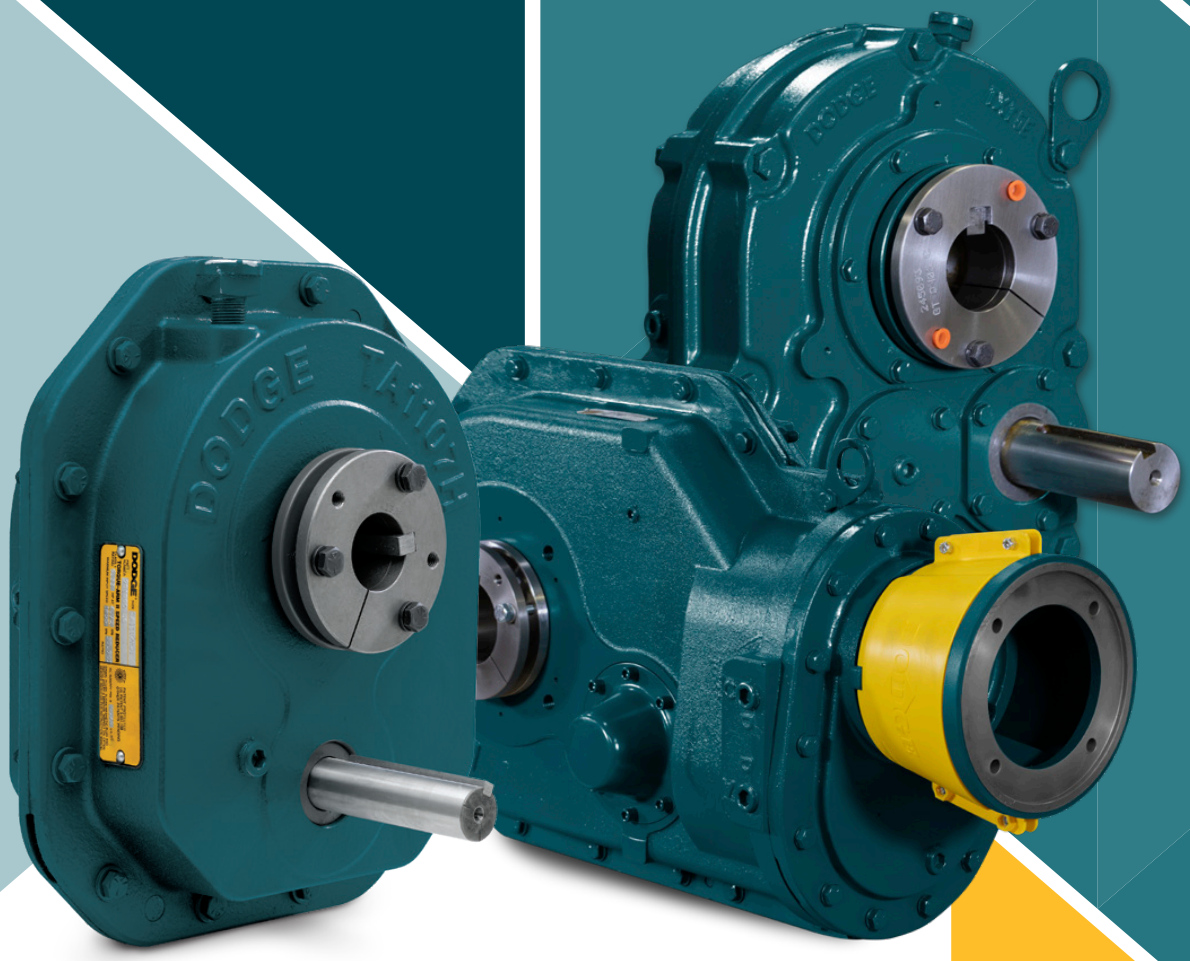
DODGE
AN RBC COMPANY

TORQUE-ARM

SHAFT-MOUNTED REDUCERS



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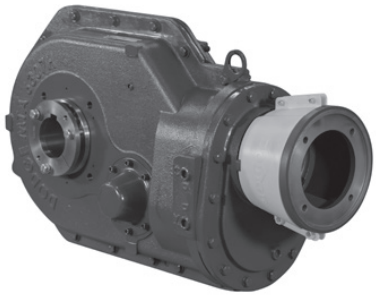
REF-1	Reference guide
G1-1	Torque-Arm II (TA II)
G2-1	Motorized Torque-Arm™ (MTA)
G3-1	Torque-Arm (TXT®, SCXT®, HXT)
G4-1	System1™
PN-1	Part number index

Reference guide



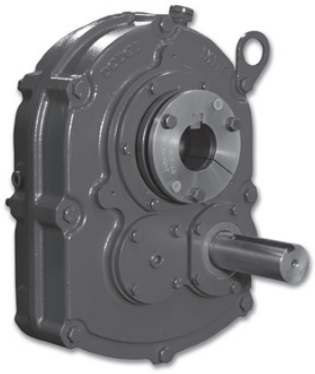
TA II shaft-mount reducers - Page G1-1

- 12 reducer sizes with modular accessories
- All reducers can be shaft-mounted, screw conveyor, vertical, and flange-mounted
- Up through 200 hp with torque ratings through 330,000 lb-in
- Standard 5:1, 9:1, 15:1, 25:1, 40:1 gear ratios equal nearly 300:1 speed reduction with V-belt drives
- Twin-tapered bushing bores: 1—7 inches
- Meets or exceeds American Gear Manufacturers Association (AGMA) standards, including minimum Class I bearing L_{10} life of 5,000 hours for an average reducer life of at least 25,000 hours
- Harsh-duty, metal-shielded sealing system with excluder lip
- Smooth, rugged Class 30 cast iron housings with pry slots
- All TA II reducers are factory-ready to accept Dodge® sensors for condition monitoring
- New 36-month/18-month warranty protection



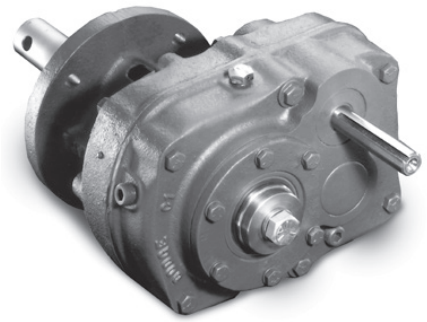
MTA shaft-mount reducers - Page G2-1

- 10 reducer sizes with modular accessories
- All reducers can be shaft-mounted, screw conveyor, vertical, and flange-mounted
- Up through 200 hp with torque ratings through 330,000 lb-in
- 12 ratios and multiple motor speeds provide a wide range of output speeds
- Available as a C-face reducer assembly or a C-face gearmotor assembly
- Also available in sizes 7—12 with an Atlas Adapter for 360—440 National Electrical Manufacturers Association (NEMA) frame foot-mounted motors
- Bushing bores through 7 inches
- Meets or exceeds AGMA standards, minimum Class I bearing L_{10} life of 5,000 hours for an average reducer life of at least 25,000 hours
- Harsh-duty, metal-shielded sealing system with excluder lip
- 36-month/18-month warranty protection
- All MTA reducers are factory-ready to accept Dodge sensors for condition monitoring



TXT shaft-mount reducers - Page G3-1

- 14 reducer sizes with modular accessories
- All reducers can be shaft-mounted, screw conveyor, vertical, and flange-mounted
- Up through 700 hp with torque ratings through 1,000,000 lb-in
- Standard 5:1, 9:1, 15:1, 25:1 gear ratios equal nearly 210:1 speed reduction with V-belt drives
- Twin-tapered bushing bores: 1—10 inches
- Meets or exceeds AGMA standards, minimum Class I bearing L_{10} life of 5,000 hours for an average reducer life of at least 25,000 hours
- Available with hydraulic motor input
- All TXT reducers are factory-ready to accept Dodge sensors for condition monitoring



SCXT screw conveyor shaft-mount reducers - Page G3-68

- Industry standard, high-quality drive mounting
- Adapter conforms to any Conveyor Equipment Manufacturers Association (CEMA) trough ends
- Rugged, high-thrust roller bearings
- Conforms to CEMA standards
- CEMA high-strength shafts, 2- and 3-bolt, 1-1/2—3-7/16 inches
- Fractional to 75 hp
- Standard ratios: 5:1, 9:1, 15:1, and 25:1
- Available with hydraulic motor input
- Vertical and incline mounting capability
- All SCXT reducers are factory-ready to accept Dodge sensors for condition monitoring



HXT shaft-mount reducers - Page G3-117

- Hydraulically powered Torque-Arm reducers with adjustable speed and torque
- Shaft-mounted or screw conveyor design for easy installation with no baseplate or alignment required
- Powered by hydraulic motors
- Ideal for remote or inaccessible locations where electric motors are not ideal
- Speed, torque, and direction controlled by hydraulic pressure and flow
- Enables variable speeds and reversible rotation
- Available with A10, A20, B30, B40, and B50 Hydroil® motors
- Hydroil reducers deliver high efficiency, quiet operation, and long life
- Hollow-shaft, taper-bushed or straight bore shaft mounting fits a wide range of shaft sizes
- Suitable for screw conveyors, feeders, and material-handling applications
- All HXT reducers are factory-ready to accept Dodge sensors for condition monitoring

Service factors

Class I - 1.0 service factor, Class II - 1.4 service factor, Class III - 2.0 service factor

Notes:

1. Crane drives are to be selected based upon the gear tooth bending strength using the numeric service factors, K_{SF}, shown in the table or by analysis such as Miner's Rule. In all cases, the pitting resistance service factor shall be a minimum of 1.0. Contact gear manufacturer for ratings.
2. Service factors for paper mill applications are applied to the nameplate rating of the electric drive motor at the motor rated base speed.
3. Anti-friction bearings only, use a service factor of 1.5 for sleeve bearings.
4. A service factor of 1.0 may be applied at the base speed of a super calendar running over a speed range of part range at constant power; the part range constant torque, where the constant power speed range is greater than 1.5 to 1.0. A service factor of 1.25 is applicable to super calendars operating over the entire speed range at constant torque or where the constant power speed range is less than 1.5 to 1.0.

Application classification

Application	Class numbers		
	Up to 3 hours per day	3—10 hours per day	Over 10 hours per day
Agitators (mixers)			
Pure liquids	I	I	II
Liquids and solids	I	II	II
Liquids - variable density	I	II	II
Blowers			
Centrifugal	I	I	II
Lobe	I	II	II
Vane	I	II	II
Brewing and distilling			
Bottling machinery	I	I	II
Brew kettles - continuous duty	II	II	II
Cookers - continuous duty	II	II	II
Mash tubs - continuous duty	II	II	II
Scale hopper - frequent starts	II	II	II
Can filling machines	I	I	II
Car dumpers	II	III	III
Car pullers	I	II	II
Clarifiers	I	I	II
Classifiers	I	II	II
Clay working machinery			
Brick press	II	III	III
Briquette machine	II	III	III
Pug mill	I	II	II
Compactors	III	III	III
Compressors			
Centrifugal	I	I	II
Lobe	I	II	II
Reciprocating - multi-cylinder	II	II	III
Reciprocating - single-cylinder	III	III	III
Conveyors - general purpose (including apron, assembly, belt, bucket, chain, flight, oven, and screw)			
Uniformly loaded or fed	I	I	II
Heavy-duty - not uniformly fed	I	II	II
Severe-duty - reciprocating or shaker	II	III	III
Cranes [1]			
Dry dock			
Main hoist	2.5	2.5	2.5
Auxiliary hoist	2.5	2.5	3.0
Boom hoist	2.5	2.5	3.0
Slewing drive	2.5	2.5	3.0
Traction drive	3.0	3.0	3.0

Service factors

Class I - 1.0 service factor, Class II - 1.4 service factor, Class III - 2.0 service factor

Application classification

Application	Class numbers		
	Up to 3 hours per day	3—10 hours per day	Over 10 hours per day
Cranes [1] (continued)			
Container			
Main hoist	3.0	3.0	3.0
Boom hoist	2.0	2.0	2.0
Trolley drive			
Gantry drive	3.0	3.0	3.0
Traction drive	2.0	2.0	2.0
Mill duty			
Main hoist	3.5	3.5	3.5
Auxiliary	3.5	3.5	3.5
Bridge travel	2.5	3.0	3.0
Trolley travel	2.5	3.0	3.0
Industrial duty			
Main	2.5	2.5	3.0
Auxiliary	2.5	2.5	3.0
Bridge travel	2.5	3.0	3.0
Trolley travel	2.5	3.0	3.0
Crusher			
Stone or ore	III	III	III
Dredges			
Cable reels	II	II	II
Conveyors	II	II	II
Cutter head drives	III	III	III
Pumps	III	III	III
Screen drives	III	III	III
Stackers	II	II	II
Winches	II	II	II
Elevators			
Bucket	I	II	II
Centrifugal discharge	I	I	II
Escalators	I	I	II
Freight	I	II	II
Gravity discharge	I	I	II
Extruders			
General	II	II	II
Plastics			
Variable speed drive	III	III	III
Fixed speed drive	III	III	III
Rubber			
Continuous screw operation	III	III	III
Intermittent screw operation	III	III	III
Fans			
Centrifugal	I	I	II
Cooling towers	III	III	III
Forced draft	II	II	II
Induced draft	II	II	II
Industrial and mine	II	II	II
Feeders			
Aprons	I	II	II
Belt	I	II	II
Disc	I	I	II
Reciprocating	II	III	III
Screw	I	II	II

Service factors

Class I - 1.0 service factor, Class II - 1.4 service factor, Class III - 2.0 service factor

Application classification

Application	Class numbers		
	Up to 3 hours per day	3—10 hours per day	Over 10 hours per day
Food industry			
Cereal cooker	I	I	II
Dough mixer	II	II	II
Meat grinders	II	II	II
Slicers	I	II	II
Generators and exciters	II	II	II
Hammer mills	III	III	III
Hoists			
Heavy-duty	III	III	III
Medium-duty	II	II	II
Skip hoist	II	II	II
Laundry tumblers	II	II	II
Laundry washers	II	II	III
Lumber industry			
Barkers			
Spindle feed	II	II	II
Main drive	III	III	III
Conveyors			
Burner	II	II	II
Main or heavy-duty	II	II	II
Main log	III	III	III
Re-saw, merry-go-round	II	II	II
Slab	III	III	III
Transfer	II	II	II
Chains			
Floor	II	II	II
Green	II	II	III
Cut-off saws			
Chain	II	II	III
Drag	II	II	III
Debarking drums	III	III	III
Feeds			
Edger	II	II	II
Gang	II	III	III
Trimmer	II	II	II
Log deck	III	III	III
Log-hauls - incline (well type)	III	III	III
Log turning devices	III	III	III
Planer feed	II	II	II
Planer tilting hoists	II	II	II
Rolls - live-off bearing (roll cases)	III	III	III
Sorting table	II	II	II
Tipple hoist	II	II	II
Transfers			
Chain	II	II	III
Craneway	II	II	III
Tray drives	II	II	II
Veneer lathe drives	II	II	II
Metal mills			
Draw bench carriage and main drive	II	II	II
Runout table			
Non-reversing			
Group drives	II	II	II
Individual drives	III	III	III
Reversing	III	III	III

Service factors

Class I - 1.0 service factor, Class II - 1.4 service factor, Class III - 2.0 service factor

Application classification

Application	Class numbers		
	Up to 3 hours per day	3—10 hours per day	Over 10 hours per day
Metal strip processing machinery			
Slab pushers	II	II	II
Shears	III	III	III
Wire drawing	II	II	II
Wire winding machine	II	II	II
Bridles	II	II	II
Coilers and uncoilers	I	I	II
Edge trimmers	I	II	II
Flatteners	II	II	II
Loopers (accumulators)	I	I	I
Pinch rolls	II	II	II
Scrap choppers	II	II	II
Shears	III	III	III
Slitters			
Mills, rotary type			
Ball and rod			
Spur ring gear	III	III	III
Helical ring gear	II	II	II
Direct connected	III	III	III
Cement kilns	II	II	II
Dryers and coolers	II	II	II
Paper mills [2]			
Agitator (mixer)	II	II	II
Agitator for pure liquors	II	II	II
Barking drums	III	III	III
Barkers - mechanical	III	III	III
Beater	II	II	II
Breaker stack	II	II	II
Calendar [3]	II	II	II
Chipper	III	III	III
Chip feeder	II	II	II
Coating rolls	II	II	II
Conveyors			
Chip, bark, chemical	II	II	II
Log (including slab)	III	III	III
Couch rolls	II	II	II
Cutter	III	III	III
Cylinder molds	II	II	II
Dryers [3]			
Paper machine	II	II	II
Conveyor type	II	II	II
Embosser	II	II	II
Extruder	II	II	II
Fourdrinier rolls (includes lump breaker, dandy roll, wire turning, and return rolls)	II	II	II
Jordan	II	II	II
Kiln drive	II	II	II
Mt. Hope roll	II	II	II
Paper rolls	II	II	II
Platter	II	II	II
Presses - felt and auction	II	II	II
Pulper	III	III	III
Pumps - vacuum	II	II	II
Reel (surface type)	II	II	II

Service factors

Class I - 1.0 service factor, Class II - 1.4 service factor, Class III - 2.0 service factor

Application classification

Application	Class numbers		
	Up to 3 hours per day	3—10 hours per day	Over 10 hours per day
Paper mills [2] (continued)			
Screens			
Chip	II	II	II
Rotary	II	II	II
Vibrating	III	III	III
Size press	II	II	II
Super calendar [4]	II	II	II
Thickener (AC motor)	II	II	II
Thickener (DC motor)	II	II	II
Washer (AC motor)	II	II	II
Washer (DC motor)	II	II	II
Wind and unwind stand	I	I	I
Winders (surface type)	II	II	II
Yankee dryers [3]	II	II	II
Plastic Industry - primary processing			
Intensive internal mixers			
Batch mixers	III	III	III
Continuous mixers	II	II	II
Batch drop mill - 2 smooth rolls	II	II	II
Continuous feed, holding and blend mill	II	II	II
Calendars	II	II	II
Plastic industry - secondary processing			
Blow molders	II	II	II
Coating	II	II	II
Film	II	II	II
Pipe	II	II	II
Pre-plasticizers	II	II	II
Rods	II	II	II
Sheet	II	II	II
Tubing	II	II	II
Pullers - barge haul	II	II	II
Pumps			
Centrifugal	I	I	II
Proportioning	II	II	II
Reciprocating			
Single acting, 3 or more cylinders	II	II	II
Double acting, 2 or more cylinders	II	II	II
Rotary			
Gear type	I	I	II
Lobe	I	I	II
Vane	I	I	II
Rubber Industry			
Intensive internal mixers			
Batch mixers	III	III	III
Continuous mixers	II	II	II
Mixing mill			
2 smooth rolls	II	II	II
1 or 2 corrugated rolls	III	III	III
Batch drop mill - 2 smooth rolls	II	II	II
Cracker warmer - 2 roll, 1 corrugated roll	III	III	III
Cracker - 2 corrugated rolls	III	III	III
Holding, feed, and blend mill - 2 rolls	II	II	II
Refiner - 2 rolls	II	II	II
Calendars	II	II	II

Determining service class

Class I - 1.0 service factor, Class II - 1.4 service factor, Class III - 2.0 service factor

Application classification

Application	Class numbers		
	Up to 3 hours per day	3—10 hours per day	Over 10 hours per day
Sand muller	II	II	II
Sewage disposal equipment			
Bar screens	II	II	II
Chemical feeders	II	II	II
Dewatering screens	II	II	II
Scum breakers	II	II	II
Slow or rapid mixers	II	II	II
Sludge collectors	II	II	II
Thickener	II	II	II
Vacuum filters	II	II	II
Screens			
Air washing	I	I	II
Rotary - stone or gravel	II	II	II
Traveling water intake	I	I	I
Screw conveyors			
Uniformly loaded or fed	I	I	II
Heavy-duty	I	II	II
Sugar industry			
Beet slicer	III	III	III
Cane knives	II	II	II
Crushers	II	II	II
Mills (low-speed end)	III	III	III
Textile industry			
Batchers	II	II	II
Calendars	II	II	II
Cards	II	II	II
Dry cans	II	II	II
Dyeing machinery	II	II	II
Looms	II	II	II
Mangles	II	II	II
Nappers	II	II	II
Pads	II	II	II
Slashers	II	II	II
Soapers	II	II	II
Spinners	II	II	II
Tenter frames	II	II	II
Washers	II	II	II
Winders	II	II	II

1. Because crane drive selections may require a service factor, greater than 2.0, class numbers are not applicable. Crane drives are to be selected based upon the gear tooth bending strength using the numeric service factors, shown in the table or by analysis such as Miner's Rule. In all cases, the pitting resistance service factor shall be a minimum of 1.0. Contact gear manufacturer for ratings.
2. The class numbers listed in the table for paper mill applications are consistent with those shown in Technical Association of Pulp and Paper Industry (TAPPI) Technical Information Sheet 0406-18-1967: Service Factors for Gears on Major Equipment in the Paper and Pulp Industry.
3. Anti-friction bearings only.
4. A Class number of I may be applied at the base speed of a super calendar running over a speed range of part range at constant power; the part range constant torque, where the constant power speed range is greater than 1.5 to 1.0. A Class number of II is applicable to super calendars operating over the entire speed range at constant torque or where the constant power speed range is less than 1.5 to 1.0.

Torque-Arm II (TA II)

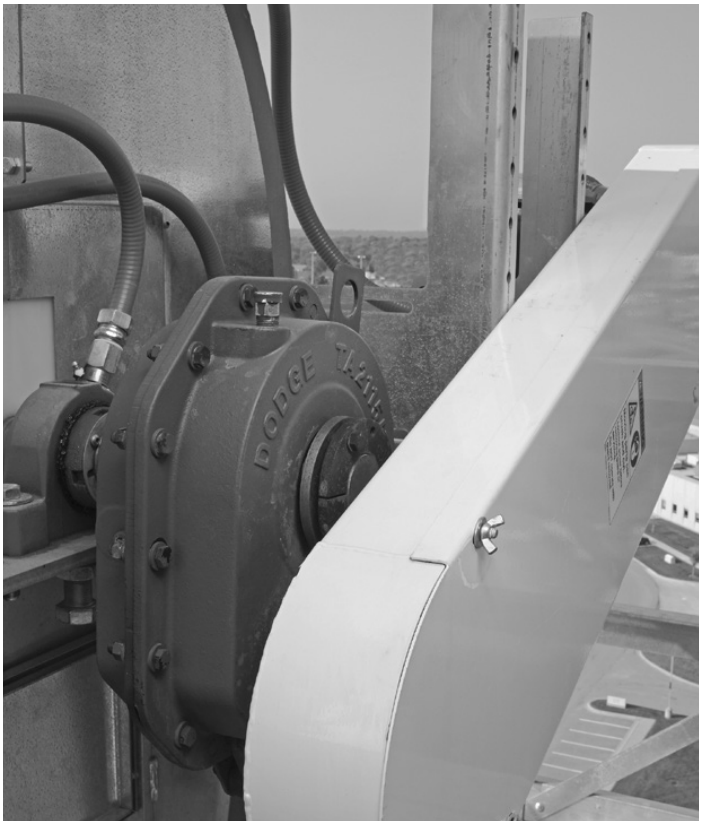
G1-1 TA II
G1-2 Features and benefits
G1-7 Specifications
G1-8 Nomenclature
G1-9 Selection procedures
G1-28 Selection and dimensions
G1-28 TA0107L
G1-36 TA1107H
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Features and benefits
TA II



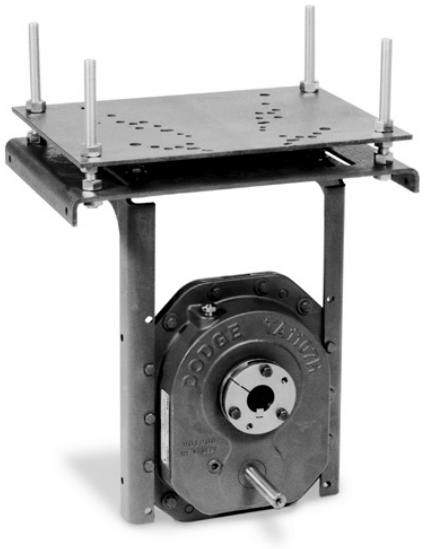
Since 1949, Torque-Arm (TA) products have proven dependability with more than three million units in service throughout the world. TA reducers are the standard of the industry. That legacy continues with the TA II which offers patented innovations, heavy-duty features, and high leading torque and horsepower ratings.



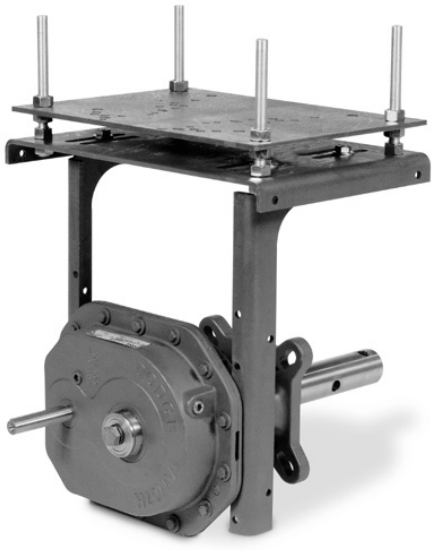




Shaft-mount speed reducers



Shaft-mounted reducer with twin-tapered bushings



Screw conveyor drive with adapter drive

Improved features and capabilities include:

- 12 reducer sizes with modular accessories
- Meets or exceeds AGMA design standards including 5,000 hour L_{10} bearing life, 25,000 average life
- Conformance to ATEX directive 94/9/EC guidelines
- The only shaft-mount reducer backstop that works with extreme pressure (EP) additives
- Patented harsh-duty sealing system with filter breather
- Single steel motor mount that works for all positions and motor heights
- 40:1 ratio added to expand standard product offering of 5, 9, 15, and 25:1
- Patented twin-tapered bushing systems to accommodate shafts from 1 inch through 7 inches
- Complete Metric TA II product line available with metric reducers and bushings
- All reducers can be shaft-mounted, screw drive conveyor, vertical, and flange-mounted

The high ratings of the TA II line are the result of the extended gear centers, larger diameter gears, and optimized gear tooth geometry. The backstop design features centrifugal lift-off sprags for extended life and can be used with lubricants containing EP additives.

In addition, TA II has a patented sealing system that uses a harsh-duty oil seal protected by a metal excluder seal with rubbing lip—making it a perfect fit for demanding industries such as aggregate, mining, cement, asphalt, grain, and ethanol.

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

Its patented twin-tapered bushing system—in standard length, short shaft, and metric versions—offers all the features of our standard twin-tapered TA bushing design which are unique to Dodge, while allowing the replacement of straight bore or single bushed reducers.

Shaft-mount speed reducers

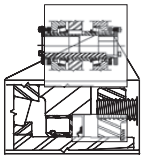
Rugged heavy-duty design engineered for extended operating life

- AGMA standard design providing minimum average bearing life (L_{50}) of 25,000 hours at 1.0 service factor
- Manufactured with heavy-duty tapered roller bearings to withstand heavy shock loads
- Heavy-duty gearing ensures high efficiency and 200 percent overload starting capacity at 1.0 service factor

Harsh-duty seals to withstand any environment

- Dual sealing systems on all shafts consist of metal reinforced oil seals that are protected by an external metal shield and excluder lip
- Oil seals have an operating temperature range of -40 °F to 300 °F / -40 °C to 150 °C
- Compatible with both mineral and synthetic lubricants
- Easy to install, optional v-ring seals available for severe applications





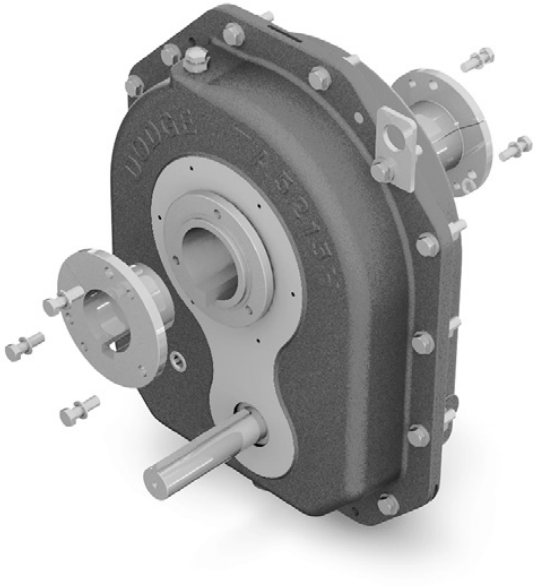


Engineered for extended operating life

- Manufactured with tapered roller bearings to withstand high shock loads
- Designed to exceed AGMA standards, TA II has twice the bearing life compared to other manufacturers
- 200 percent overload starting capacity ensures high efficiency and reliability

Twin-tapered bushings for easy installation and removal

- System features two fully split, ductile iron, 8 degree taper bushings that provide sturdy concentric grip on the shaft
- Eliminates fretting corrosion, which can cause difficult removal
- No special tools required for installation or removal
- Full length key ensures maximum torque transmission
- Available in standard and short shaft designs to allow for easy replacement of straight bore and single bushed reducers



Shaft-mount speed reducers

Belt guard package
Allows for multiple height adjustments, featuring a lift-off cover construction. Belt guards provide enhanced safety and easy maintenance access.

Motor mount
Provides stable mounting between the motor and reducer to minimize overhung load and withstand heavy shock loading.

Hydra-Lock breather
To be used in humid or dusty environments, this optional breather's check valve system prevents ambient conditions and improves positive maintenance practices.



Twin-tapered bushing
Easy on, easy off assembly providing reliable support on both sides of reducer. Available for shorter shafts when replacing a single bushed or straight bore reducer.

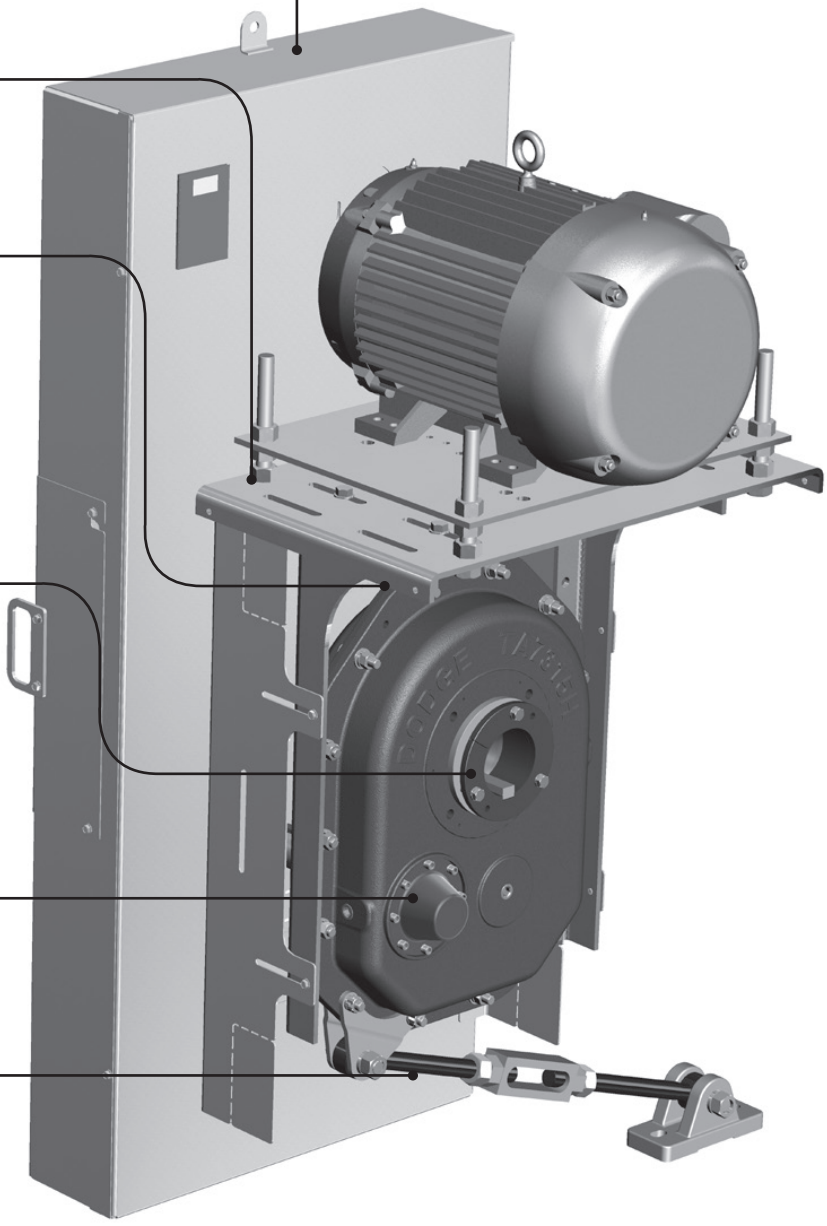


Backstop
Safety feature that prevents reverse rotation when system stops. Compatible with standard and EP lubricants without requiring external lubrication.

Tie rod kit
Provides a safety link between reducer and structure to prevent system rotation. Standard rods and turnbuckles are zinc coated for corrosion resistance.

Bushing covers
Reducers are pre-drilled and tapped to accept Dodge ABS polymer covers. Solid and pre-split versions available to accommodate both sides of reducers.





Screw conveyor speed reducer accessories

Belt guard package
Allows for multiple height adjustments, featuring a lift-off cover construction.

Motor mount
Provides stable mounting between the motor and reducer to minimize overhung load and withstand heavy shock loading.

Hydra-Lock breather
To be used in humid or dusty environments, this optional breathers check valve system prevents ambient conditions and improves positive maintenance practices.

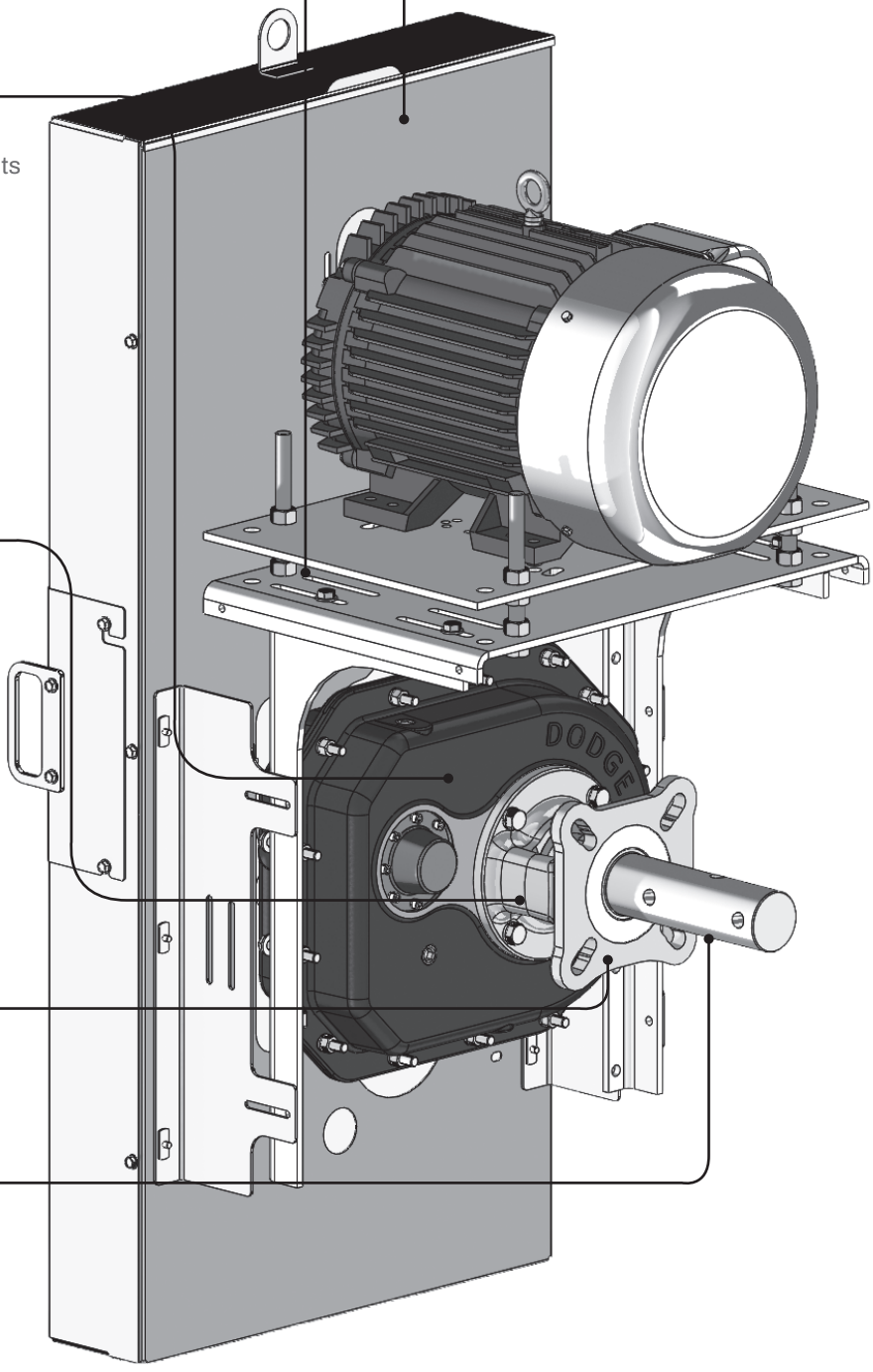


Adjustable packing kit
Additional kit to bolt on the CEMA adapter in hostile environments. Packing can be retightened and replaced to extend life.



CEMA adapter
Featuring double lip seals on both surfaces. The adapter extends operating life and provides stable mounting to screw conveyors.

CEMA driveshafts
Standard three-hole screw conveyor driveshafts are the standard for higher torque applications.



Specifications
TA II

TA II reducers

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

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

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

Reducer bearings shall be tapered roller bearings meeting or exceeding AGMA standards, with a 25,000-hour average life and a 5,000-hour L_{10} life per AGMA Class I.

All seals shall be of the lip, spring loaded type, made of a premium harsh-duty, heat resistant material. A metal excluder seal with rubber lip is external to the standard oil seal.

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

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

Screw conveyor drives

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

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

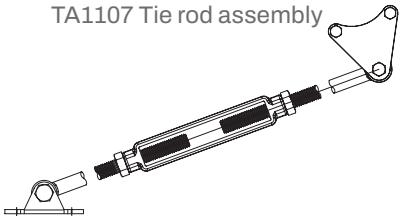
The drive shall conform to CEMA standards.

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

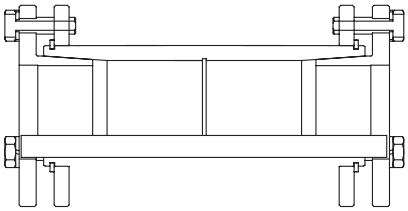
Nomenclature
TA II

Shaft-mount reducer

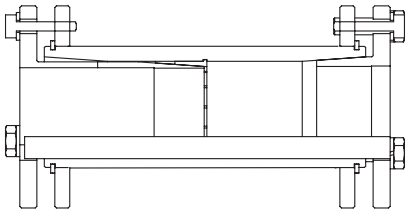
TA1107RA
TA1107 Tie rod assembly



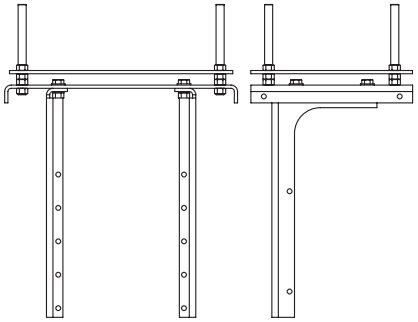
TA1107TB x 1-7/16
TA1107TB x 1-7/16 Twin-tapered bushing kit for standard length driven shaft



TA1107TBS x 1/7-16
TA1107TB x 1-7/16 Twin-tapered bushing kit for short driven shaft



TA1107MM
TA1107MM Motor mount assembly



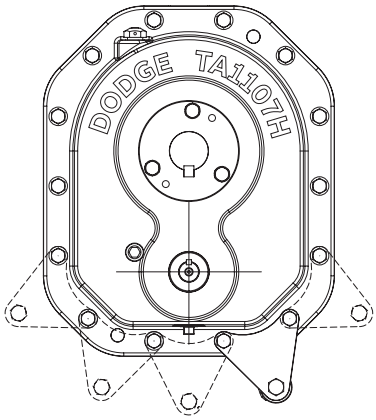
Basic TA II reducer

TA TA II reducer

1 Case size 1

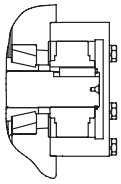
107 AGMA Code reference and traditional bore size

H Heavy-duty rating and extended bore size

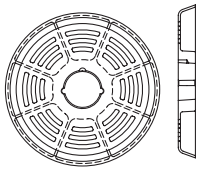


Other accessories

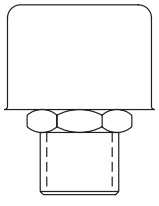
TA1107BS
Backstop assembly



TA4207CF
Cooling fan assembly

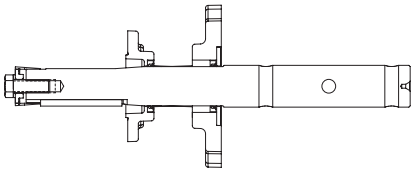


TA1-4 FB kit
Filter breather kit

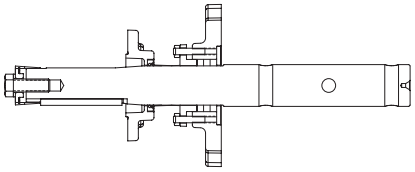


Screw conveyor drive

TA1107SCA
TA1107SCA Screw conveyor standard adapter and hardware kit



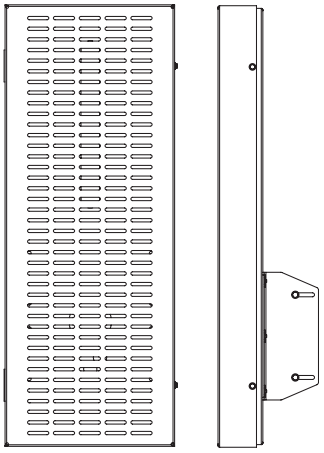
TA1107SCP Kit
TA11070SCP
Adjustable packing kit



TA1107SCS x 1-7/16
TA11070SCS Screw conveyor drive shaft x 1-7/17” diameter



TA1107BG
TA1107BG Belt guard



Selection procedures
TA II

When to use easy selection

The easy selection tables for TA II reducers are for electric motor selections up to 400 horsepower with output speeds up to 400 rpm, using AGMA recommended application class numbers. For extreme shock or high energy loads which must be absorbed, as when stalling; for a power source other than an electric motor; or for extreme ambient temperatures or oversized equipment, consult Dodge application engineering, +1 864 284 5700.

How to select

Step 1: Determine class of service

See “Application classification” table, page REF-3, to determine load classification for applications under normal conditions. Find the application type and duty cycle.

Class I - Steady load not exceeding motor horsepower 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 two times the motor horsepower rating. If it exceeds this amount it should be divided by two and the result used in the selection table instead of the motor horsepower rating.

Class II - Steady load not exceeding motor horsepower 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 times the motor horsepower 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 horsepower 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 four times the motor horsepower rating. If it exceeds this amount it should be divided by four and the result used in the selection table instead of the motor horsepower rating.

Step 2: Determine reducer size

From the easy selection, Class I, II, or III, tables, pages G1-14 through G1-27, find the reducer size for the application horsepower and output speed.

Note: For applications where fan cooling is not acceptable, use the easy selection tables with an increased Class of Service number. Where more than one reducer selection is listed, the most economical ratio is generally listed first.

See “Engineering and technical” pages for maximum input speed, output speed, and thrust capacity ratings for TA II reducers.

Step 3: Compare hollow shaft bore with the size of the driven shaft

All TA II reducers require bushings to mount reducer to driven shaft. Refer to reducer pages for available bushings. If the driven shaft is larger than the bore of the selected reducers, the shaft must be machined to the proper size, or select a larger reducer. Check driven shaft and key for strength.

Step 4: Check dimensions

See “Selection and dimensions" pages for reducer dimensions, weights, part numbers and tie rod mounting positions. See “Engineering and technical” pages for reducer mounting positions.

Step 5: Select a belt drive arrangement

From the sheave ratio information, page G1-131, select a sheave ratio for the belt drive. The reducer sheave pitch diameter (PD), should not be smaller than the mini mum sheave diameter shown in the selection tables. Note: Mount the sheave as close as possible to the reducer to minimize the effect of overhung load on the reducer.

See our Mechanical Drive Components catalog to select sheaves, bushings and belts for the appropriate belt drive.

Step 6: Select accessories

See “Selection and dimensions” pages for description, dimensions, weights and part numbers for accessories for the TA II reducer selected:

- Tie rod assembly
- Bushing kit
- Motor mount
- Backstop assembly
- Belt guard
- Cooling fan
- Screw conveyor adapter
- Adjustable packing kit
- Driveshaft
- Harsh-duty breathers
- Vertical breather kit

Easy selection

Method for electric motors for TA II reducer and screw conveyor drive reducer applications

Note: Important information

TA II reducers are stocked without a TA rod assembly. Order a tie rod assembly as a separate item.

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

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

TA II backstop—For best life, select reducer gear ratios which exceed input shaft speeds required for backstop sprag lift-off. See page G1-112 for backstop lift-off speeds.



WARNING

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

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

Shaft-mount reducer application:

A 10 horsepower 1,750 rpm motor is used to drive a belt conveyor moving sand at 70 rpm. The conveyor is uniformly loaded and operates 16 hours per day. The head pulley shaft diameter is 2-3/16 inches. The user specifications call for a means of holding the conveyor from moving backwards.

Step 1:

Determine class of service - From the table on page REF-3, locate the appropriate application, “belt conveyors, uniformly loaded, or fed” for over 10 hours per day. This load is classified as a Class II application.

Step 2:

Determine reducer size - From Class II Selection, page G1-19, find the column for 10 horsepower and read down to 70 rpm. A reducer size TA3203H25 or TA3203H15 reducer is the correct selection. See Engineering/Technical pages to compare input and output speed and overhung load application requirements with reducer ratings.

Step 3:

Compare hollow shaft bore of a size TA3203H25 or TA3203H15 with the head pulley shaft diameter. Per page G1-53, 2-3/16 inches is a bore available for this size of reducer. It will work in this application. Be sure to check the driven shaft and key for strength.

Step 4:

Check dimensions and weights. See “Selection and dimensions" pages for reducer dimensions, weights, part numbers and other pertinent drive dimensions, as well as information on TA rod mounting positions. See “Engineering and technical” pages for information on reducer mounting positions.

Step 5:

Select a belt drive - From the sheave ratio information, page G1-131, select a belt drive ratio for the conveyor speed of 70 rpm. Then select a belt drive from the Dodge Mechanical Drive Components catalog, that meets the customer’s needs (e.g., service factor and minimum number of belts) and preferences (e.g., belt style, bushing mounting style, etc.) The sheave diameters must not be smaller than the minimum diameters shown in the selection tables.

Step 6: Select accessories

Refer to the selection and dimensions pages for the chosen reducer size to pick out the correct accessories for your application. Accessories may include a backstop assembly, a motor mount, belt guard, twin-taper bushing kits, or screw conveyor parts.

TA3203BS Backstop assembly, to hold the conveyor from moving backwards.
TA3203MM Motor mount assembly, for top mounting the motor to the reducer.
TA3203BG - Position B Belt guard, to cover and protect the rotating belt drive.

Easy selection

Method for electric motors for TA II reducer and screw conveyor drive reducer applications

Screw conveyor drive reducer application

A five horsepower 1,750 rpm motor is used to drive a heavy-duty screw conveyor moving at 72 rpm. The conveyor runs 10 hours per day in a local feed mill conveying grain. The user needs a reducer drive compatible with a CEMA 12 inch diameter screw and a 2-7/16 inches diameter driveshaft.

Step 1: Determine class of service

From the table on page REF-3, locate the appropriate application, “conveyors, general purpose; screw conveyor - heavy-duty, not uniformly loaded” for 3 to 10 hours per day. This load is classified as a Class II application.

Step 2: Determine reducer size

From Class II selection table, page G1-19, find the column for five horsepower and read down to 72 rpm. A TA1107H25 reducer is the correct selection. See “Engineering and technical” pages to compare input and output speed and overhung load application requirements with reducer ratings.

Step 3: Check dimensions

See “Selection and dimensions” pages for reducer dimensions, weights, part numbers and other pertinent drive dimensions. See “Engineering and technical” pages for information on reducer mounting positions.

Step 4: Select driveshaft to fit screw diameter.

See “Selection and dimensions" page G1-39. Here we verify that a 2-7/16 inches diameter driveshaft is compatible with a 12 inch diameter screw.

Step 5: Select a belt drive

From the sheave ratio information, page G1-131, select a belt drive ratio for the conveyor speed of 70 rpm. Then select a belt drive, from the Dodge Mechanical Drive Components catalog, that meets the customer’s needs (service factor, minimum number of belts) and preferences (belt style, bushing mounting style, etc.) The sheave diameters must not be smaller than the minimum diameters shown in the selection tables.

Step 6: Select accessories

See “Selection and dimensions” pages to pick out screw conveyor accessories for this application.

See **TA1107SCA Adapter and hardware kit** to mount the reducer to the trough end of screw conveyor.
See **TA1107SCP Adjustable packing kit** to add additional sealing protection to the reducer drive.

Application classification and class numbers TA II shaft-mount speed reducers

For Application Class and Service, please see pages REF-3 through REF-9.

Selection

TA II shaft-mount reducers

This is a reference sheet for quick selection and specification of TA II shaft-mount reducers. Use it to identify the information needed to make an accurate selection with a step-by-step selection format for choosing reducers, accessories and belt drive. Use this

Name _____ Company name _____

Phone number _____ Fax number _____

Application data

Type of driven equipment _____

Hours of service per day _____ Class of service _____

Type of load Uniform _____ Moderate _____ Shock _____

Motor type Horsepower (hp) _____ Speed (rpm) _____ Frame size _____ Shaft size _____

Speed (rpm) of driven equipment _____ Driven shaft size _____

Type of reducer mounting Horizontal _____ Vertical: Input up _____

Input down Incline (degree of) _____

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 rotation that meets application horsepower (hp) and driven speed (rpm) requirements

Twin-taper-bushed _____ Short shaft twin-tapered _____

Step 3 —Select reducer accessories required for application

Motor mount _____ Tie rod _____ Backstop _____

Belt guard _____ Cooling fan _____

Bushing cover _____ Harsh-duty breather _____

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

TA II screw conveyor drive reducers

This is a handy reference sheet for quick selection and specification of Dodge screw conveyor drive reducers. Use it to identify information needed to make an accurate selection with a step-by-step selection format for choosing reducer, accessories and V-drive. Use this page to make your own selections or send this form, with application data to contact Dodge Application Engineering at +1 284 5700 or local Sales Engineer for assistance.

Name _____ Company name _____

Phone number _____ Fax number _____

Application data

Type of driven equipment _____

Hours of service per day _____ Class of service _____

Type of load Uniform _____ Moderate _____ Shock _____

Motor type Horsepower (hp) _____ Speed (rpm) _____ Frame size _____ Shaft size _____

Screw conveyor speed (rpm) _____

Driveshaft diameter and type _____

Adapter type _____

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 rotation that meets application horsepower (hp) and driven speed (rpm) requirements

_____

Step 3 —Select driveshaft with diameter to fit screw size _____

Determine type of driveshaft needed 3-hole standard _____ 3-hole stainless _____

Step 4 —Select adapter Standard _____

Adjustable packing kit _____

Step 5 —Select accessories required for application _____

Motor mount _____ Belt guard _____ Cooling fan _____

Bushing cover _____ Harsh-duty breather _____ Other _____

V-belt drive specification

Service factor _____ V-belt drive ratio needed _____

Belt center distance _____ Type of belt desired _____

Driver: Shaft diameter _____ Driven: Shaft diameter _____

Sheave _____ Sheave _____

Bushing _____ Bushing _____

Belts Size _____ Quantity _____

Class I TA II

Easy selection

Class I - 1.0 service factor

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
1/4	4—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	20—400	TA0107L05	6.9	—
1/3	4	TA1107H31	5.0	—
		TA1107H25	6.4	—
		TA1107H15	5.5	—
	5—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
1/2	4	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.3	—
	5—7	TA1107H31	5.0	—
		TA1107H25	6.4	—
		TA1107H15	5.5	—
	8—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
3/4	4—6	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.3	—
3/4	7—11	TA1107H31	5.0	—
		TA1107H25	6.4	—
		TA1107H15	5.5	—
	12—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
1	4—5	TA3203H32	4.6	—
		TA3203H25	4.6	—
		TA3203H15	4.6	—
	6—8	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.3	—
	9—15	TA1107H31	5.0	—
		TA1107H25	6.4	—
		TA1107H15	5.5	—
	16—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
1-1/2	4—5	TA4207H40	5.0	—
		TA4207H25	5.5	—
		TA4207H15	8.1	—
	6—7	TA3203H32	4.6	—
		TA3203H25	4.6	—
		TA3203H15	4.6	—
	8—12	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.3	—
	13—23	TA1107H31	4.9	—
		TA1107H25	6.2	—
		TA1107H15	5.5	—
1-1/2	24—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
2	4	TA5215H40	6.8	—
		TA5215H25	6.1	—
		TA5215H15	7.1	—
	5—6	TA4207H40	5.0	—
		TA4207H25	5.5	—
		TA4207H15	8.1	—
	7—10	TA3203H32	4.6	—
		TA3203H25	4.6	—
		TA3203H15	4.6	—
	11—16	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.3	—
	17	TA1107H31	4.8	—
		TA2115H25	3.3	—
		TA1107H15	5.4	—
	18—32	TA1107H31	4.8	—
		TA1107H25	5.9	—
		TA1107H15	5.3	—
	33—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
3	4—6	TA5215H40	6.8	—
		TA5215H25	6.1	—
		TA5215H15	7.1	—
	7—10	TA4207H40	5.0	—
		TA4207H25	5.5	—
		TA4207H15	8.1	—

~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Class I TA II

Easy selection

Class I - 1.0 service factor

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
3	11—15	TA3203H32	4.6	—
		TA3203H25	4.6	—
		TA3203H15	4.6	—
	16—26	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.2	—
	27—50	TA1107H31	4.6	—
		TA1107H25	5.7	—
		TA1107H15	5.2	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	
5	4	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	5—6	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.4	—
	7—10	TA5215H40	6.8	—
		TA5215H25	6.1	—
		TA5215H15	7.1	—
	11—16	TA4207H40	5.0	—
		TA4207H25	5.5	—
		TA4207H15	8.1	—
	17—25	TA3203H32	4.4	—
		TA3203H25	4.5	—
		TA3203H15	4.5	—
	26	TA3203H32	4.2	—
		TA2115H25	3.2	—
		TA2115H15	3.1	—
	27—46	TA2115H33	3.6	—
		TA2115H25	3.2	—
		TA2115H15	3.1	—
	47—50	TA1107H31	4.4	—
		TA1107H25	5.4	—
		TA1107H15	4.9	—
	51—80	TA1107H25	5.4	—
		TA1107H15	4.9	—
	81—89	TA1107H15	4.6	—
		TA1107H09	7.7	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
7-1/2	4	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	5—6	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	7—9	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.4	—
	10—15	TA5215H40	6.8	—
		TA5215H25	6.1	—
		TA5215H15	7.1	—
	16—25	TA4207H40	4.8	—
		TA4207H25	5.4	—
		TA4207H15	7.9	—
	26—39	TA3203H32	4.2	—
		TA3203H25	4.4	—
		TA3203H15	4.4	—
	40—50	TA2115H33	3.2	—
		TA2115H25	3.1	—
		TA2115H15	3.2	—
	51—72	TA2115H25	3.1	—
		TA2115H15	3.6	—
	73—80	TA1107H25	5.2	—
		TA1107H15	4.7	—
	81—89	TA1107H15	4.6	—
		TA1107H09	7.7	—
	90—120	TA1107H15	4.6	—
		TA1107H09	7.5	—
		TA1107H05	12.5	—
	121—145	TA1107H09	7.1	—
		TA1107H05	11.2	—
	146—163	TA0107L09	4.8	—
		TA1107H05	10.3	—
	164—200	TA0107L09	4.7	—
		TA0107L05	7.4	—
	201—400	TA0107L05	6.9	
10	4	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.2	—
	5	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	6—8	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	9—12	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.4	—
	13—20	TA5215H40	6.7	—
		TA5215H25	6.0	—
		TA5215H15	7.0	—

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
10	21—32	TA4207H40	4.7	—
		TA4207H25	5.2	—
		TA4207H15	7.7	—
	34—50	TA3203H32	4.1	—
		TA3203H25	4.3	—
		TA3203H15	4.3	—
	51—55	TA3203H25	4.2	—
		TA3203H15	4.2	—
	56—80	TA2115H25	3.1	—
		TA2115H15	3.6	—
	81—89	TA2115H15	3.7	—
		TA2115H09	6.1	—
	90—100	TA2115H15	3.7	—
		TA2115H09	6.2	—
		TA2115H05	6.5	—
	101	TA1107H15	4.5	—
		TA2115H09	6.2	—
		TA2115H05	6.5	—
	102—118	TA1107H15	4.5	—
		TA1107H09	7.4	—
		TA2115H05	6.6	—
	119—120	TA1107H15	4.4	—
		TA1107H09	7.1	—
		TA1107H05	11.2	—
	121—200	TA1107H09	7.1	—
		TA1107H05	11.2	—
	201—276	TA1107H05	9.1	—
	277—400	TA0107L05	5.8	—
15	4	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	5—6	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.2	—
	7—8	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	9—13	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	14—18	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.3	—
	19—32	TA5215H40	6.5	—
		TA5215H25	5.9	—
		TA5215H15	6.8	—
	33—50	TA4207H40	4.5	—
		TA4207H25	5.0	—
		TA4207H15	7.3	—
	51—53	TA4207H25	4.7	—
		TA4207H15	6.8	—

~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Class I TA II

Easy selection

Class I - 1.0 service factor

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
15	54—80	TA3203H25	4.1	—
		TA3203H15	4.2	—
	81—89	TA3203H15	4.0	—
		TA3203H09	5.2	—
	90—92	TA3203H15	4.0	—
		TA3203H09	5.3	—
		TA3203H05	11.0	—
	93—120	TA2115H15	3.7	—
		TA2115H09	6.2	—
		TA3203H05	10.4	—
	121—143	TA2115H09	6.1	—
		TA3203H05	7.7	—
	144—200	TA2115H09	6.5	—
		TA2115H05	6.4	—
	201—400	TA2115H05	6.0	—
20	4	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.7	—
	5—6	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	7—8	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.2	—
	9—11	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	12—18	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	19—25	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.3	—
	26—45	TA5215H40	6.4	—
		TA5215H25	5.7	—
		TA5215H15	6.7	—
	46—50	TA4207H40	4.3	—
		TA4207H25	4.7	—
		TA4207H15	7.0	—
	51—75	TA4207H25	4.7	—
		TA4207H15	6.8	—
	76—80	TA4207H25	4.4	—
		TA3203H15	4.1	—
	81—89	TA3203H15	4.0	—
		TA3203H09	5.2	—
	90—103	TA3203H15	4.0	—
		TA3203H09	5.4	—
		TA4207H05	9.9	—
	104—105	TA4207H15	6.1	—
		TA3203H09	5.4	—
		TA4207H05	9.6	—
20	106—120	TA4207H15	6.1	—
		TA3203H09	5.6	—
		TA3203H05	8.6	—
	121—141	TA3203H09	5.7	—
		TA3203H05	7.7	—
	142—200	TA2115H09	6.5	—
		TA3203H05	7.2	—
	201—238	TA3203H05	7.0	—
	239—400	TA2115H05	5.7	—
25	4	TDT1425 †	15.0	—
	5	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.7	—
	6—7	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	8—10	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.2	—
	11—15	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	16—23	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	24—32	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.3	—
	33—50	TA5215H40	6.3	—
		TA5215H25	5.6	—
		TA5215H15	6.5	—
	51—58	TA5215H25	5.4	—
		TA5215H15	6.3	—
	59—80	TA4207H25	4.6	—
		TA4207H15	6.7	—
	81—89	TA4207H15	6.4	—
		TA4207H09	10.1	—
	90—110	TA4207H15	6.3	—
		TA4207H09	9.9	—
		TA5215H05	13.9	—
	111—120	TA4207H15	6.0	—
		TA4207H09	9.4	—
		TA4207H05	9.5	—
	121—163	TA4207H09	9.3	—
		TA4207H05	9.3	—
	164—200	TA4207H09	8.5	—
		TA3203H05	7.0	—
	201—400	TA3203H05	7.0	—
30	4—5	TDT1425 †	15.0	—
	6	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.7	—
30	7—9	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	10—12	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.3	—
	13—18	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	19—28	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	29—30	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.3	—
	31—39	TA6307H40	6.2	—
		TA6307H25	6.2	—
		TA6307H15	6.3	—
	40—50	TA5215H40	6.2	—
		TA5215H25	5.5	—
		TA5215H15	6.4	—
	51—72	TA5215H25	5.4	—
		TA5215H15	6.3	—
	73—80	TA4207H25	4.4	—
		TA4207H15	6.5	—
	81—89	TA4207H15	6.4	—
		TA4207H09	10.1	—
	90—120	TA4207H15	6.3	—
		TA4207H09	9.9	—
		TA5215H05	13.9	—
	121—132	TA4207H09	9.3	—
		TA5215H05	11.8	—
	133—200	TA4207H09	9.1	—
		TA4207H05	9.2	—
	201—215	TA4207H05	9.3	—
	216—400	TA3203H05	7.0	—
40	4	TDT1530 †	15.0	—
	5—6	TDT1425 †	15.0	—
	7	TA12608H40	17.2	—
		TDT1425 †	15.0	—
	8	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.7	—
	9—12	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	13—17	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.5	—
	18—25	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—

~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Class I TA II

Easy selection

Class I - 1.0 service factor

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
40	26—38	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	39—50	TA6307H40	6.2	—
		TA6307H25	6.2	—
		TA6307H15	6.2	—
	51—54	TA6307H25	6.2	—
		TA6307H15	6.2	—
	55—80	TA5215H25	5.4	—
		TA5215H15	6.3	—
	81—89	TA5215H15	6.0	—
		TA5215H09	9.1	—
	90—102	TA5215H15	5.7	—
		TA5215H09	8.9	—
		TA5215H05	13.9	—
	103—107	TA4207H15	6.1	—
		TA5215H09	8.6	—
		TA5215H05	12.9	—
	108—120	TA4207H15	6.0	—
		TA4207H09	9.5	—
		TA5215H05	12.6	—
	121—182	TA4207H09	9.3	—
		TA5215H05	11.8	—
	183—185	TA4207H09	8.1	—
		TA4207H05	9.1	—
	186—200	TA4207H09	8.0	—
		TA4207H05	9.2	—
	201—400	TA4207H05	9.8	—
50	4—5	TDT1530 †	15.0	—
	6—8	TDT1425 †	15.0	—
	9—10	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.7	—
	11—15	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	16—17	TA9415H40	8.0	Fan
		TA9415H25	8.0	—
		TA9415H15	10.5	—
	18—21	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.7	—
	22—27	TA8407H40	6.2	Fan
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	28—32	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	33—49	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
50	50	TA6307H40	6.2	Fan
		TA6307H25	6.2	—
		TA6307H15	6.2	—
	51—69	TA6307H25	6.2	—
		TA6307H15	6.2	—
	70—80	TA5215H25	5.3	Fan
		TA5215H15	6.1	—
	81—89	TA5215H15	6.0	—
		TA5215H09	9.1	—
	90—93	TA5215H15	5.7	—
		TA5215H09	8.9	—
		TA6307H05	15.1	—
	94—120	TA5215H15	5.6	—
		TA5215H09	8.8	—
		TA5215H05	13.6	—
	121—144	TA5215H09	8.3	—
		TA5215H05	11.8	—
	145—200	TA4207H09	8.9	—
		TA5215H05	11.2	—
	201—242	TA5215H05	9.9	—
	243—400	TA4207H05	9.7	—
60	4—6	TDT1530 †	15.0	—
	7—10	TDT1425 †	15.0	—
	11—13	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.9	—
	14—18	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	19	TA9415H40	8.0	Fan
		TA9415H25	8.0	Fan
		TA9415H15	10.7	—
	20—26	TA9415H40	8.0	Fan
		TA9415H25	8.0	—
		TA9415H15	10.8	—
	27—30	TA8407H40	6.2	Fan
		TA8407H25	6.2	Fan
		TA8407H15	6.2	—
	31—39	TA8407H40	6.2	Fan
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	40—50	TA7315H40	6.2	Fan
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	51—60	TA7315H25	6.2	—
		TA7315H15	6.2	—
	61—80	TA6307H25	6.2	—
		TA6307H15	6.2	—
	81—88	TA6307H15	6.3	—
		TA6307H09	9.9	—
	89	TA5215H15	5.7	Fan
		TA6307H09	9.9	—

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
60	90—93	TA5215H15	5.7	—
		TA6307H09	10.1	—
		TA6307H05	15.1	—
	94—115	TA5215H15	5.6	—
		TA5215H09	8.8	—
	116—120	TA5215H15	5.1	Fan
		TA5215H09	8.4	—
	121—131	TA5215H09	8.3	—
		TA6307H05	14.5	—
	132—200	TA5215H09	7.9	—
		TA5215H05	11.4	—
	201—400	TA5215H05	9.9	—
75	5—8	TDT1530 †	15.0	—
	9—13	TDT1425 †	15.0	—
	14—16	TA12608H40	17.1	—
		TA12608H25	9.5	—
		TA12608H15	14.2	—
	17—23	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	24—33	TA9415H40	8.0	Fan
		TA9415H25	8.0	Fan
		TA9415H15	10.8	—
	34—37	TA8407H40	6.2	Fan
		TA8407H25	6.2	Fan
		TA8407H15	6.2	Fan
	38—49	TA8407H40	6.2	Fan
		TA8407H25	6.2	Fan
		TA8407H15	6.2	—
	50	TA7315H40	6.2	Fan
		TA7315H25	6.2	Fan
		TA7315H15	6.2	—
	51—77	TA7315H25	6.2	Fan
		TA7315H15	6.2	—
	78—80	TA6307H25	6.2	Fan
		TA6307H15	6.2	Fan
	81—89	TA6307H15	6.3	Fan
		TA6307H09	9.9	Fan
	90—101	TA6307H15	6.5	Fan
		TA6307H09	10.3	Fan
		TA7315H05	14.8	—
	102—120	TA6307H15	6.7	Fan
		TA6307H09	10.8	Fan
		TA6307H05	15.1	—
	121—129	TA6307H09	10.8	Fan
		TA6307H05	14.5	—
	130—196	TA5215H09	7.9	—
		TA6307H05	14.4	—
	197—200	TA5215H09	5.9	Fan
		TA6307H05	13.9	—
	201—208	TA6307H05	13.8	—
	209—400	TA5215H05	9.7	—

~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Class I TA II

Easy selection

Class I - 1.0 service factor

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

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
125	41—50	TA9415H40	8.0	P and C
		TA9415H25	8.0	P and C
		TA9415H15	10.8	Fan
	51—59	TA9415H25	8.0	P and C
		TA9415H15	10.8	Fan
	60—80	TA8407H25	6.2	P and C
		TA8407H15	7.5	Fan
	81—88	TA8407H15	7.8	Fan
	89—90	TA7315H15	6.2	Fan
	91—120	TA7315H15	6.2	Fan
		TA7315H09	8.5	Fan
	121—149	TA7315H09	8.6	Fan
	150—160	TA6307H09	10.9	Fan
	161—200	TA6307H09	10.8	Fan
		TA7315H05	11.9	—
	201—225	TA7315H05	11.7	—
	226—368	TA6307H05	12.8	—
	369—400	TA6307H05	10.9	Fan
150	9—17	TDT1530 †	15.0	—
	18—26	TDT1425 †	15.0	—
	27	TA12608H40	17.1	P and C
	28—34	TA12608H40	17.1	Fan
		TA12608H25	9.5	Fan
		TA12608H15	15.1	Fan
	35—36	TA10507H40	8.5	P and C
		TA12608H25	9.5	Fan
		TA12608H15	15.2	Fan
	37—49	TA10507H40	8.5	P and C
		TA10507H25	8.5	Fan
		TA10507H15	11.3	—
	50	TA9415H40	8.0	P and C
		TA9415H25	8.0	P and C
		TA9415H15	10.8	Fan
	51—72	TA9415H25	8.0	P and C
		TA9415H15	10.8	Fan
	73—80	TA8407H25	6.2	P and C
		TA8407H15	7.5	Fan
	81—112	TA8407H15	8.6	Fan
	113	TA7315H15	6.2	Fan
	114—120	TA7315H15	6.2	Fan
		TA7315H09	8.5	Fan
	121—200	TA7315H09	8.6	Fan
	213—400	TA7315H05	11.5	—
200	12—23	TDT1530 †	15.0	—
	24—35	TDT1425 †	15.0	—
	36—47	TA12608H40	17.1	P and C
		TA12608H25	9.5	Fan
		TA12608H15	15.6	Fan
	48—50	TA10507H40	8.5	P and C
		TA12608H25	9.5	P and C
		TA12608H15	15.7	Fan

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

~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Class II TA II

Easy selection

Class II - 1.4 service factor

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
1/4	4—5	TA1107H31	5.0	—
		TA1107H25	6.4	—
		TA1107H15	5.5	—
	6—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
1/3	4—6	TA1107H31	5.0	—
		TA1107H25	6.4	—
		TA1107H15	5.5	—
	7—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
1/2	4—5	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.3	—
	6—10	TA1107H31	5.0	—
		TA1107H25	6.4	—
		TA1107H15	5.5	—
	11—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
3/4	4—5	TA3203H32	4.6	—
		TA3203H25	4.6	—
		TA3203H15	4.6	—
	6—8	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.3	—

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
3/4	9—16	TA1107H31	5.0	—
		TA1107H25	6.4	—
		TA1107H15	5.5	—
	17—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
1	4	TA4207H40	5.0	—
		TA4207H25	5.5	—
		TA4207H15	8.1	—
	5—7	TA3203H32	4.6	—
		TA3203H25	4.6	—
		TA3203H15	4.6	—
	8—11	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.3	—
	12—21	TA1107H31	4.9	—
		TA1107H25	6.3	—
		TA1107H15	5.5	—
	22—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
1-1/2	4	TA5215H40	6.8	—
		TA5215H25	6.1	—
		TA5215H15	7.1	—
	5—7	TA4207H40	5.0	—
		TA4207H25	5.5	—
		TA4207H15	8.1	—
	8—10	TA3203H32	4.6	—
		TA3203H25	4.6	—
		TA3203H15	4.6	—
	11—17	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.3	—
	18—34	TA1107H31	4.8	—
		TA1107H25	5.9	—
		TA1107H15	5.3	—

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
1-1/2	35—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
2	4—5	TA5215H40	6.8	—
		TA5215H25	6.1	—
		TA5215H15	7.1	—
	6—9	TA4207H40	5.0	—
		TA4207H25	5.5	—
		TA4207H15	8.1	—
	10—14	TA3203H32	4.6	—
		TA3203H25	4.6	—
		TA3203H15	4.6	—
	15—24	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.3	—
	25—46	TA1107H31	4.7	—
		TA1107H25	5.7	—
		TA1107H15	5.2	—
	47—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
3	4—5	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.4	—
	6—8	TA5215H40	6.8	—
		TA5215H25	6.1	—
		TA5215H15	7.1	—
	9—14	TA4207H40	5.0	—
		TA4207H25	5.5	—
		TA4207H15	8.1	—
	15—21	TA3203H32	4.5	—
		TA3203H25	4.5	—
		TA3203H15	4.5	—
	22—38	TA2115H33	3.6	—
		TA2115H25	3.3	—
		TA2115H15	3.2	—

~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Class II TA II

Easy selection

Class II - 1.4 service factor

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
3 (cont)	39—50	TA1107H31	4.5	—
		TA1107H25	5.5	—
		TA1107H15	5.0	—
	51—73	TA1107H25	5.4	—
		TA1107H15	4.9	—
	74—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
5	4	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	5—6	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	7—8	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.4	—
	9—14	TA5215H40	6.8	—
		TA5215H25	6.1	—
		TA5215H15	7.1	—
	15—23	TA4207H40	4.9	—
		TA4207H25	5.4	—
		TA4207H15	7.9	—
	24—36	TA3203H32	4.3	—
		TA3203H25	4.4	—
		TA3203H15	4.4	—
	37—50	TA2115H33	3.3	—
		TA2115H25	3.1	—
		TA2115H15	3.2	—
	51—67	TA2115H25	3.1	—
		TA2115H15	3.5	—
	68—80	TA1107H25	5.2	—
		TA1107H15	4.7	—
	81—89	TA1107H15	4.6	—
		TA1107H09	7.7	—
	90—120	TA1107H15	4.6	—
		TA1107H09	7.5	—
		TA1107H05	12.5	—
	121—131	TA1107H09	7.1	—
		TA1107H05	11.2	—
	132—146	TA0107L09	5.0	—
		TA1107H05	10.8	—
	147—200	TA0107L09	4.8	—
		TA0107L05	7.7	—
	201—400	TA0107L05	6.9	—
7-1/2	4	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.2	—
7-1/2	5—6	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	7—9	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	10—13	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.4	—
	14—21	TA5215H40	6.7	—
		TA5215H25	6.0	—
		TA5215H15	7.0	—
	22—35	TA4207H40	4.7	—
		TA4207H25	5.2	—
		TA4207H15	7.7	—
	36—50	TA3203H32	4.1	—
		TA3203H25	4.3	—
		TA3203H15	4.3	—
	51—58	TA3203H25	4.2	—
		TA3203H15	4.2	—
	59—80	TA2115H25	3.1	—
		TA2115H15	3.6	—
	81—89	TA2115H15	3.7	—
		TA2115H09	6.1	—
	90—105	TA2115H15	3.7	—
		TA2115H09	6.2	—
		TA2115H05	6.5	—
	106—108	TA1107H15	4.5	—
		TA2115H09	6.2	—
		TA2115H05	6.5	—
	109—120	TA1107H15	4.5	—
		TA1107H09	7.3	—
		TA2115H05	6.6	—
	121—127	TA1107H09	7.1	—
		TA2115H05	6.6	—
	128—200	TA1107H09	7.0	—
		TA1107H05	10.9	—
	201—306	TA1107H05	9.1	—
	307—400	TA0107L05	5.5	—
10	4	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	5	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.2	—
	6—8	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	9—12	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	13—17	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.3	—
	18—29	TA5215H40	6.6	—
		TA5215H25	5.9	—
		TA5215H15	6.8	—
10	30—49	TA4207H40	4.5	—
		TA4207H25	5.0	—
		TA4207H15	7.4	—
	50	TA3203H32	4.0	—
		TA3203H25	4.2	—
		TA3203H15	4.2	—
	51—80	TA3203H25	4.2	—
		TA3203H15	4.2	—
	81—84	TA3203H15	4.0	—
		TA3203H09	5.1	—
	85—89	TA2115H15	3.7	—
		TA2115H09	6.1	—
	90—120	TA2115H15	3.7	—
		TA2115H09	6.2	—
		TA3203H05	11.0	—
	121—127	TA2115H09	6.1	—
		TA3203H05	7.7	—
	128—162	TA2115H09	6.2	—
		TA2115H05	6.5	—
	163—200	TA1107H09	6.5	—
		TA2115H05	6.3	—
	201—209	TA2115H05	6.0	—
	210—400	TA1107H05	8.9	—
15	4	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.7	—
	5—6	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	7—8	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.2	—
	9—12	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	13—19	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	20—26	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.3	—
	27—47	TA5215H40	6.4	—
		TA5215H25	5.7	—
		TA5215H15	6.6	—
	48—50	TA4207H40	4.2	—
		TA4207H25	4.7	—
		TA4207H15	6.9	—
	51—80	TA4207H25	4.7	—
		TA4207H15	6.8	—
	81	TA3203H15	4.0	—
		TA4207H09	10.1	—
	82—89	TA3203H15	4.0	—
		TA3203H09	5.2	—
	90—92	TA3203H15	4.0	—
		TA3203H09	5.3	—
		TA5215H05	13.9	—

~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Class II TA II

Easy selection

Class II - 1.4 service factor

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
15	93—118	TA3203H15	4.0	—
		TA3203H09	5.5	—
		TA4207H05	9.8	—
	119—120	TA3203H15	4.0	—
		TA3203H09	5.6	—
		TA3203H05	7.7	—
	121—149	TA3203H09	5.7	—
		TA3203H05	7.7	—
	150—200	TA2115H09	6.5	—
		TA3203H05	7.0	—
	201—260	TA3203H05	7.0	—
	261—400	TA2115H05	5.6	—
20	4	TDT1425 †	15.0	—
	5	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.7	—
	6—8	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	9—11	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.3	—
	12—17	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	18—26	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	27—36	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.3	—
	37—50	TA5215H40	6.2	—
		TA5215H25	5.6	—
		TA5215H15	6.5	—
	51—67	TA5215H25	5.4	—
		TA5215H15	6.3	—
	68—80	TA4207H25	4.5	—
		TA4207H15	6.6	—
	81—89	TA4207H15	6.4	—
		TA4207H09	10.1	—
	90—115	TA4207H15	6.3	—
		TA4207H09	9.9	—
		TA5215H05	13.9	—
	116—120	TA4207H15	5.9	—
		TA3203H09	5.6	—
		TA5215H05	12.1	—
	121—123	TA3203H09	5.6	—
		TA5215H05	11.8	—
	124—194	TA3203H09	5.7	—
		TA4207H05	9.3	—
	195—200	TA3203H09	5.5	—
		TA3203H05	7.0	—
	201—400	TA3203H05	7.0	—
25	4—6	TDT1425 †	15.0	—
	7	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.7	—
25	8—10	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	11—14	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.4	—
	15—21	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	22—33	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	34—46	TA6307H40	6.2	—
		TA6307H25	6.2	—
		TA6307H15	6.2	—
	47—50	TA5215H40	6.1	—
		TA5215H25	5.5	—
		TA5215H15	6.3	—
	51—80	TA5215H25	5.4	—
		TA5215H15	6.3	—
	81—87	TA5215H15	6.0	—
		TA5215H09	9.1	—
	88—89	TA4207H15	6.3	—
		TA5215H09	8.9	—
	90—91	TA4207H15	6.3	—
		TA5215H09	8.9	—
		TA5215H05	13.9	—
	92—120	TA4207H15	6.3	—
		TA4207H09	9.8	—
		TA5215H05	13.7	—
	121—154	TA4207H09	9.3	—
		TA5215H05	11.8	—
	155—200	TA4207H09	8.7	—
		TA4207H05	9.2	—
	201—269	TA4207H05	9.8	—
	270—400	TA3203H05	7.0	—
30	4	TDT1530 †	15.0	—
	5—7	TDT1425 †	15.0	—
	8	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.7	—
	9—12	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	13—18	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.6	—
	19—26	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	27—41	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	42—50	TA6307H40	6.2	—
		TA6307H25	6.2	—
		TA6307H15	6.2	—
30	51—56	TA6307H25	6.2	—
		TA6307H15	6.2	—
	57—80	TA5215H25	5.4	—
		TA5215H15	6.2	—
	81—89	TA5215H15	6.0	—
		TA5215H09	9.1	—
	90—110	TA5215H15	5.7	—
		TA5215H09	8.9	—
		TA5215H05	13.9	—
	111—114	TA4207H15	6.0	—
		TA5215H09	8.5	—
		TA5215H05	12.4	—
	115—120	TA4207H15	5.9	—
		TA4207H09	9.4	—
		TA5215H05	12.1	—
	121—195	TA4207H09	9.3	—
		TA5215H05	11.8	—
	196—200	TA4207H09	7.8	—
		TA4207H05	9.2	—
	201—348	TA4207H05	9.8	—
	349—400	TA3203H05	7.0	—
40	4—6	TDT1530 †	15.0	—
	7—9	TDT1425 †	15.0	—
	10—12	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.9	—
	13—17	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	18—24	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.7	—
	25—36	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	37—50	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	51—56	TA7315H25	6.2	—
		TA7315H15	6.2	—
	57—78	TA6307H25	6.2	—
		TA6307H15	6.2	—
	79—80	TA5215H25	5.2	—
		TA5215H15	6.0	—
	81—85	TA5215H15	6.0	—
		TA6307H09	9.8	—
	86—89	TA5215H15	5.8	—
		TA5215H09	9.0	—
	90—112	TA5215H15	5.7	—
		TA5215H09	8.9	—
		TA6307H05	15.1	—
	113—120	TA5215H15	5.1	—
		TA5215H09	8.4	—
		TA5215H05	12.3	—
	121—173	TA5215H09	8.3	—
		TA5215H05	11.8	—

~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Class II TA II

Easy selection

Class II - 1.4 service factor

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
40	174—200	TA4207H09	8.2	—
		TA5215H05	10.4	—
	201—299	TA5215H05	9.9	—
	300—400	TA4207H05	8.8	—
50	5—8	TDT1530 †	15.0	—
	9—12	TDT1425 †	15.0	—
	13—15	TA12608H40	17.1	—
		TA12608H25	9.5	—
		TA12608H15	14.1	—
	16—21	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	22—31	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.8	—
	32—43	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	44—46	TA8407H40	6.2	Fan
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	47—50	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	51—71	TA7315H25	6.2	—
		TA7315H15	6.2	—
	72—80	TA6307H25	6.2	—
		TA6307H15	6.2	—
	81—89	TA6307H15	6.3	—
		TA6307H09	9.9	—
	90—91	TA6307H15	6.3	—
		TA6307H09	10.0	—
		TA7315H05	14.8	—
	92—114	TA6307H15	6.6	—
		TA6307H09	10.6	—
		TA6307H05	15.1	—
	115—116	TA6307H15	6.7	—
		TA5215H09	8.4	—
		TA6307H05	14.7	—
	117—120	TA5215H15	5.1	—
		TA5215H09	8.4	—
		TA6307H05	14.6	—
	121—177	TA5215H09	8.3	—
		TA6307H05	14.5	—
	178—200	TA5215H09	6.3	—
		TA5215H05	10.4	—
	201—400	TA5215H05	9.9	—
60	5—9	TDT1530 †	15.0	—
	10—14	TDT1425 †	15.0	—
	15—18	TA12608H40	17.1	—
		TA12608H25	9.5	—
		TA12608H15	14.3	—
	19—26	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
60	27—38	TA9415H40	8.0	Fan
		TA9415H25	8.0	—
		TA9415H15	10.8	—
	39—50	TA8407H40	6.2	Fan
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	51—56	TA8407H25	6.2	—
		TA8407H15	6.5	—
	57—80	TA7315H25	6.2	—
		TA7315H15	6.2	—
	81—89	TA7315H15	6.2	—
		TA7315H09	8.1	—
	90—120	TA6307H15	6.7	—
		TA6307H09	10.8	—
		TA7315H05	14.8	—
	121	TA6307H09	10.8	—
		TA7315H05	12.8	—
	122—195	TA6307H09	10.9	—
		TA6307H05	14.5	—
	196—199	TA6307H09	10.1	Fan
		TA6307H05	13.9	—
	200	TA5215H09	5.8	—
		TA6307H05	13.8	—
	201—282	TA6307H05	13.8	—
	283—400	TA5215H05	8.4	—
75	7—12	TDT1530 †	15.0	—
	13—18	TDT1425 †	15.0	—
	19—23	TA12608H40	17.1	—
		TA12608H25	9.5	—
		TA12608H15	14.6	—
	24	TA10507H40	8.5	—
		TA12608H25	9.5	—
		TA12608H15	14.7	—
	25—33	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.7	—
	34—48	TA9415H40	8.0	Fan
		TA9415H25	8.0	Fan
		TA9415H15	10.8	—
	49	TA8407H40	6.2	Fan
		TA8407H25	6.2	Fan
		TA9415H15	10.8	—
	50	TA8407H40	6.2	Fan
		TA8407H25	6.2	Fan
		TA8407H15	6.2	—
	51—72	TA8407H25	6.2	Fan
		TA8407H15	7.2	—
	73—80	TA7315H25	6.2	Fan
		TA7315H15	6.2	—
	81—111	TA7315H15	6.2	—
		TA7315H09	8.5	—
	112—117	TA7315H15	6.2	—
		TA7315H09	8.5	—
	118—120	TA6307H15	6.7	Fan
		TA6307H09	10.8	Fan
	121—169	TA6307H09	10.9	Fan
		TA7315H05	12.8	—
75	170—200	TA6307H09	10.7	Fan
		TA6307H05	14.0	—
	201—400	TA6307H05	13.8	—
100	8—16	TDT1530 †	15.0	—
	17—24	TDT1425 †	15.0	—
	25—32	TA12608H40	17.1	—
		TA12608H25	9.5	—
		TA12608H15	15.1	—
	33	TA10507H40	8.5	Fan
		TA12608H25	9.5	—
		TA12608H15	15.1	—
	34—45	TA10507H40	8.5	Fan
		TA10507H25	8.5	—
		TA10507H15	11.1	—
	46—50	TA9415H40	8.0	Fan
		TA9415H25	8.0	Fan
		TA9415H15	10.8	Fan
	51—67	TA9415H25	8.0	Fan
		TA9415H15	10.8	Fan
	68—80	TA8407H25	6.2	Fan
		TA8407H15	7.5	Fan
	81—102	TA8407H15	8.3	Fan
	103	TA7315H15	6.2	Fan
	104—120	TA7315H15	6.2	Fan
		TA7315H09	8.5	Fan
	121—180	TA7315H09	8.6	Fan
	181—190	TA6307H09	10.4	Fan
	191—200	TA6307H09	10.2	Fan
		TA7315H05	11.7	—
	201—274	TA7315H05	11.7	—
	275—400	TA6307H05	12.0	—
125	11—20	TDT1530 †	15.0	—
	21—30	TDT1425 †	15.0	—
	31—41	TA12608H40	17.1	Fan
		TA12608H25	9.5	—
		TA12608H15	15.4	—
	42—43	TA10507H40	8.5	Fan
		TA12608H25	9.5	—
		TA12608H15	15.5	—
	44—50	TA10507H40	8.5	Fan
		TA10507H25	8.5	Fan
		TA10507H15	11.3	Fan
	51—58	TA10507H25	8.5	Fan
		TA10507H15	11.8	Fan
	59—80	TA9415H25	8.0	Fan
		TA9415H15	10.8	Fan
	81—85	TA9415H15	10.5	Fan
	86—120	TA8407H15	8.7	Fan
	141—200	TA7315H09	8.6	Fan
	272—400	TA7315H05	10.9	—
150	13—25	TDT1530 †	15.0	—
	26—36	TDT1425 †	15.0	—
	37—50	TA12608H40	17.1	Fan
		TA12608H25	9.5	Fan
		TA12608H15	15.7	Fan
	51—54	TA12608H25	9.6	Fan
		TA12608H15	15.8	Fan

~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Class II TA II

Easy selection

Class II - 1.4 service factor

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
150	55—71	TA10507H25	9.0	Fan
		TA10507H15	12.7	Fan
	72	TA9415H25	8.0	P and C
		TA10507H15	12.8	Fan
	73—80	TA9415H25	8.0	P and C
		TA9415H15	10.6	Fan
	81—105	TA9415H15	10.5	Fan
	106—120	TA8407H15	8.7	Fan
	189—200	TA7315H09	8.2	Fan
	368—400	TA7315H05	10.1	—
200	18—33	TDT1530 †	15.0	—
	34—49	TDT1425 †	15.0	Fan
	50	TA12608H40	17.1	P and C
		TA12608H25	9.5	Fan
		TA12608H15	15.7	Fan
	51—76	TA12608H25	10.7	Fan
		TA12608H15	16.1	Fan
	77—80	TA10507H25	9.4	P and C
		TA10507H15	13.4	Fan
	81—105	TA10507H15	13.6	Fan
	106—120	TA9415H15	10.2	P and C
250	23—42	TDT1530 †	15.0	—
	43—61	TDT1425 †	15.0	P and C
	62—80	TA12608H25	10.7	P and C
		TA12608H15	16.1	P and C
	81—103	TA12608H15	15.6	P and C
	104—120	TA10507H15	13.5	P and C
300	28—53	TDT1530 †	15.0	—
	54—75	TDT1425 †	15.0	P and C
	76—80	TA12608H25	10.7	P and C
		TA12608H15	15.8	P and C
	81—120	TA12608H15	15.6	P and C
350	33—57	TDT1530 †	15.0	—
	66—75	TDT1425 †	15.0	P and C
	94—120	TA12608H15	15.2	P and C
400	38—57	TDT1530 †	15.0	Fan
	114—120	TA12608H15	15.1	P and C
450	43—57	TDT1530 †	15.0	Fan
500	50—57	TDT1530 †	15.0	Fan

~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Class III TA II

Easy selection

Class III - 2.0 service factor

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
1/4	4	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.3	—
	5—7	TA1107H31	5.0	—
		TA1107H25	6.4	—
		TA1107H15	5.5	—
	8—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
1/3	4—5	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.3	—
	6—9	TA1107H31	5.0	—
		TA1107H25	6.4	—
		TA1107H15	5.5	—
	10—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
1/2	4—5	TA3203H32	4.6	—
		TA3203H25	4.6	—
		TA3203H15	4.6	—
	6—8	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.3	—
	9—15	TA1107H31	5.0	—
		TA1107H25	6.4	—
		TA1107H15	5.5	—
	16—50	TA0107L31	4.0	—
		TA0107L25	4.0	—
		TA0107L15	4.0	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—

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

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
1-1/2	7—10	TA4207H40	5.0	—
		TA4207H25	5.5	—
		TA4207H15	8.1	—
	11—15	TA3203H32	4.6	—
		TA3203H25	4.6	—
		TA3203H15	4.6	—
	16—26	TA2115H33	3.7	—
		TA2115H25	3.3	—
		TA2115H15	3.2	—
	27—50	TA1107H31	4.6	—
		TA1107H25	5.7	—
		TA1107H15	5.2	—
	51—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
2	4—5	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.4	—
	6—8	TA5215H40	6.8	—
		TA5215H25	6.1	—
		TA5215H15	7.1	—
	9—13	TA4207H40	5.0	—
		TA4207H25	5.5	—
		TA4207H15	8.1	—
	14—20	TA3203H32	4.5	—
		TA3203H25	4.5	—
		TA3203H15	4.6	—
	21—36	TA2115H33	3.6	—
		TA2115H25	3.3	—
		TA2115H15	3.2	—
	37—50	TA1107H31	4.5	—
		TA1107H25	5.6	—
		TA1107H15	5.0	—
	51—69	TA1107H25	5.4	—
		TA1107H15	4.9	—
	70—80	TA0107L25	4.0	—
		TA0107L15	4.0	—
	81—89	TA0107L15	4.0	—
		TA0107L09	5.3	—
	90—120	TA0107L15	4.0	—
		TA0107L09	5.2	—
		TA0107L05	9.2	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
3	4—5	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	6—7	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.4	—

~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Class III TA II

Easy selection

Class III - 2.0 service factor

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
3	8—12	TA5215H40	6.8	—
		TA5215H25	6.1	—
		TA5215H15	7.1	—
	13—20	TA4207H40	4.9	—
		TA4207H25	5.5	—
		TA4207H15	8.0	—
	21—30	TA3203H32	4.3	—
		TA3203H25	4.4	—
		TA3203H15	4.4	—
	31	TA3203H32	4.1	—
		TA2115H25	3.1	—
		TA2115H15	3.1	—
	32—50	TA2115H33	3.5	—
		TA2115H25	3.1	—
		TA2115H15	3.2	—
	51—56	TA2115H25	3.1	—
		TA2115H15	3.3	—
	57—80	TA1107H25	5.3	—
		TA1107H15	4.8	—
	81—89	TA1107H15	4.6	—
		TA1107H09	7.7	—
	90—109	TA1107H15	4.6	—
		TA1107H09	7.5	—
		TA1107H05	12.5	—
	110—113	TA1107H15	4.5	—
		TA0107L09	5.1	—
		TA1107H05	11.6	—
	114	TA0107L15	4.0	—
		TA0107L09	5.1	—
		TA1107H05	11.4	—
	115—120	TA0107L15	4.0	—
		TA0107L09	5.1	—
		TA0107L05	8.4	—
	121—200	TA0107L09	5.0	—
		TA0107L05	8.3	—
	201—400	TA0107L05	6.9	—
5	4	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.2	—
	5	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	6—8	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	9—12	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.4	—
	13—20	TA5215H40	6.7	—
		TA5215H25	6.0	—
		TA5215H15	7.0	—
	21—33	TA4207H40	4.7	—
		TA4207H25	5.2	—
		TA4207H15	7.7	—
	34—50	TA3203H32	4.1	—
		TA3203H25	4.3	—
		TA3203H15	4.3	—
	51—55	TA3203H25	4.2	—
		TA3203H15	4.2	—

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
5	56—80	TA2115H25	3.1	—
		TA2115H15	3.6	—
	81—89	TA2115H15	3.7	—
		TA2115H09	6.1	—
	90—100	TA2115H15	3.7	—
		TA2115H09	6.2	—
		TA2115H05	6.5	—
	101	TA1107H15	4.5	—
		TA2115H09	6.2	—
		TA2115H05	6.5	—
	102—118	TA1107H15	4.5	—
		TA1107H09	7.4	—
		TA2115H05	6.6	—
	119—120	TA1107H15	4.4	—
		TA1107H09	7.1	—
		TA1107H05	11.2	—
	121—200	TA1107H09	7.1	—
		TA1107H05	11.2	—
	201—276	TA1107H05	9.1	—
	277—400	TA0107L05	5.8	—
7-1/2	4	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	5—6	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.2	—
	7—8	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	9—13	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	14—18	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.3	—
	19—32	TA5215H40	6.5	—
		TA5215H25	5.9	—
		TA5215H15	6.8	—
	33—50	TA4207H40	4.5	—
		TA4207H25	5.0	—
		TA4207H15	7.3	—
	51—53	TA4207H25	4.7	—
		TA4207H15	6.8	—
	54—80	TA3203H25	4.1	—
		TA3203H15	4.2	—
	81—89	TA3203H15	4.0	—
		TA3203H09	5.2	—
	90—92	TA3203H15	4.0	—
		TA3203H09	5.3	—
		TA3203H05	11.0	—
	93—120	TA2115H15	3.7	—
		TA2115H09	6.2	—
		TA3203H05	10.4	—
	121—143	TA2115H09	6.1	—
		TA3203H05	7.7	—
	144—181	TA2115H09	6.3	—
		TA2115H05	6.4	—

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
7-1/2	182—200	TA1107H09	6.2	—
		TA2115H05	6.2	—
	201—237	TA2115H05	6.0	—
	238—400	TA1107H05	8.4	—
10	4	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.7	—
	5—6	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	7—8	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.2	—
	9—11	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	12—18	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	19—25	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.3	—
	26—45	TA5215H40	6.4	—
		TA5215H25	5.7	—
		TA5215H15	6.7	—
	46—50	TA4207H40	4.3	—
		TA4207H25	4.7	—
		TA4207H15	7.0	—
	51—75	TA4207H25	4.7	—
		TA4207H15	6.8	—
	76—80	TA3203H25	4.0	—
		TA3203H15	4.1	—
	81—89	TA3203H15	4.0	—
		TA3203H09	5.2	—
	90—105	TA3203H15	4.0	—
		TA3203H09	5.4	—
		TA4207H05	9.9	—
	106—120	TA3203H15	4.0	—
		TA3203H09	5.6	—
		TA3203H05	8.6	—
	121—141	TA3203H09	5.7	—
		TA3203H05	7.7	—
	142—200	TA2115H09	6.5	—
		TA3203H05	7.2	—
	201—238	TA3203H05	7.0	—
	239—400	TA2115H05	5.7	—
15	4—5	TDT1425 †	15.0	—
	6	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.7	—
	7—9	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	10—12	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.3	—

~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Class III TA II

Easy selection

Class III - 2.0 service factor

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
15	13—18	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	19—28	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	29—39	TA6307H40	6.3	—
		TA6307H25	6.3	—
		TA6307H15	6.3	—
	40—50	TA5215H40	6.2	—
		TA5215H25	5.5	—
		TA5215H15	6.4	—
	51—72	TA5215H25	5.4	—
		TA5215H15	6.3	—
	73—80	TA4207H25	4.4	—
		TA4207H15	6.5	—
	81—89	TA4207H15	6.4	—
		TA4207H09	10.1	—
	90—120	TA4207H15	6.3	—
		TA4207H09	9.9	—
		TA5215H05	13.9	—
	121—125	TA4207H09	9.3	—
		TA5215H05	11.8	—
	126—132	TA3203H09	5.7	—
		TA5215H05	11.6	—
	133—200	TA3203H09	5.7	—
		TA4207H05	9.2	—
	201—215	TA4207H05	9.3	—
	216—400	TA3203H05	7.0	—
20	4	TDT1530 †	15.0	—
	5—6	TDT1425 †	15.0	—
	7	TA12608H40	17.2	—
		TDT1425 †	15.0	—
	8	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.7	—
	9—12	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	13—17	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.5	—
	18—25	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	26—38	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	39—50	TA6307H40	6.2	—
		TA6307H25	6.2	—
		TA6307H15	6.2	—
	51—54	TA6307H25	6.2	—
		TA6307H15	6.2	—
	55—80	TA5215H25	5.4	—
		TA5215H15	6.3	—
	81—89	TA5215H15	6.0	—
		TA5215H09	9.1	—
20	90—102	TA5215H15	5.7	—
		TA5215H09	8.9	—
		TA5215H05	13.9	—
	103—107	TA4207H15	6.1	—
		TA5215H09	8.6	—
		TA5215H05	12.9	—
	108—120	TA4207H15	6.0	—
		TA4207H09	9.5	—
		TA5215H05	12.6	—
	121—182	TA4207H09	9.3	—
		TA5215H05	11.8	—
	183—200	TA4207H09	8.1	—
		TA4207H05	9.2	—
	201—324	TA4207H05	9.8	—
	325—400	TA3203H05	7.0	—
25	4—5	TDT1530 †	15.0	—
	6—8	TDT1425 †	15.0	—
	9—10	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.7	—
	11—15	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	16—21	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.7	—
	22—32	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	33—49	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	50	TA6307H40	6.2	—
		TA6307H25	6.2	—
		TA6307H15	6.2	—
	51—69	TA6307H25	6.2	—
		TA6307H15	6.2	—
	70—80	TA5215H25	5.3	—
		TA5215H15	6.1	—
	81—89	TA5215H15	6.0	—
		TA5215H09	9.1	—
	90—93	TA5215H15	5.7	—
		TA5215H09	8.9	—
		TA6307H05	15.1	—
	94—120	TA5215H15	5.6	—
		TA5215H09	8.8	—
		TA5215H05	13.6	—
	121—144	TA5215H09	8.3	—
		TA5215H05	11.8	—
	145—200	TA4207H09	8.9	—
		TA5215H05	11.2	—
	201—242	TA5215H05	9.9	—
	243—400	TA4207H05	9.7	—
30	4—6	TDT1530 †	15.0	—
	7—10	TDT1425 †	15.0	—
	11—13	TA12608H40	17.2	—
		TA12608H25	9.5	—
		TA12608H15	13.9	—
30	14—18	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	19—26	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.8	—
	27—39	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	40—50	TA7315H40	6.2	—
		TA7315H25	6.2	—
		TA7315H15	6.2	—
	51—60	TA7315H25	6.2	—
		TA7315H15	6.2	—
	61—80	TA6307H25	6.2	—
		TA6307H15	6.2	—
	81—88	TA6307H15	6.3	—
		TA6307H09	9.9	—
	89	TA5215H15	5.7	—
		TA6307H09	9.9	—
	90—93	TA5215H15	5.7	—
		TA6307H09	10.1	—
		TA6307H05	15.1	—
	94—120	TA5215H15	5.6	—
		TA5215H09	8.8	—
		TA6307H05	15.1	—
	121—131	TA5215H09	8.3	—
		TA6307H05	14.5	—
	132—196	TA5215H09	7.9	—
		TA5215H05	11.4	—
	197—200	TA4207H09	7.8	—
		TA5215H05	10.0	—
	201—344	TA5215H05	9.9	—
	345—400	TA4207H05	8.2	—
40	5—9	TDT1530 †	15.0	—
	10—13	TDT1425 †	15.0	—
	14	TA12608H40	17.1	—
		TDT1425 †	15.0	—
	15—17	TA12608H40	17.1	—
		TA12608H25	9.5	—
		TA12608H15	14.3	—
	18—25	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.8	—
	26—36	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.8	—
	37—50	TA8407H40	6.2	—
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	51—53	TA8407H25	6.2	—
		TA8407H15	6.3	—
	54—80	TA7315H25	6.2	—
		TA7315H15	6.2	—
	81—84	TA7315H15	6.2	—
		TA7315H09	8.0	—
	85—89	TA6307H15	6.3	—
		TA6307H09	9.9	—

~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Class III TA II

Easy selection

Class III - 2.0 service factor

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
40	90—112	TA6307H15	6.6	—
		TA6307H09	10.6	—
		TA7315H05	14.8	—
	113—120	TA6307H15	6.7	—
		TA6307H09	10.8	—
		TA6307H05	14.7	—
	121—160	TA6307H09	10.9	—
		TA6307H05	14.5	—
	161—200	TA5215H09	6.8	—
		TA6307H05	14.1	—
	201—246	TA6307H05	13.8	—
	247—400	TA5215H05	9.0	—
50	6—11	TDT1530 †	15.0	—
	12—17	TDT1425 †	15.0	—
	18—22	TA12608H40	17.1	—
		TA12608H25	9.5	—
		TA12608H15	14.6	—
	23—31	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.7	—
	32—37	TA9415H40	8.0	—
		TA9415H25	8.0	—
		TA9415H15	10.8	—
	38—46	TA9415H40	8.0	Fan
		TA9415H25	8.0	—
		TA9415H15	10.8	—
	47—50	TA8407H40	6.2	Fan
		TA8407H25	6.2	—
		TA8407H15	6.2	—
	51—68	TA8407H25	6.2	—
		TA8407H15	7.0	—
	69—80	TA7315H25	6.2	—
		TA7315H15	6.2	—
	81—110	TA7315H15	6.2	—
		TA7315H09	8.5	—
	111	TA6307H15	6.6	—
		TA6307H09	10.5	—
	112—120	TA6307H15	6.7	—
		TA6307H09	10.8	—
		TA7315H05	13.2	—
	121—157	TA6307H09	10.9	—
		TA7315H05	12.8	—
	158—200	TA6307H09	10.9	—
		TA6307H05	14.2	—
	201—400	TA6307H05	13.8	—
60	7—14	TDT1530 †	15.0	—
	15—20	TDT1425 †	15.0	—
	21	TA12608H40	17.1	—
		TDT1425 †	15.0	—
	22—27	TA12608H40	17.1	—
		TA12608H25	9.5	—
		TA12608H15	14.8	—
	28	TA10507H40	8.5	—
		TA12608H25	9.5	—
		TA12608H15	14.9	—
	29—38	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	10.7	—

Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
60	39—45	TA9415H40	8.0	Fan
		TA9415H25	8.0	—
		TA9415H15	10.8	—
	46—50	TA9415H40	8.0	Fan
		TA9415H25	8.0	—
		TA9415H15	10.8	—
	51—56	TA9415H25	8.0	—
		TA9415H15	10.8	—
	57—71	TA8407H25	6.2	—
		TA8407H15	7.1	—
	72—80	TA8407H25	6.2	Fan
		TA8407H15	7.5	—
	81—83	TA8407H15	7.7	—
	84—85	TA7315H15	6.2	—
	86—120	TA7315H15	6.2	—
		TA7315H09	8.5	—
	121—141	TA7315H09	8.6	—
	142—150	TA6307H09	10.9	—
	151—195	TA6307H09	10.9	—
		TA7315H05	12.1	—
	196—200	TA6307H09	10.1	Fan
		TA7315H05	11.7	—
	201—208	TA7315H05	11.7	—
	209—400	TA6307H05	13.5	—
75	9—17	TDT1530 †	15.0	—
	18—26	TDT1425 †	15.0	—
	27—34	TA12608H40	17.1	—
		TA12608H25	9.5	—
		TA12608H15	15.1	—
	35—36	TA10507H40	8.5	—
		TA12608H25	9.5	—
		TA12608H15	15.2	—
	37—49	TA10507H40	8.5	—
		TA10507H25	8.5	—
		TA10507H15	11.3	—
	50	TA9415H40	8.0	Fan
		TA9415H25	8.0	Fan
		TA9415H15	10.8	—
	51—72	TA9415H25	8.0	Fan
		TA9415H15	10.8	—
	73—80	TA8407H25	6.2	Fan
		TA8407H15	7.5	—
	81—112	TA8407H15	8.6	—
	113	TA7315H15	6.2	—
	114—120	TA7315H15	6.2	—
		TA7315H09	8.5	—
	121—156	TA7315H09	8.6	—
	157— 200	TA7315H09	8.5	Fan
	213—306	TA7315H05	11.5	—
	307—400	TA6307H05	11.7	—
100	12—23	TDT1530 †	15.0	—
	24—35	TDT1425 †	15.0	—
	36—47	TA12608H40	17.1	—
		TA12608H25	9.5	—
		TA12608H15	15.6	—
	48—50	TA10507H40	8.5	Fan
		TA12608H25	9.5	—
		TA12608H15	15.7	—

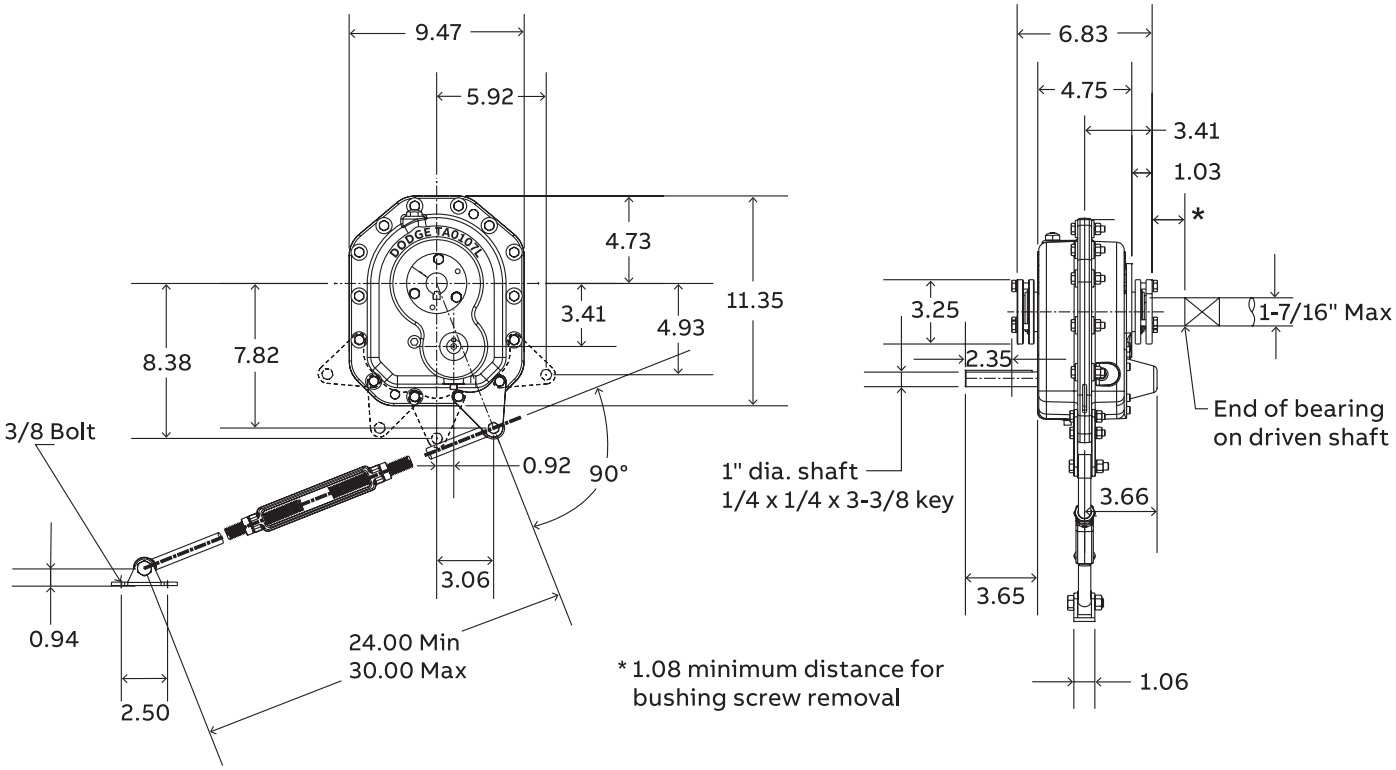
Motor (hp)	Output speed (rpm)	Reducer selection	Min. sheave pitch dia	Cooling method
100	51	TA12608H25	9.6	—
		TA12608H15	15.7	—
	52—56	TA10507H25	8.5	—
		TA10507H15	11.8	—
	57—67	TA10507H25	8.8	Fan
		TA10507H15	12.4	—
	68	TA9415H25	8.0	Fan
		TA10507H15	12.5	—
	69—80	TA9415H25	8.0	Fan
		TA9415H15	10.7	Fan
	81—100	TA9415H15	10.5	Fan
	101—120	TA8407H15	8.7	Fan
	172—200	TA7315H09	8.4	Fan
	331—400	TA7315H05	10.8	—
125	16—30	TDT1530 †	15.0	—
	31—43	TDT1425 †	15.0	—
	44—50	TA12608H40	17.1	Fan
		TA12608H25	9.5	—
		TA12608H15	15.7	—
	51—58	TA12608H25	9.6	—
		TA12608H15	15.9	—
	59—67	TA12608H25	10.4	Fan
		TA12608H15	16.1	—
	68—80	TA10507H25	9.4	Fan
		TA10507H15	13.4	Fan
	81—90	TA10507H15	13.6	Fan
	91—120	TA9415H15	10.3	Fan
150	19—36	TDT1530 †	15.0	—
	37—41	TDT1425 †	15.0	—
	42—52	TDT1425 †	15.0	Fan
	53—80	TA12608H25	10.7	Fan
		TA12608H15	16.1	Fan
	81—83	TA12608H15	15.6	Fan
	84—115	TA10507H15	13.6	Fan
	116—120	TA9415H15	10.2	Fan
200	27—50	TDT1530 †	15.0	—
	51—70	TDT1425 †	15.0	P and C
	71—80	TA12608H25	10.7	P and C
		TA12608H15	16.1	Fan
	81—98	TA12608H15	15.6	Fan
	99—120	TA12608H15	15.1	P and C
250	34—57	TDT1530 †	15.0	—
	66—75	TDT1425 †	15.0	P and C
	97—120	TA12608H15	15.1	P and C
300	41—57	TDT1530 †	15.0	—
350	50—57	TDT1530 †	15.0	—

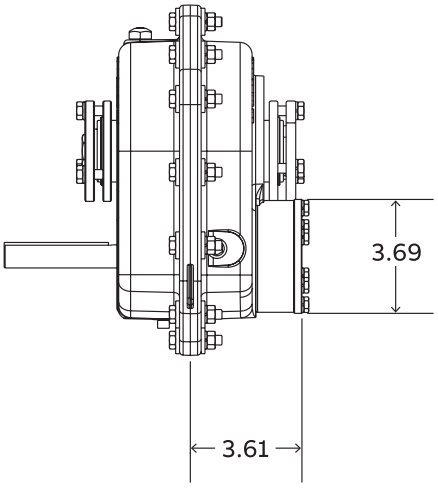
~ See page G1-116 and G1-117 for lubrication for 15 rpm and slower
† See page G3-58 and G3-59 for information on TDT1425 and TDT1530 reducers

Selection and dimensions

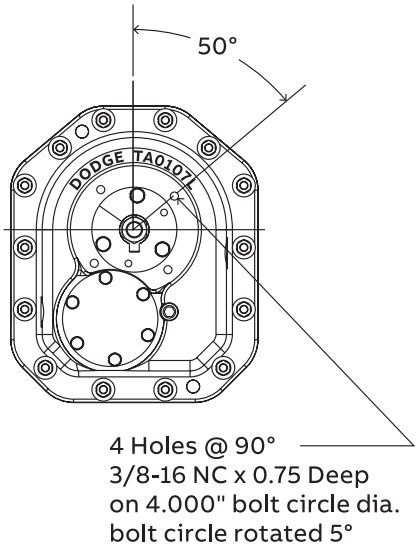
TA0107L

Taper-bushed reducers – single and double-reduction





Reducer with backstop



Flange mounting dimensions

All dimensions are in inches.

TA0107L

Taper-bushed reducers – single and double-reduction

TA0107L taper-bushed reducers [1]

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TA0107L05	900004	107S05	5.20	39.6
TA0107L09	900003	107D09	9.00	41.2
TA0107L15	900002	107D15	14.93	41.1
TA0107L25	900001	107D25	25.09	41.0
TA0107L31	900000	107D31	30.94	41.2

TA0107L accessories

Description	Part Number	Weight (lb)
TA0107RA Tie rod assembly +	900109	4.5
TA1107/0107L BS backstop assembly [2]	901102	3.9
TA0107MM Motor mount assembly (56—215T) [3]	900090	35.4
TA0107BG Belt guard - Pos. B (56—215T)	900096	40.6
TA0107BG Belt guard - Pos. C (56—215T) [4]	900097	42.2
TA0107BG Belt guard - Pos. D (56—215T)	900099	39.0
TA0—TA3 Hydra-Lock desiccant breather Kit HLO	964372	2.0
TA0107—TA9415 OPTIFY™ Breather OB1	750020	2.0
XT Enclosed breather system, TA0—9	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TA0107L V-Ring kit	900249	0.1
TA0107L Lube kit	LUBEKITTA0107	4.6
TA0—TA3 Vertical breather kit	900112	2.0

TA0107L tapered bushing kits [5] [6]

Bushing size standard shaft [7] bushing kit	Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA0107TB x 1-7/16 ▲	900020	1.5	3/8 x 3/16 x 6.83
TA0107TB x 1-3/16	900024	2.0	1/4 x 1/8 x 6.83

For bushing smaller than AGMA bore - check with application engineering for shaft strength.

TA0107L short shaft tapered bushing kits

Bushing size short shaft bushing kit	Part number [8]	Weight (lb)	Shaft keyseat required [9][10]
TA0107TBS x 1-3/16	900027	2.1	1/4 x 1/8 x 4.35

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
TA0107L	900142	0.5	020544	2

TA II is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TA II reducer.

Shaft guard and kits

Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TA0107L	020568	3	TAShaftGuard-00	5

Kits include adapter and extension for that size reducer.

▲ AGMA maximum bore size

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

(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.

(2) See page G1-112 for input shaft speed necessary for backstop sprag lift-off

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

(4) Use position C belt guard for TA II reducers in screw conveyor drive applications

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

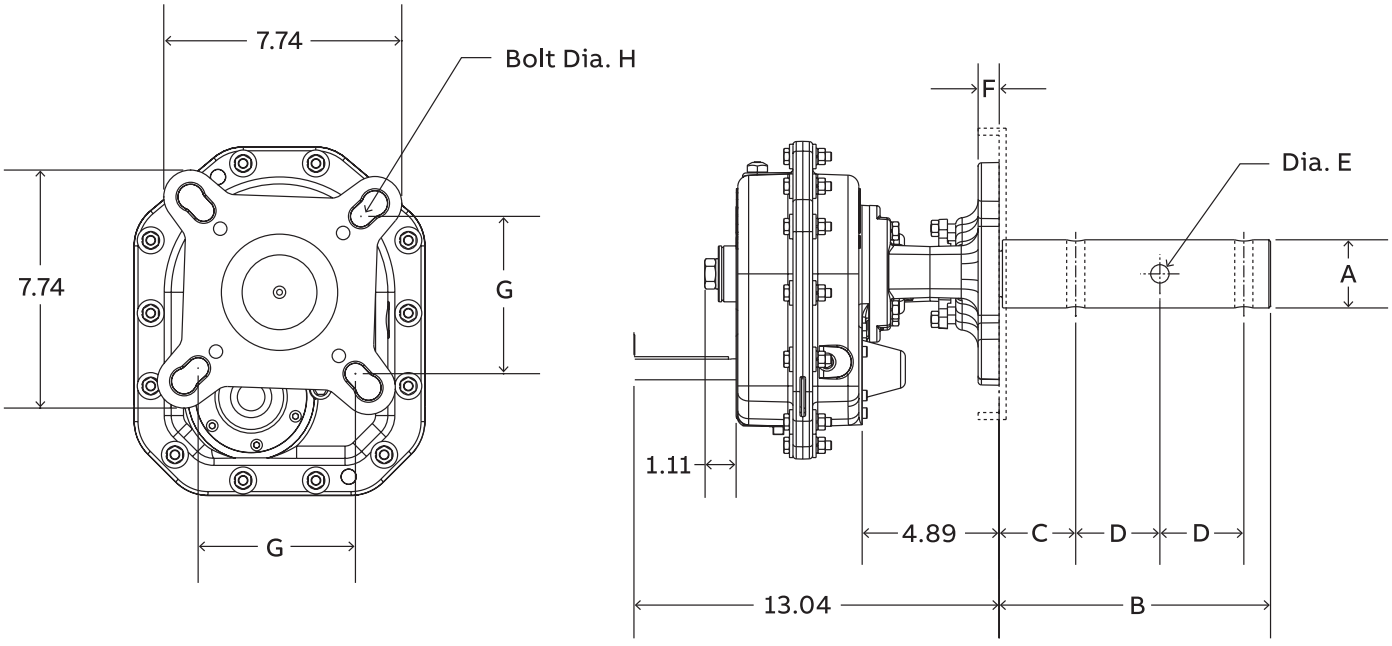
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

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

Closed bushing covers may not be compatible with belt guards or large sheave installations
Split bushing covers are designed for use on “driven machine” side of reducer with shaft through

TA0107L

Screw conveyor drive – single and double-reduction



All dimensions are in inches.

TA0107L

Screw conveyor drive – single and double-reduction

TA0107L screw conveyor drive dimensions

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

TA0107L accessories for screw conveyor drives [1] [4] [5]

Description	Part number	Weight (lb)
TA0107SCA Adapter and hardware kit [2]	900070	14.7
TA0107SCP Adjustable packing kit [3]	900071	0.9
TA0107SCS x 1-1/2 Driveshaft	900072	8.8
TA0107SCS x 2 Driveshaft	900073	12.0
TA0107SCS x 2-7/16 Driveshaft	900074	16.5
TA0107SCS x 3 Driveshaft	900075	22.8
TA0107SCS x 1-1/2 Stainless-steel driveshaft	900080	8.8
TA0107SCS x 2 Stainless-steel driveshaft	900081	12.0
TA0107SCS x 2-7/16 Stainless-steel driveshaft	900082	16.5
TA0107SCS x 3 Stainless-steel driveshaft	900083	22.8
TA0107MM Motor mount assembly (56—215T)	900090	35.4
TA0107BG Belt guard - Pos. C (56—215T) [1]	900097	42.2
TA0—TA3 Hydra-Lock desiccant breather Kit HLO	964372	2.0
XT Enclosed breather system, TA0-9	240050	2.0
OPTIFY Performance Sensor	820000	0.5

(1) Position C belt guards are the most popular for screw conveyor drive applications

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

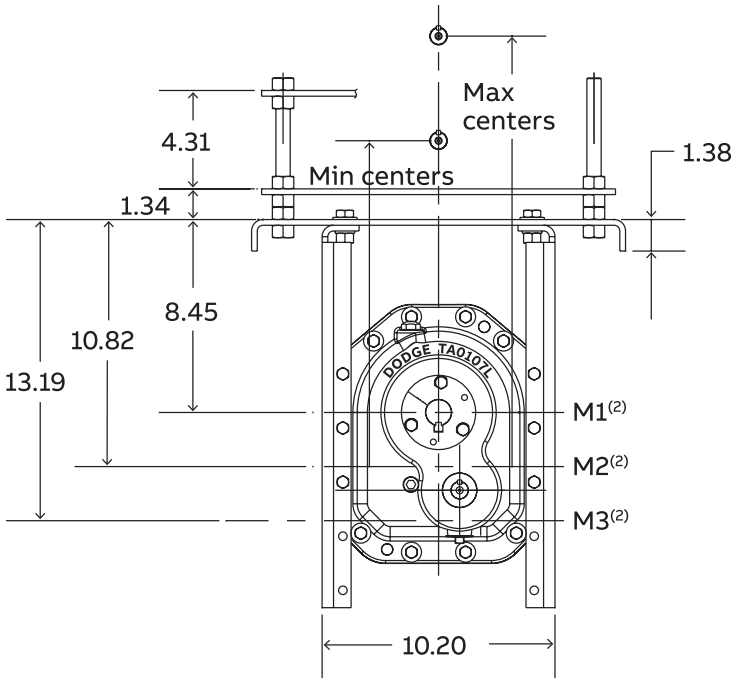
(3) SCP Adjustable packing kit consists of flange, mounting hardware, and braided packing seals

(4) SCS Driveshaft is a shaft only. Hardware is stocked with the adapter and hardware kit.

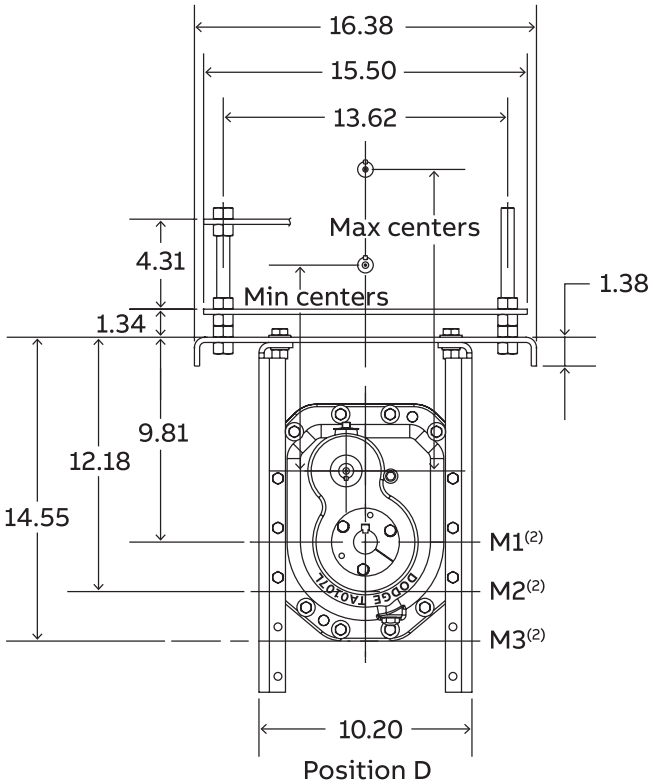
(5) A complete TA II screw conveyor drive, order a TA II reducer, SCA adapter and hardware kit, and SCS driveshaft. The SCP Adjustable packing kit is an optional accessory.

TA0107L

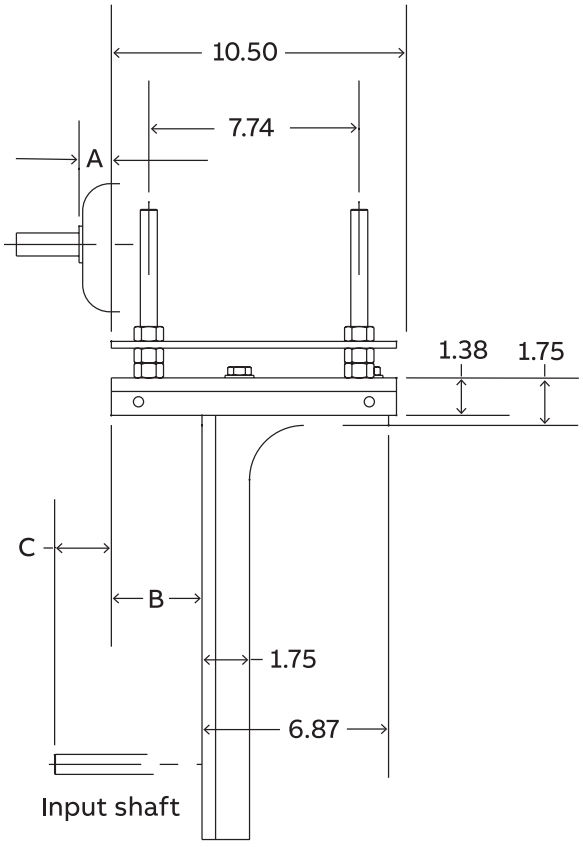
Motor mount dimensions – position B and D



Position B



Position D



All dimensions are in inches.

TA0107L

Motor mount dimensions – position B and D

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame					
						56			143T and 145T		
						A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max
Position B	-0.09	3.33	2.10	5.52	M1	0.78	17.2	21.0	1.22	17.2	21.0
					M2		19.6	23.4		19.6	23.4
					M3		22.0	25.8		22.0	25.8
Position D	-0.09	3.33	2.10	5.52	M1	0.78	11.8	15.6	1.22	11.8	15.6
					M2		14.1	17.9		14.1	17.9
					M3		16.5	20.3		16.5	20.3

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

Notes:

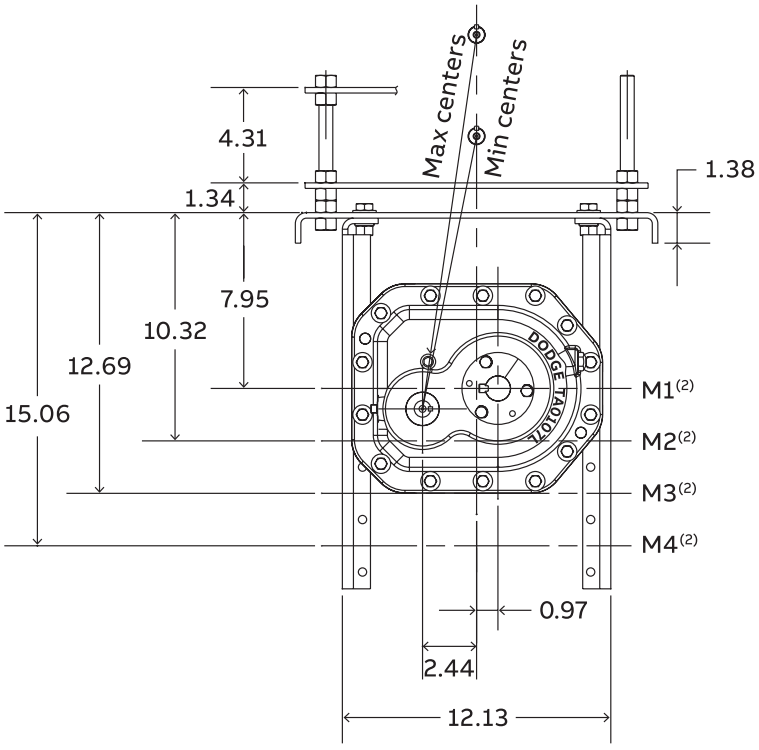
(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

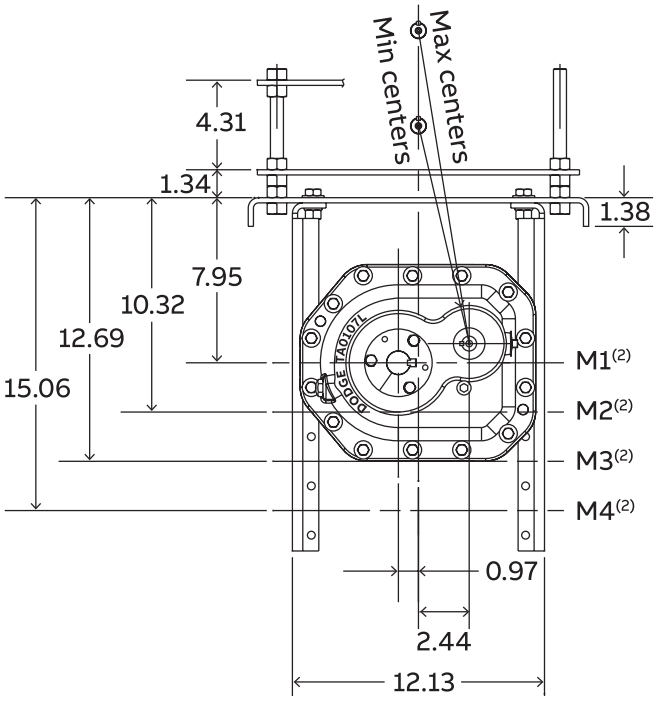
Minimum centers contain 0.5 inches to allow for belt assembly

TA0107L

Motor mount dimensions – position A and C

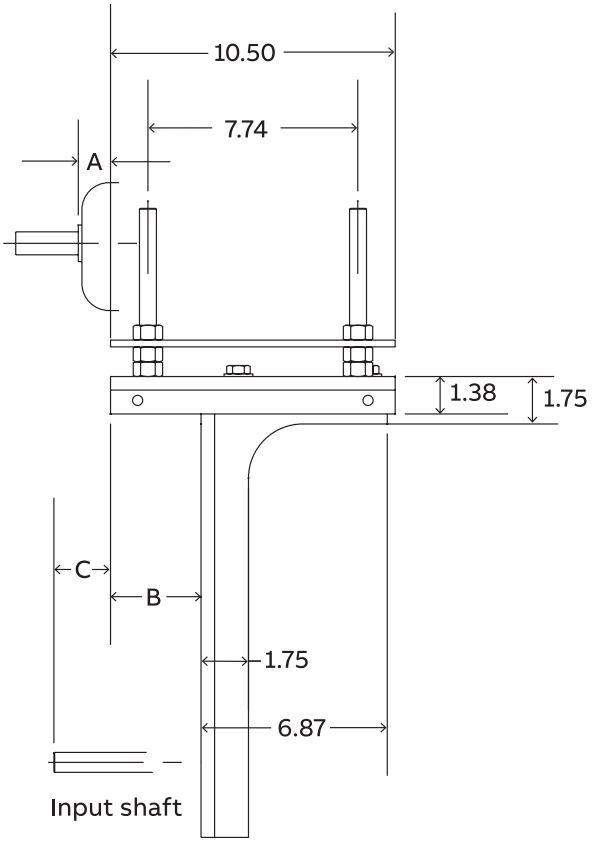


Position A



Position C

Most common



All dimensions are in inches.

TA0107L

Motor mount dimensions – position A and C

Mounting	Lateral adjustment				Motor mount height [2]	Motor frame					
						56			143T and 145T		
						A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max
Position A	-0.09	3.33	3.05	6.47	M1	0.78	14.4	18.2	1.22	14.4	18.2
					M2		16.8	20.5		16.8	20.5
					M3		19.1	22.9		19.1	22.9
					M4		21.5	25.2		21.5	25.2
Position C	-0.09	3.33	3.05	6.47	M1	0.78	12.6	16.4	1.22	12.6	16.4
					M2		14.9	18.7		14.9	18.7
					M3		17.3	21.1		17.3	21.1
					M4		19.6	23.4		19.6	23.4

Mounting	Lateral adjustment				Motor mount height [2]	Motor frame					
						182T and 184T			213T and 215T		
						A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max
Position A	-0.09	3.33	3.05	6.47	M1	1.37	15.4	19.2	1.55	16.2	19.9
					M2		17.8	21.5		18.5	22.3
					M3		20.1	23.9		20.8	24.6
					M4		22.5	26.2		23.2	27.0
Position C	-0.09	3.33	3.05	6.47	M1	1.37	13.6	17.4	1.55	14.3	18.1
					M2		15.9	19.7		16.7	20.4
					M3		18.3	22.1		19.0	22.8
					M4		20.6	24.4		21.4	25.2

Table A – Screw conveyor motor mount minimum "M" mounting positions [1]

Nominal screw Dia	Trough height Dim	Minimum mounting position							
		TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H
6	7.00	M2	M3	M2	M2	M2	M1	M1	M1
9	9.00	M3	M4	M3	M3	M2	M2	M2	M1
12	10.00	M4	M4	M3	M3	M2	M2	M2	M1
14	11.00	M4	M4	M4	M3	M3	M2	M2	M2
16	11.50	M4	M4	M4	M4	M3	M2	M2	M2
18	12.13	—	—	M4	M4	M3	M3	M2	M2
20	13.50	—	—	M4	M4	M3	M3	M3	M2
24	16.50	—	—	—	—	M4	M3	M3	M3

Notes:

(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

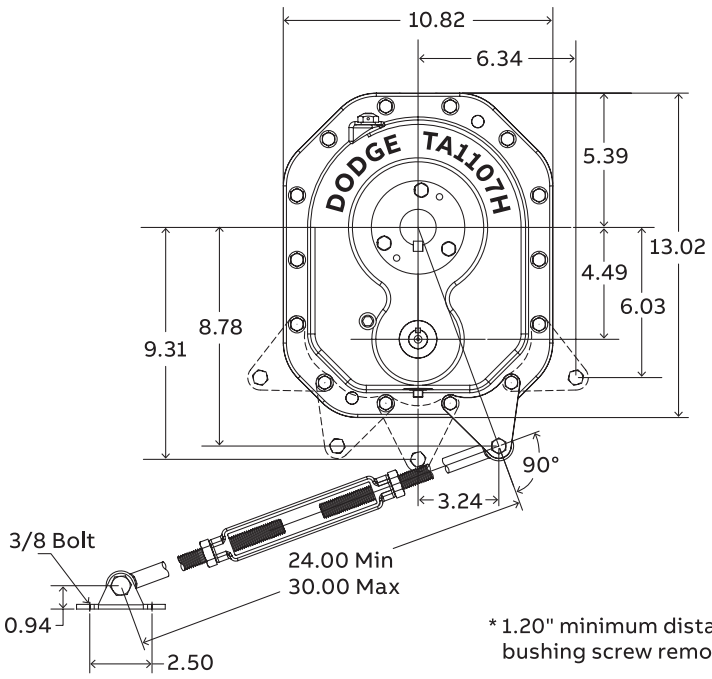
(2) M1, M2, M3 go through output shaft centerline

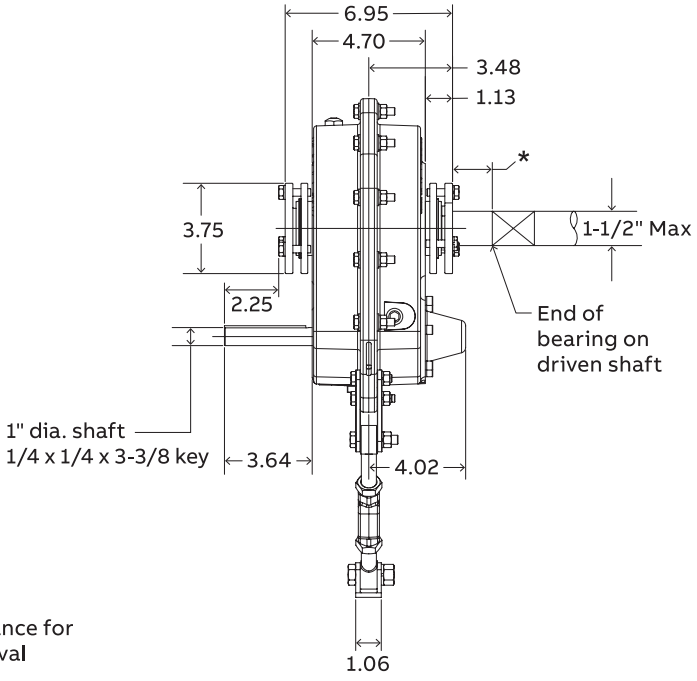
(3) See Table A below for minimum "M" mounting position required for specific screw diameter and reducer size

Minimum centers contain 0.5 inches to allow for belt assembly

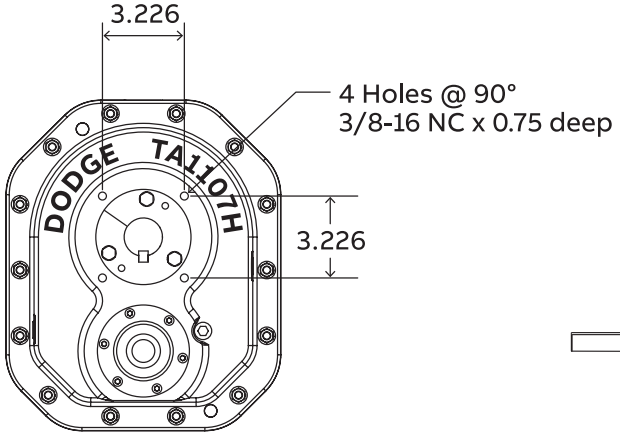
TA1107H

Taper-bushed reducers – single and double-reductions

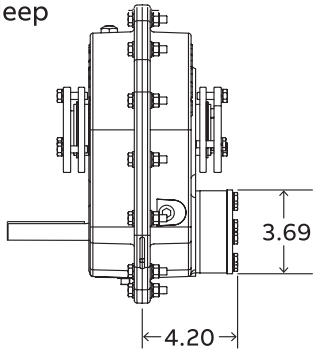




* 1.20" minimum distance for bushing screw removal



Flange mounting dimensions



Reducer with backstop

All dimensions are in inches.

TA1107H

Taper-bushed reducers – single and double-reductions

TA1107H taper-bushed reducers [1]

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TA1107H05	901004	107S05	5.00	55.4
TA1107H09	901003	107D09	8.99	56.8
TA1107H15	901002	107D15	14.91	56.7
TA1107H25	901001	107D25	25.06	56.7
TA1107H31	901000	107D31	30.91	56.8

TA1107H accessories

Description	Part number	Weight (lb)
TA1107RA Tie rod assembly +	901109	4.5
TA1107H/0107L BS Backstop assembly [2]	901102	3.9
TA1107MM Motor mount assembly (56-254T) [3]	901090	39.5
TA1107BG Belt guard - Pos. B (56-254T)	901096	40.6
TA1107BG Belt guard - Pos. C (56-254T) [4]	901097	42.2
TA1107BG Belt guard - Pos D (56-254T)	901099	43.0
TA0—TA3 Hydra-Lock desiccant breather kit HL0	964372	2.0
TA0107—TA9415 OPTIFY Breather OB1	750020	2.0
XT Enclosed breather system, TA0—9	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TA1107H - V-Ring kit	901249	0.1
TA1107H Lube kit	LUBEKITTA1107	4.6
TA0—TA3 - Vertical breather kit	900112	2.0

TA1107H tapered bushing kits [5] [6]

Bushing size			
Standard shaft bushing kit	Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA1107TB x 1-1/2	901020	3.3	3/8 x 3/16 x 6.95
TA1107TB x 1-7/16 ▲	901021	3.6	3/8 x 3/16 x 6.95

For smaller bushing sizes and bushings smaller than AGMA bore standards, contact Dodge Application Engineering at +1 864 284 5700 for shaft strength evaluation.

Bushing size			
Short shaft bushing kit [8]	Part number	Weight (lb)	Shaft keyseat required [9] [10]
TA1107TBS x 1-7/16	901030	3.7	3/8 x 3/16 x 4.43

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
TA1107H	901142	0.5	020545	2

TA II is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TA II reducer.

Shaft guard and kits

Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TA1107H	020569	3	TAShaftGuard-01	5

Kits include adapter and extension for that size reducer.

▲ AGMA maximum bore size

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

(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.

(2) See page G1-112 for input shaft speed necessary for backstop sprag lift-off

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

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

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

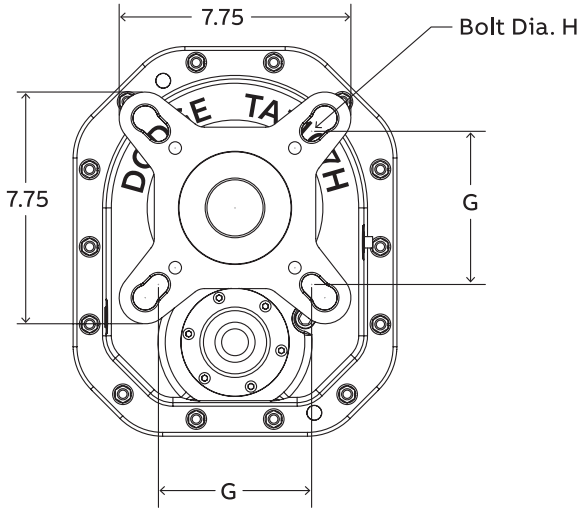
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

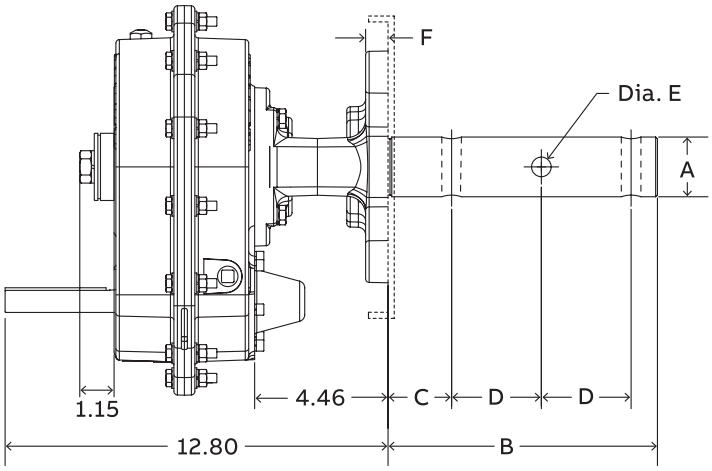
(10) Always check the driven shaft and key for strength

Closed bushing covers may not be compatible with belt guards or large sheave installations
Split bushing covers are designed for use on “driven machine” side of reducer with shaft through

TA1107H

Screw conveyor drive – single and double-reductions





All dimensions are in inches.

TA1107H

Screw conveyor drive – single and double-reductions

TA1107H screw conveyor drive dimensions

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

TA1107H accessories for screw conveyor drives [1] [4] [5]

Description	Part number	Weight (lb)
TA1107SCA Adapter and hardware kit [2]	901070	15.2
TA1107SCP Adjustable packing kit [3]	901071	0.8
TA1107SCS x 1-1/2 Driveshaft	901072	10.3
TA1107SCS x 2 Driveshaft	901073	13.5
TA1107SCS x 2-7/16 Driveshaft	901074	18.1
TA1107SCS x 3 Driveshaft	901075	24.4
TA1107SCS x 1-1/2 Stainless-steel driveshaft	901080	10.3
TA1107SCS x 2 Stainless-steel driveshaft	901081	13.5
TA1107SCS x 2-7/16 Stainless-steel driveshaft	901082	18.1
TA1107SCS x 3 Stainless-steel driveshaft	901083	24.4
TA1107MM Motor mount assembly (56-254T)	901090	39.5
TA1107BG Belt guard - Pos. C (56-254T) [1]	901097	47.2
TA0—TA3 Hydra-Lock desiccant breather Kit HLO	964372	2.0
XT Enclosed breather system, TA0-9	240050	2.0
OPTIFY Performance Sensor	820000	0.5

(1) Position C belt guards are the most popular for screw conveyor drive applications

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

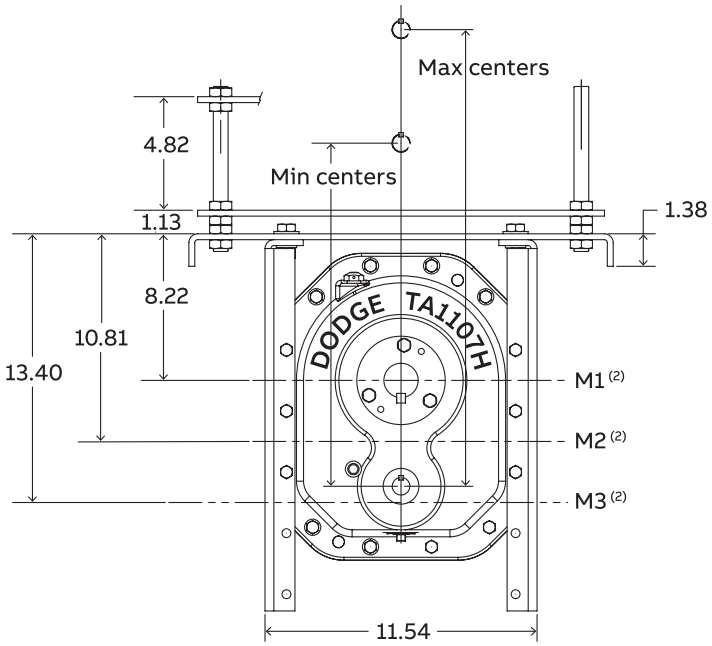
(3) SCP Adjustable packing kit consists of flange, mounting hardware, and braided packing seals

(4) SCS Driveshaft is a shaft only. Hardware is stocked with the adapter and hardware kit.

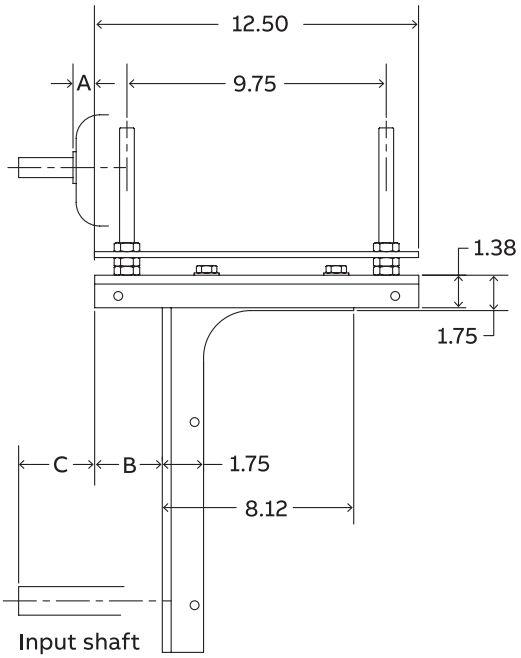
(5) To complete TA II screw conveyor drive, order a TA II reducer, SCA adapter and hardware kit, and SCS driveshaft. The SCP adjustable packing kit is an optional accessory.

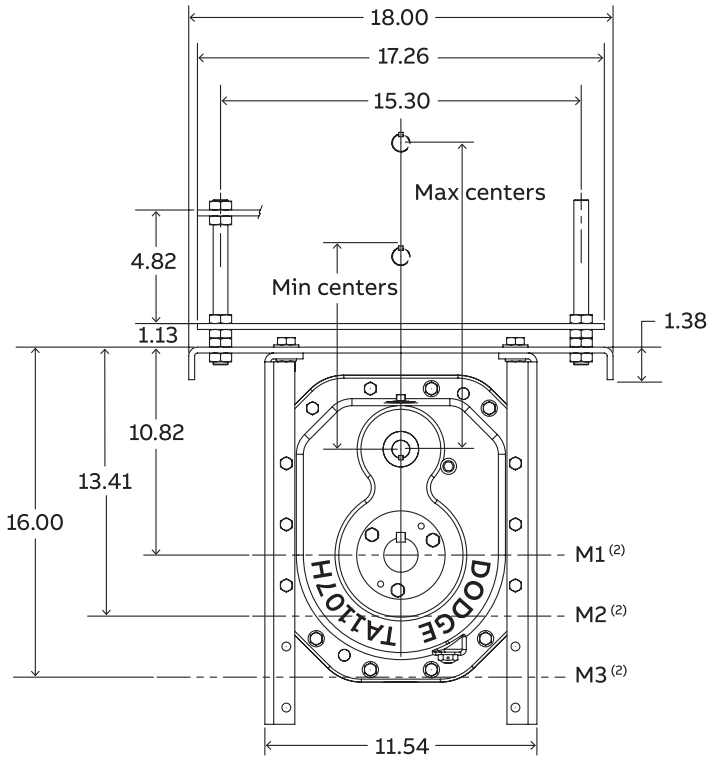
TA1107H

Motor mount dimensions – position B and D



Position B





Position D

All dimensions are in inches.

TA1107H

Motor mount dimensions – position B and D

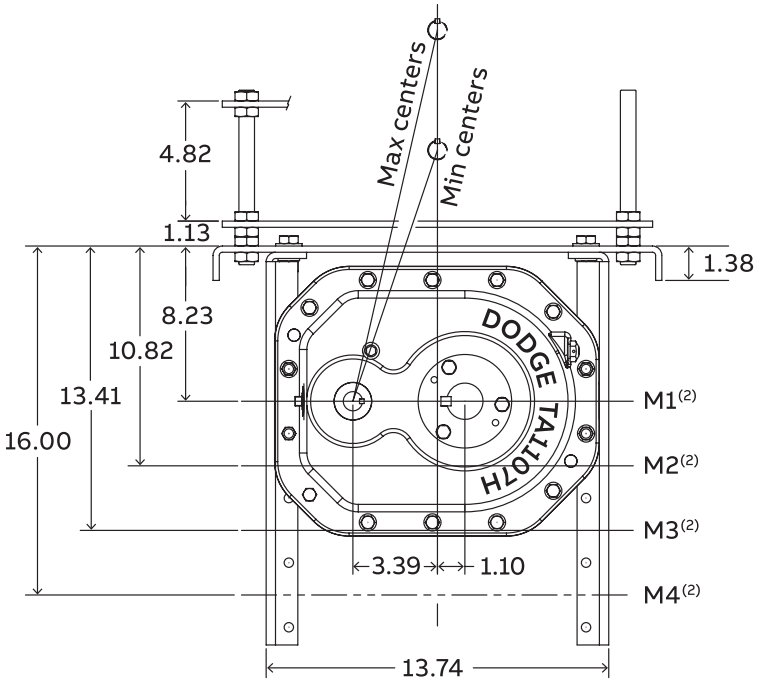
Mounting	Lateral adjustment				Motor mount height [2]	Motor frame					
						56			143T and 145T		
						A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max
Position B	-0.09	3.33	2.10	5.48	M1	0.78	17.7	22.0	1.22	17.7	22.0
					M2		20.3	24.6		20.3	24.6
					M3		22.9	27.2		22.9	27.2
Position D	-0.09	3.33	2.10	5.48	M1	0.78	11.3	15.7	1.22	11.3	15.7
					M2		13.9	18.2		13.9	18.2
					M3		16.5	20.8		16.5	20.8

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

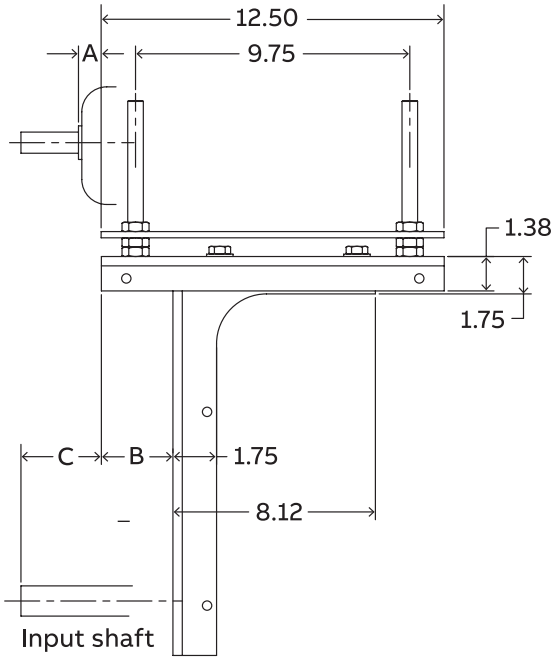
Notes:
(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.
(2) See page G1-112 for input shaft speed necessary for backstop sprag lift-off
Minimum centers contain 0.5 inches to allow for belt assembly

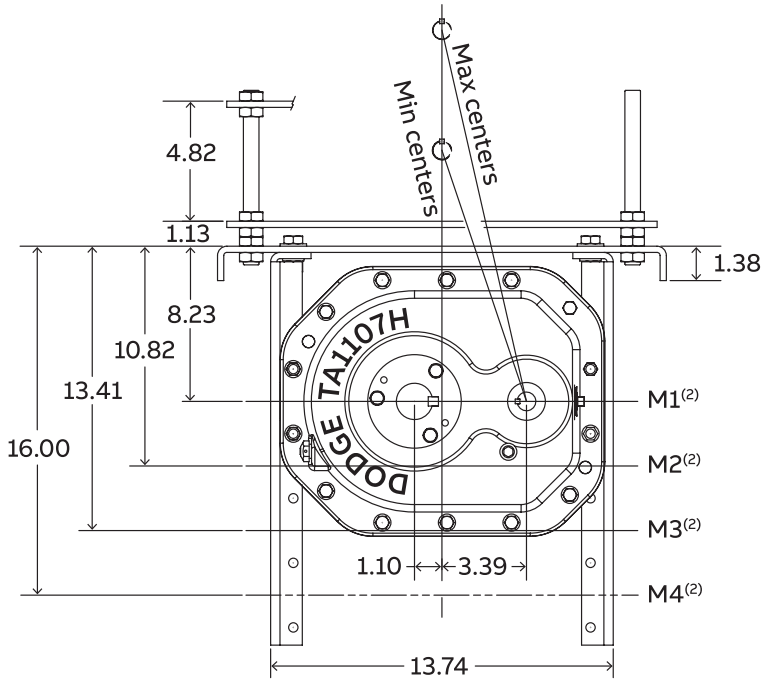
TA1107H

Motor mount dimensions – position A and C



Position A





Position C

All dimensions are in inches.

TA1107H

Motor mount dimensions – position A and C

Mounting	Lateral adjustment				Motor mount height [2]	Motor frame					
						56			143T and 145T		
						A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max
Position A	-0.09	3.33	3.01	6.43	M1	0.78	13.8	17.9	1.22	13.8	17.9
					M2		16.2	20.5		16.2	20.5
					M3		18.8	23.0		18.8	23.0
					M4		21.3	25.6		21.3	25.6
Position C	-0.09	3.33	3.01	6.43	M1	0.78	13.8	17.9	1.22	13.8	17.9
					M2		16.2	20.5		16.2	20.5
					M3		18.8	23.0		18.8	23.0
					M4		21.3	25.6		21.3	25.6

Mounting	Motor mount height [2]	Motor frame								
		182T and 184T			213T and 215T			254T		
		A	Centers		A	Centers		A	Centers	
			Min	Max		Min	Max		Min	Max
Position A	M1	1.37	14.7	18.9	1.55	15.4	19.6	1.56	16.4	20.6
	M2		17.2	21.4		17.9	22.2		18.9	23.2
	M3		19.7	24.0		20.5	24.7		21.5	25.7
	M4		22.3	26.6		23.0	27.3		24.0	28.3
Position C	M1	1.37	14.7	18.9	1.55	15.4	19.6	1.56	16.4	20.6
	M2		17.2	21.4		17.9	22.2		18.9	23.2
	M3		19.7	24.0		20.5	24.7		21.5	25.7
	M4		22.3	26.6		23.0	27.3		24.0	28.3

Table A – Screw conveyor motor mount minimum "M" mounting positions [4]

Nominal screw Dia	Trough height Dim	Minimum mounting position							
		TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H
6	7.00	M2	M3	M2	M2	M2	M1	M1	M1
9	9.00	M3	M4	M3	M3	M2	M2	M2	M1
12	10.00	M4	M4	M3	M3	M2	M2	M2	M1
14	11.00	M4	M4	M4	M3	M3	M2	M2	M2
16	11.50	M4	M4	M4	M4	M3	M2	M2	M2
18	12.13	—	—	M4	M4	M3	M3	M2	M2
20	13.50	—	—	M4	M4	M3	M3	M3	M2
24	16.50	—	—	—	—	M4	M3	M3	M3

Notes:

(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

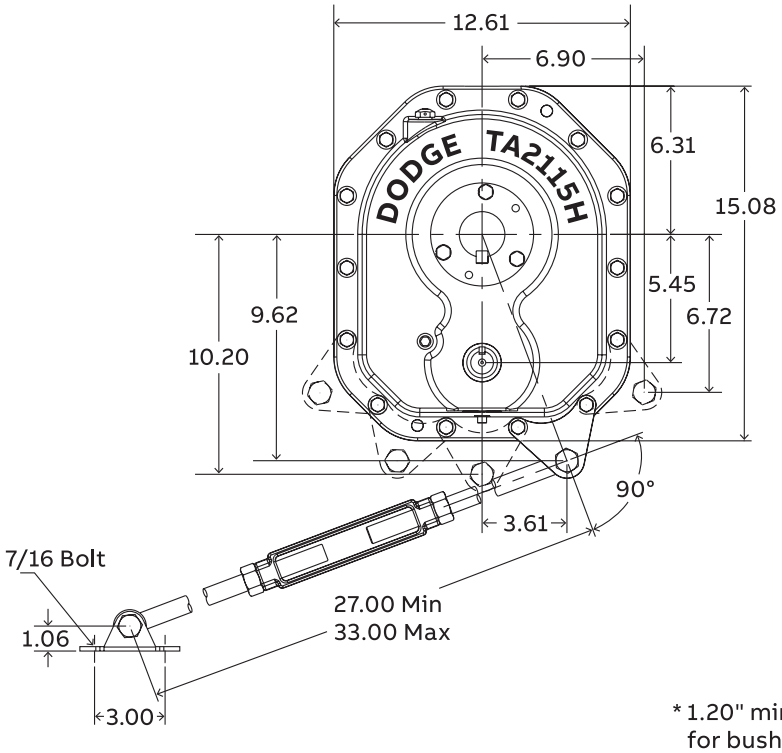
(3) See Table A below for minimum "M" mounting position required for specific screw diameter and reducer size

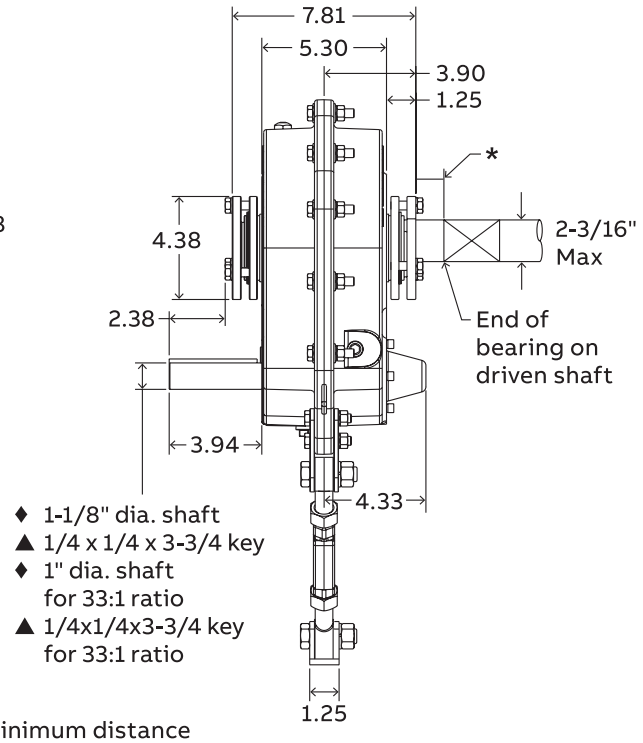
(4) For U or flared trough ends per CEMA 300—014

Minimum centers contain 0.5 inches to allow for belt assembly

TA2115H

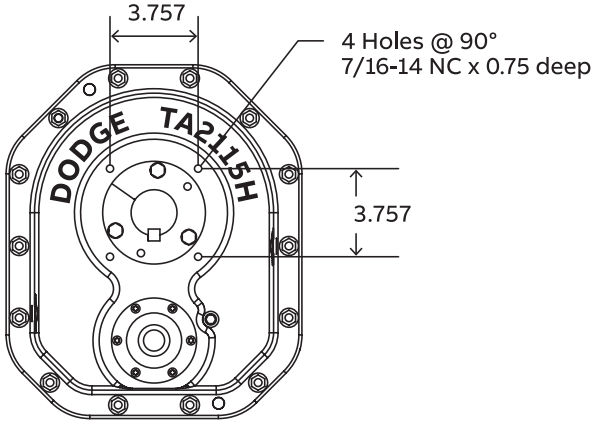
Taper-bushed reducers – single and double-reductions



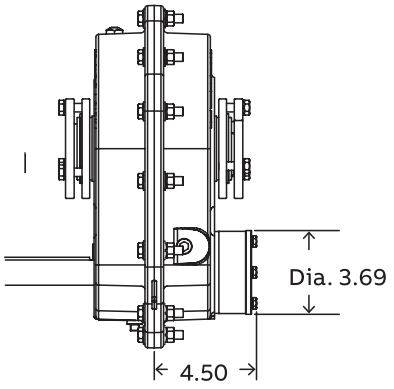


♦ 1-1/8" dia. shaft
▲ 1/4 x 1/4 x 3-3/4 key
♦ 1" dia. shaft
for 33:1 ratio
▲ 1/4x1/4x3-3/4 key
for 33:1 ratio

* 1.20" minimum distance
for bushing screw removal



Flange mounting dimensions



Reducer with backstop

All dimensions are in inches.

TA2115H

Taper-bushed reducers – single and double-reductions

TA2115H taper-bushed reducers [1]

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TA2115H05	902004	115S05	5.20	84.2
TA2115H09	902003	115D09	9.10	86.5
TA2115H15	902002	115D15	15.62	86.3
TA2115H25	902001	115D25	25.07	86.1
TA2115H33	902000	115D33	33.33	85.7

TA2115H accessories

Description	Part number	Weight (lb)
TA2115RA Tie rod assembly +	902109	6.9
TA2115BS Backstop assembly [2]	902102	3.9
TA2115MM Motor mount assembly (56—256T) [3]	902090	52.6
TA2115BG Belt guard - Pos. B (56—256T)	902096	47.7
TA2115BG Belt guard - Pos. C (56—256T) [4]	902097	52.1
TA2115BG Belt guard - Pos. D (56—256T)	902099	51.0
TA0—TA3 Hydra-Lock desiccant breather kit HL0	964372	2.0
TA0107—TA9415 OPTIFY Breather OB1	750020	2.0
XT Enclosed breather system, TA0—9	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TA2115H V-Ring kit	902249	0.2
TA2115H Lube kit	LUBEKITTA2115	8.1
TA0—TA3 Vertical breather kit	900112	2.0

TA2115H tapered bushing kits [5] [6]

Bushing size Standard shaft bushing kit		Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA2115TB x 2-3/16		902020	4.7	1/2 x 1/4 x 7.80
TA2115TB x 2		902022	5.2	1/2 x 1/4 x 7.80
TA2115TB x 1-15/16 ▲		902023	5.4	1/2 x 1/4 x 7.80
TA2115TB x 1-3/4		902025	5.8	3/8 x 3/16 x 7.80
TA2115TB x 1-11/16		902026	6.1	3/8 x 3/16 x 7.80
TA2115TB x 1-1/2	ø	902028	6.4	3/8 x 3/16 x 7.80
TA2115TB x 1-7/16	ø	902029	6.4	3/8 x 3/16 x 7.80

For smaller bushing sizes and bushings smaller than AGMA bore standards, contact Dodge Application Engineering at +1 864 284 5700 for shaft strength evaluation.

Bushing size Short shaft bushing kit [8]	Part number	Weight (lb)	Shaft keyseat required [9] [10]
TA2115TBS x 1-15/16	902030	5.6	1/2 x 1/4 x 4.80
TA2115TBS x 1-7/16	902036	5.6	3/8 x 3/16 x 4.80

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
TA2115H	902142	0.5	020546	3

TA II is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TA II reducer.

Shaft guard and kits

Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TA2115H	020570	4	TAShaftGuard-02	7

Kits include adapter and extension for that size reducer.

▲ AGMA maximum bore size

ø Check driven shaft strength against torque requirements and assembly weight

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

(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.

(2) See page G1-112 for input shaft speed necessary for backstop sprag lift-off

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

(4) Use position C belt guard for TA II reducers in screw conveyor drive applications

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

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

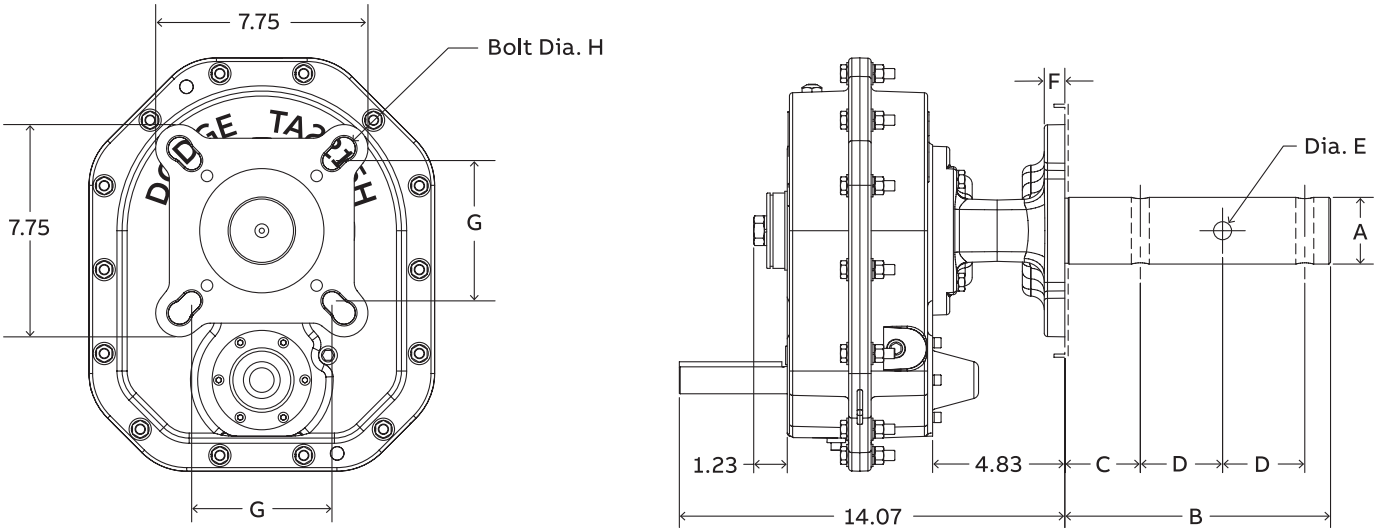
(10) Always check the driven shaft and key for strength

Closed bushing covers may not be compatible with belt guards or large sheave installations

Split bushing covers are designed for use on “driven machine” side of reducer with shaft through

TA2115H

Screw conveyor drive – single and double-reductions



All dimensions are in inches.

TA2115H

Screw conveyor drive – single and double-reductions

TA2115H screw conveyor drive dimensions

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

TA2115H accessories for screw conveyor drives [1] [4] [5]

Description	Part number	Weight (lb)
TA2115SCA Adapter and hardware kit [2]	902070	19.2
TA2115SCP Adjustable packing kit [3]	902071	1.2
TA2115SCS x 1-1/2 Driveshaft	902072	15.4
TA2115SCS x 2 Driveshaft	902073	18.6
TA2115SCS x 2-7/16 Driveshaft	902074	23.3
TA2115SCS x 3 Driveshaft	902075	29.5
TA2115SCS x 1-1/2 Stainless-steel driveshaft	902080	15.4
TA2115SCS x 2 Stainless-steel driveshaft	902081	18.6
TA2115SCS x 2-7/16 Stainless-steel driveshaft	902082	23.3
TA2115SCS x 3 Stainless-steel driveshaft	902083	29.5
TA2115MM Motor mount assembly (56—256T)	902090	56.5
TA2115BG Belt guard - Pos. C (56—256T) [1]	902097	47.7
TA0—TA3 Hydra-Lock desiccant breather Kit HLO	964372	2.0
XT Enclosed breather system, TA0-9	240050	2.0
OPTIFY Performance Sensor	820000	0.5

(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.

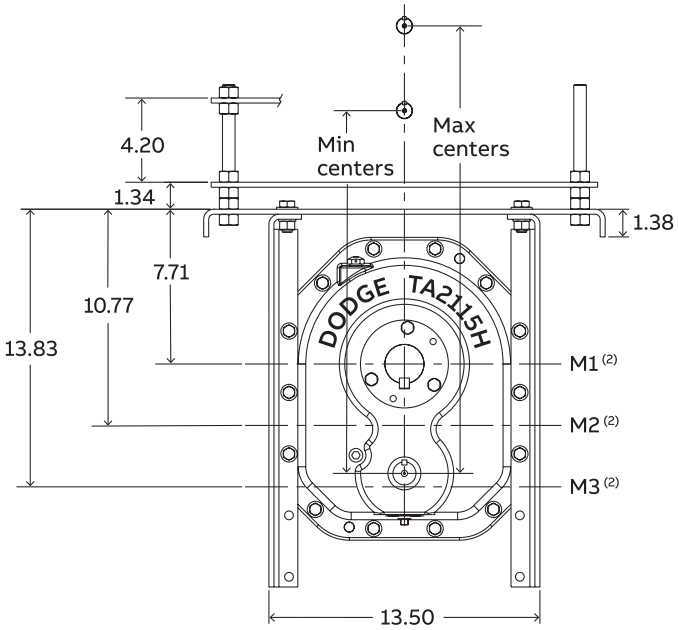
(2) Motor mount will fit NEMA and IEC frame motors; however motor mount hardware are in inch dimensions.

(3) Use position C belt guard for TA II reducers in screw conveyor drive applications

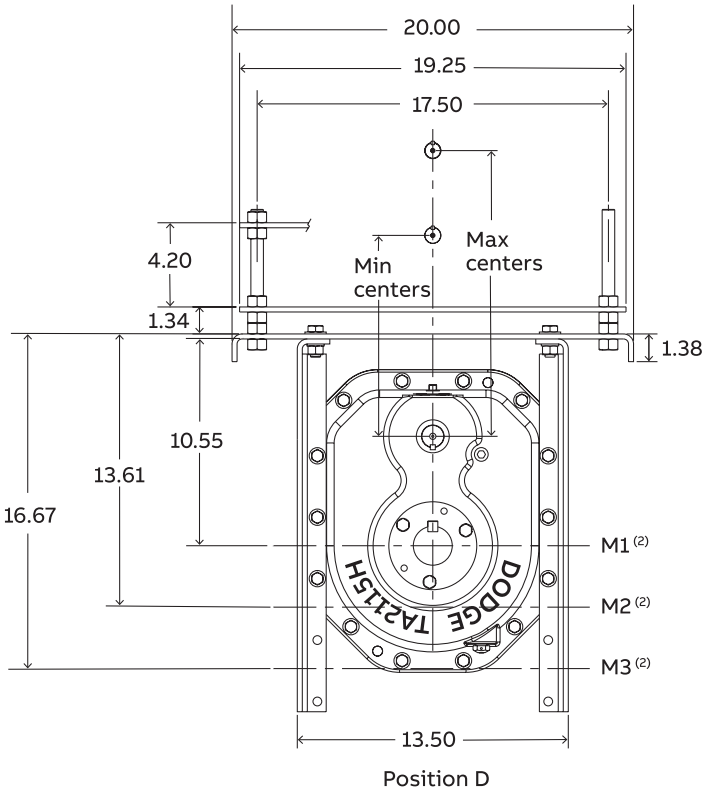
(4) Bushing kit required to mount TA II reducer to driven shaft. The SCP adjustable packing kit is an optional accessory.

TA2115H

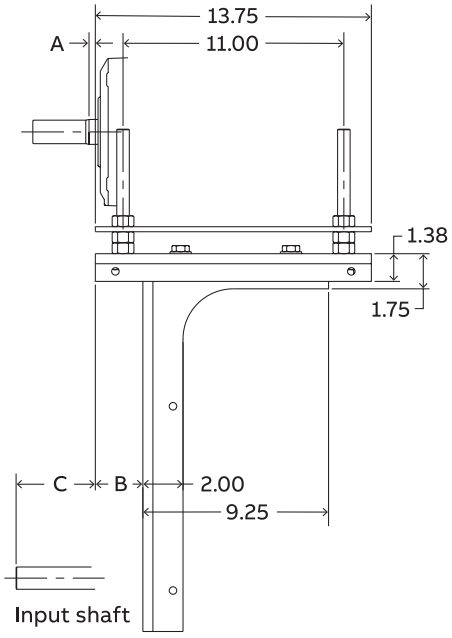
Motor mount dimensions – position B and D



Position B



Position D



All dimensions are in inches.

TA2115H

Motor mount dimensions – position B and D

Mounting	Lateral adjustment				Motor mount height [2]	Motor frame					
						56			143T and 145T		
						A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max
Position B	0.19	3.61	2.32	5.74	M1	0.78	18.5	22.2	1.22	18.5	22.2
					M2		21.6	25.3		21.6	25.3
					M3		24.6	28.3		24.6	28.3
Position D	0.19	3.61	2.32	5.74	M1	0.78	10.4	14.1	1.22	10.4	14.1
					M2		13.5	17.2		13.5	17.2
					M3		16.6	20.3		16.6	20.3

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

Notes:

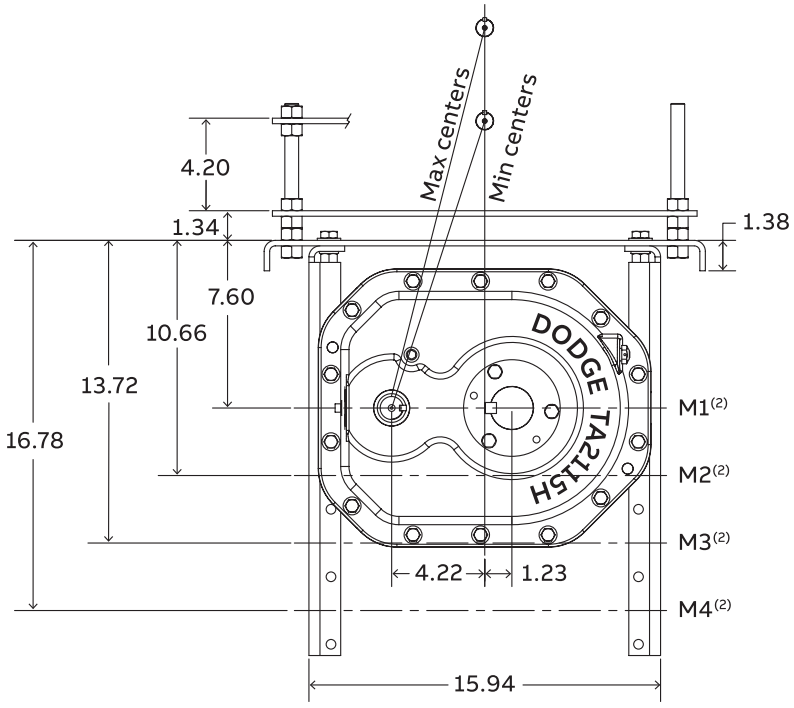
(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

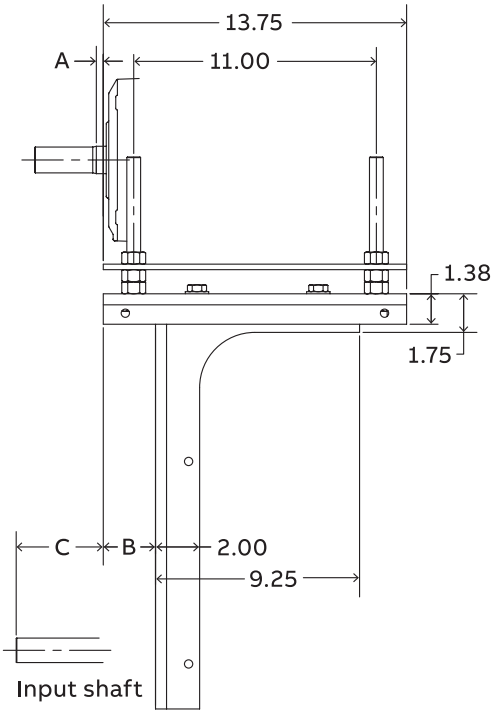
Minimum centers contain 0.5 inches to allow for belt assembly

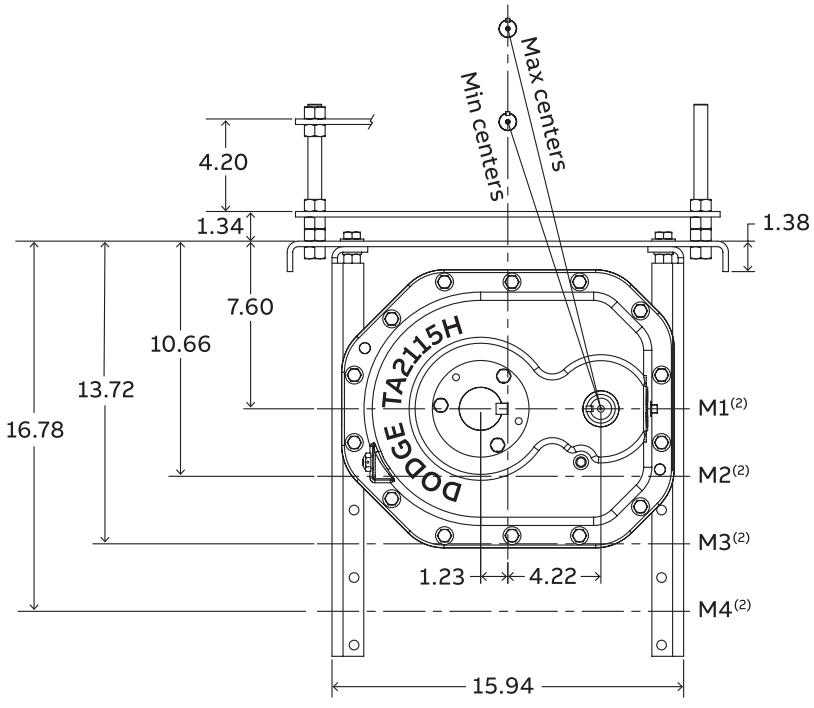
TA2115H

Motor mount dimensions – position A and C



Position A





Position C

All dimensions are in inches.

TA2115H

Motor mount dimensions – position A and C

Mounting	Lateral adjustment				Motor mount height [2]	Motor frame					
						56			143T and 145T		
						A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max
Position A	0.19	3.61	3.39	6.81	M1	0.78	13.6	17.2	1.22	13.6	17.2
					M2		16.6	20.1		16.6	20.1
					M3		19.5	23.1		19.5	23.1
					M4		22.5	26.2		22.5	26.2
Position C	0.19	3.61	3.39	6.81	M1	0.78	13.6	17.2	1.22	13.6	17.2
					M2		16.6	20.1		16.6	20.1
					M3		19.5	23.1		19.5	23.1
					M4		22.5	26.2		22.5	26.2

Mounting	Motor mount height [2]	Motor frame								
		182T and 184T			213T and 215T			254T and 256T		
		A	Centers		A	Centers		A	Centers	
			Min	Max		Min	Max		Min	Max
Position A	M1	1.37	14.6	18.1	1.55	15.3	18.9	1.56	16.3	19.8
	M2		17.5	21.1		18.3	21.9		19.2	22.8
	M3		20.5	24.1		21.2	24.9		22.2	25.9
	M4		23.5	27.1		24.2	27.9		25.2	28.9
Position C	M1	1.37	14.6	18.1	1.55	15.3	18.9	1.56	16.3	19.8
	M2		17.5	21.1		18.3	21.9		19.2	22.8
	M3		20.5	24.1		21.2	24.9		22.2	25.9
	M4		23.5	27.1		24.2	27.9		25.2	28.9

Table A – Screw conveyor motor mount minimum "M" mounting positions [4]

Nominal screw Dia	Trough height Dim	Minimum mounting position							
		TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H
6	7.00	M2	M3	M2	M2	M2	M1	M1	M1
9	9.00	M3	M4	M3	M3	M2	M2	M2	M1
12	10.00	M4	M4	M3	M3	M2	M2	M2	M1
14	11.00	M4	M4	M4	M3	M3	M2	M2	M2
16	11.50	M4	M4	M4	M4	M3	M2	M2	M2
18	12.13	—	—	M4	M4	M3	M3	M2	M2
20	13.50	—	—	M4	M4	M3	M3	M3	M2
24	16.50	—	—	—	—	M4	M3	M3	M3

Notes:

(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

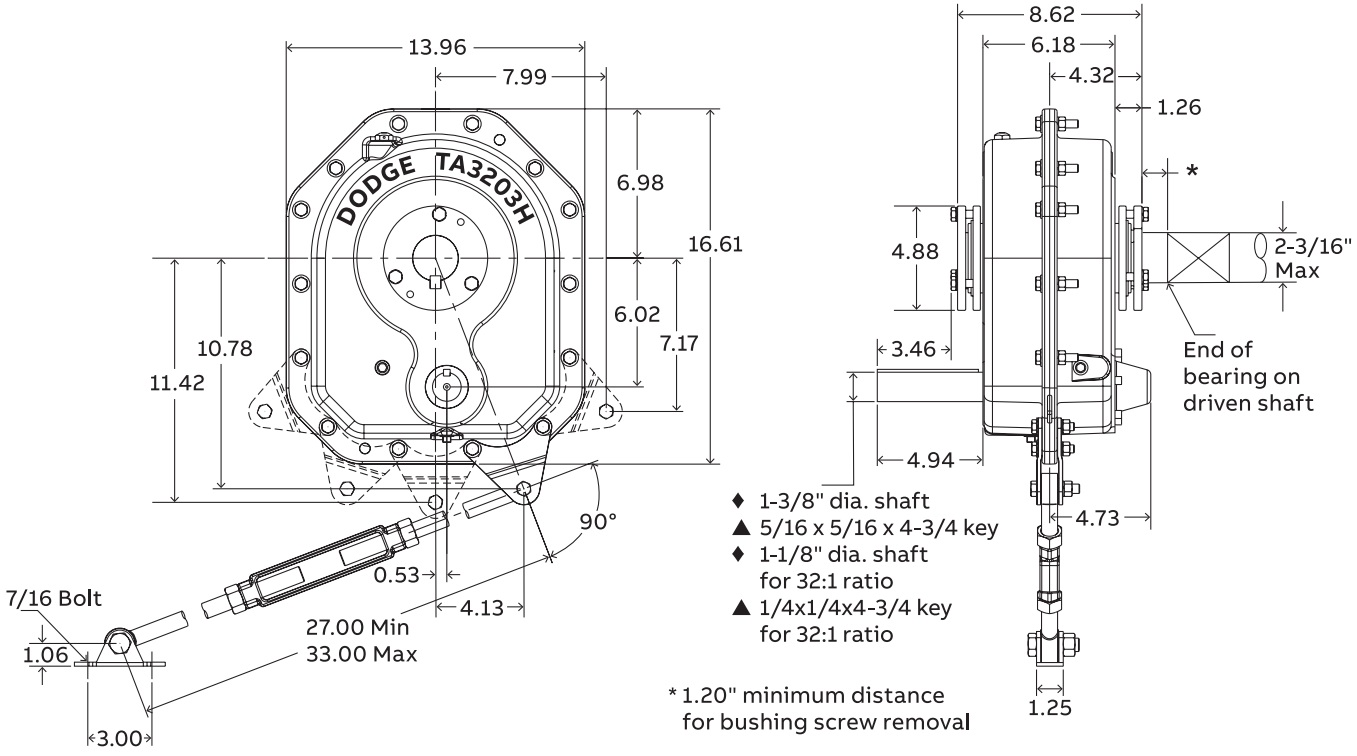
(3) See Table A below for minimum "M" mounting position required for specific screw diameter and reducer size

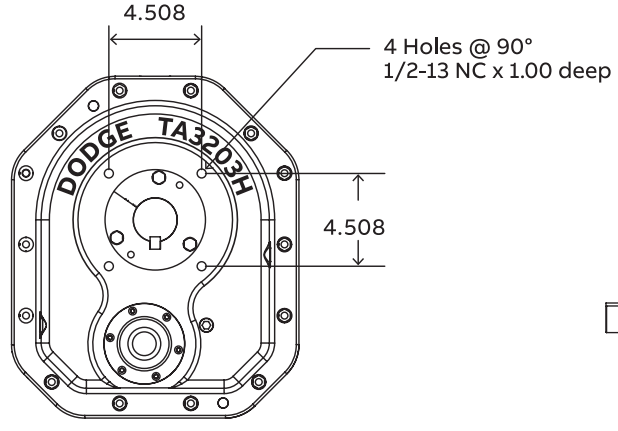
(4) For U or flared trough ends per CEMA 300—014

Minimum centers contain 0.5 inches to allow for belt assembly

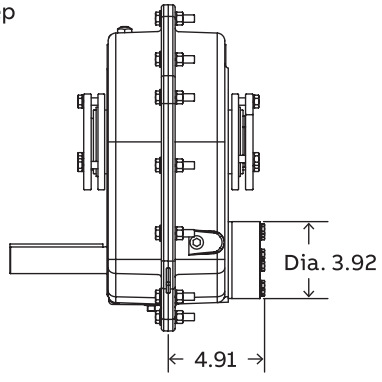
TA3203H

Taper-bushed reducers – single and double-reductions





Flange mounting dimensions



Reducer with backstop

All dimensions are in inches.

TA3203H

Taper-bushed reducers – single and double-reductions

TA3203H taper-bushed reducers [1]

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TA3203H05	903004	203S05	4.91	107.9
TA3203H09	903003	203D09	9.23	112.0
TA3203H15	903002	203D15	15.07	111.8
TA3203H25	903001	203D25	24.95	111.4
TA3203H32	903000	203D32	32.45	110.3

TA3203H accessories

Description	Part number	Weight (lb)
TA3203RA Tie rod assembly +	903109	6.9
TA3203BS Backstop assembly [2]	903102	4.7
TA3203MM Motor mount assembly (143—286T) [3]	903090	86.7
TA3203BG Belt guard - Pos. B (143—286T)	903096	65.5
TA3203 Belt guard assembly—Pos. B, M2	903101	55.0
TA3203BG Belt guard - Pos. C (143—286T) [4]	903097	67.9
TA3203BG Belt guard - Pos. D (143—286T)	903099	67.0
TA0—TA3 Hydra-Lock desiccant breather kit HL0	964372	2.0
TA0107—TA9415 OPTIFY Breather OB1	750020	2.0
XT Enclosed breather system, TA0—9	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TA3203H V-Ring kit	903249	0.2
TA3203H Lube kit	LUBEKITTA3203	10.4
TA0—TA3 Vertical breather kit	900112	2.0

TA3203H tapered bushing kits [5] [6]

Bushing size			
Standard shaft bushing kit	Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA3203TB x 2-3/8	903020	6.1	5/8 x 5/16 x 8.55
TA3203TB x 2-3/16 ▲	903022	6.8	1/2 x 1/4 x 8.55
TA3203TB x 1-15/16	903025	7.8	1/2 x 1/4 x 8.55

For smaller bushing sizes and bushings smaller than AGMA bore standards, contact Dodge Application Engineering at +1 864 284 5700 for shaft strength evaluation.

Bushing size			
Short shaft bushing kit [8]	Part number	Weight (lb)	Shaft keyseat required [9] [10]
TA3203TBS x 2-3/16	903030	7.0	1/2 x 1/4 x 5.46
TA3203TBS x 1-15/16	903033	7.0	1/2 x 1/4 x 5.46

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
TA3203H	903142	0.6	020547	3

TA II is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TA II reducer.

Shaft guard and kits

Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TA3203H	020571	4	TAShaftGuard-03	7

Kits include adapter and extension for that size reducer.

▲ AGMA maximum bore size

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

(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.

(2) See page G1-112 for input shaft speed necessary for backstop sprag lift-off

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

(4) Use position C belt guard for TA II reducers in screw conveyor drive applications

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

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

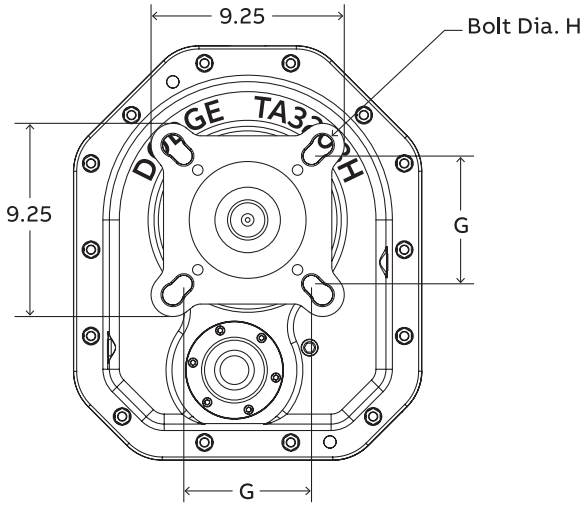
(10) Always check the driven shaft and key for strength

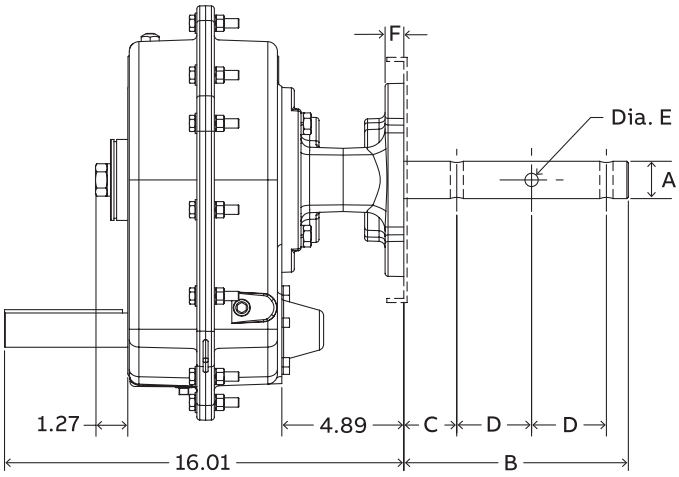
Closed bushing covers may not be compatible with belt guards or large sheave installations

Split bushing covers are designed for use on “driven machine” side of reducer with shaft through

TA3203H

Screw conveyor drive – single and double-reductions





All dimensions are in inches.

TA3203H

Screw conveyor drive – single and double-reductions

TA3203H screw conveyor drive dimensions

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

TA3203H accessories for screw conveyor drives [1] [4] [5]

Description	Part number	Weight (lb)
TA3203SCA Adapter and hardware kit [2]	903070	22.0
TA3203SCP Adjustable packing kit [3]	903071	1.4
TA3203SCS x 1-1/2 Driveshaft	903072	19.3
TA3203SCS x 2 Driveshaft	903073	22.6
TA3203SCS x 2-7/16 Driveshaft	903074	27.2
TA3203SCS x 3 Driveshaft	903075	33.6
TA3203SCS x 3-7/16 Driveshaft	903076	44.8
TA3203SCS x 1-1/2 Stainless-steel driveshaft	903080	19.3
TA3203SCS x 2 Stainless-steel driveshaft	903081	22.6
TA3203SCS x 2-7/16 Stainless-steel driveshaft	903082	27.2
TA3203SCS x 3 Stainless-steel driveshaft	903083	33.6
TA3203SCS x 3-7/16 Stainless-steel driveshaft	903084	44.8
TA3203MM Motor mount assembly (56-286T)	903090	86.7
TA3203BG Belt guard - Pos. C (56-286T) [1]	903097	67.9
TA0—TA3 Hydra-Lock desiccant breather Kit HLO	964372	2.0
XT Enclosed breather system, TA0-9	240050	2.0
OPTIFY Performance Sensor	820000	0.5

(1) Position C belt guards are the most popular for screw conveyor drive applications

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

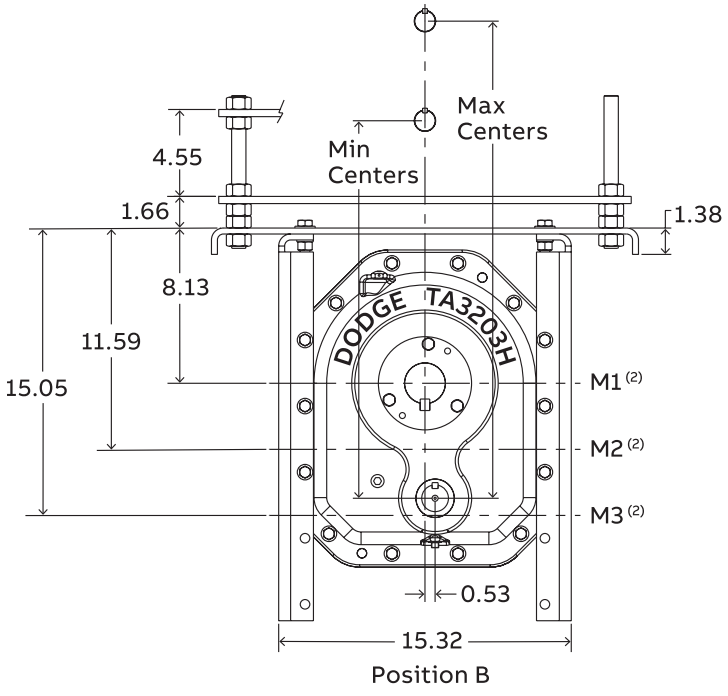
(3) SCP Adjustable packing kit consists of flange, mounting hardware, and braided packing seals

(4) SCS Driveshaft is a shaft only. Hardware is stocked with the adapter and hardware kit.

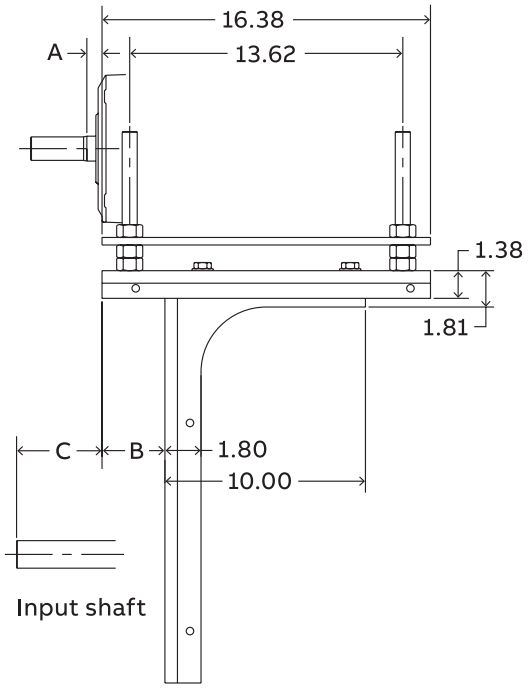
(5) To complete TA II screw conveyor drive, order a TA II reducer, SCA adapter and hardware kit, and SCS driveshaft. The SCP adjustable packing kit is an optional accessory.

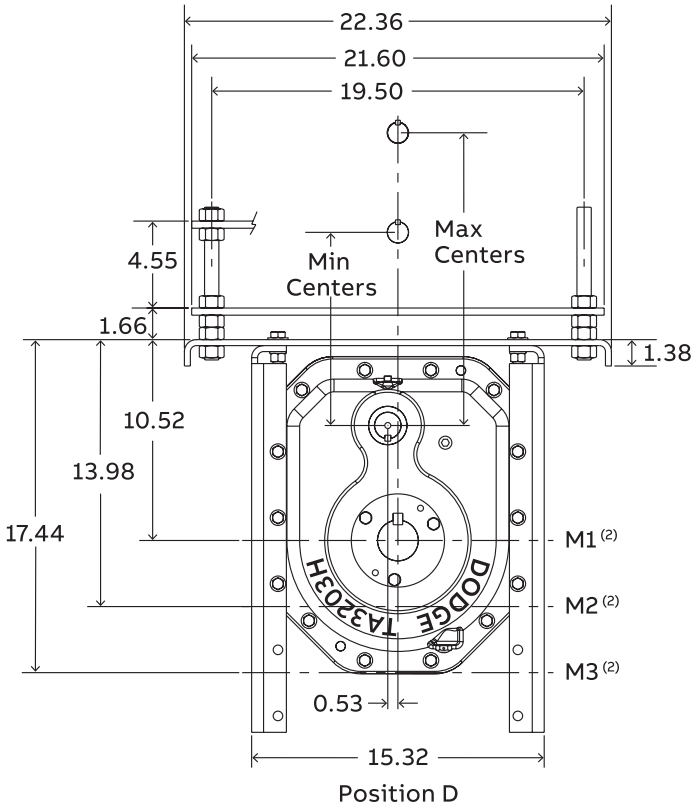
TA3203H

Motor mount dimensions – position B and D



Position B





Position D

All dimensions are in inches.

TA3203H

Motor mount dimensions – position B and D

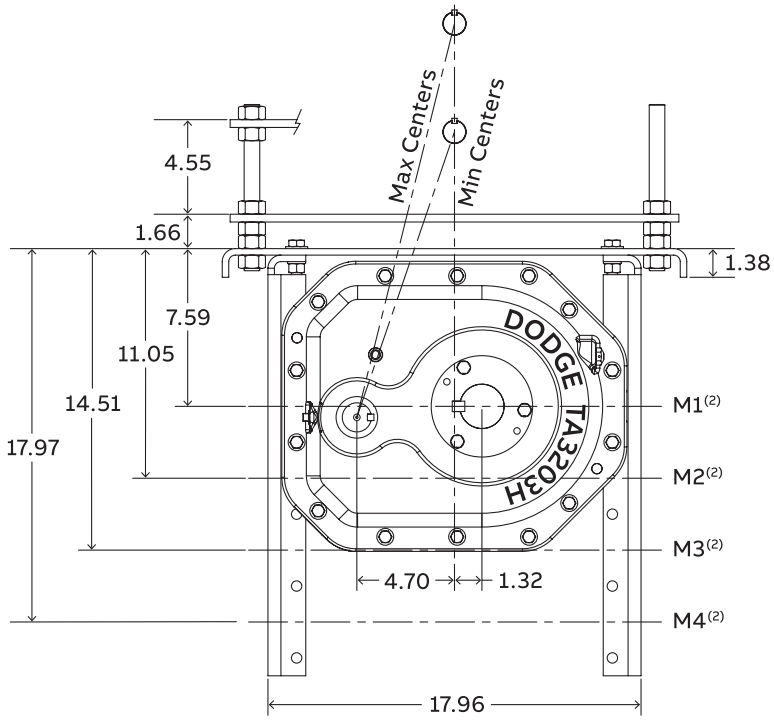
Mounting	Lateral adjustment				Motor mount height (2)	Motor frame					
						143T and 145T			182T and 184T		
						A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max
Position B	0.04	5.34	2.06	7.36	M1	1.22	19.8	23.9	1.37	20.8	24.9
					M2		23.3	27.3		24.3	28.3
					M3		26.7	30.8		27.7	31.8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

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

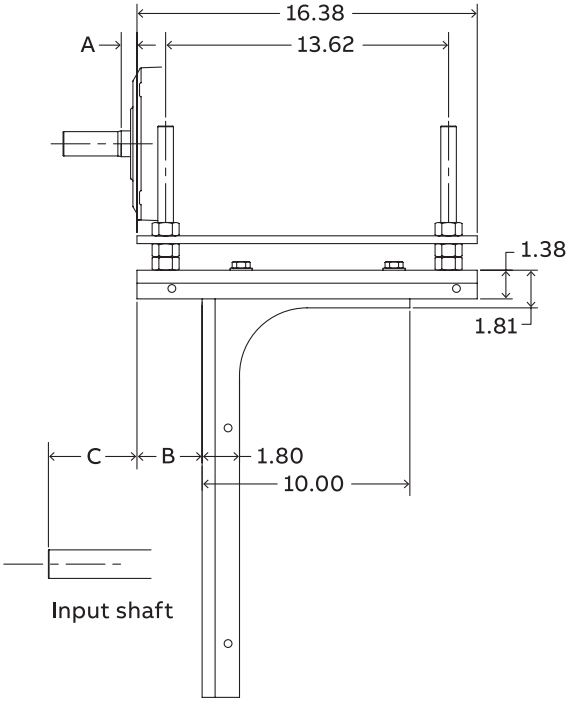
Notes:
(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.
(2) M1, M2, M3, M4 go through output shaft centerline
Minimum centers contain 0.5 inches to allow for belt assembly

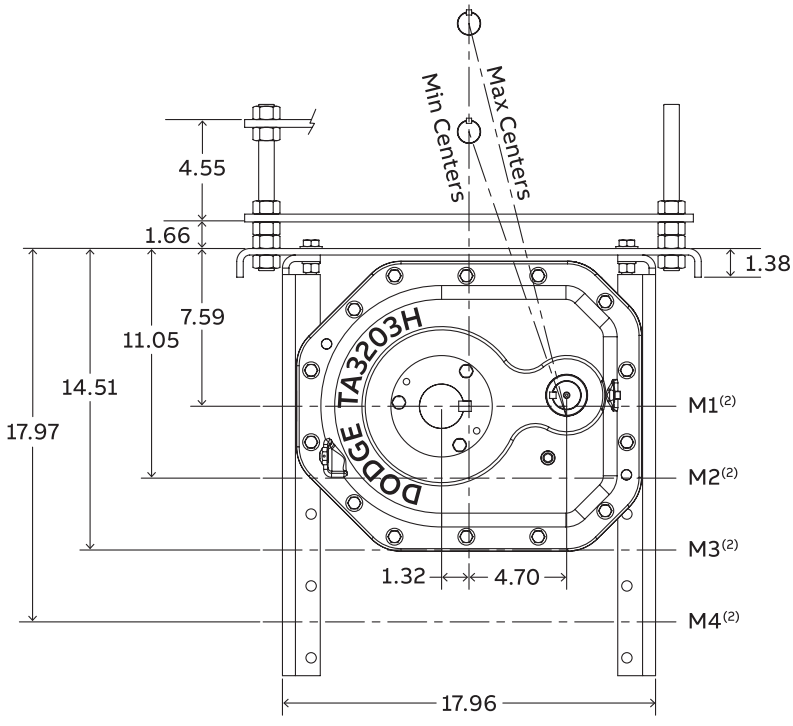
TA3203H

Motor mount dimensions – position A and C



Position A





Position C

All dimensions are in inches.

TA3203H

Motor mount dimensions – position A and C

Mounting	Lateral adjustment				Motor mount height [2]	Motor frame					
						143T and 145T			182T and 184T		
						A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max
Position A	0.04	5.34	3.07	8.37	M1	1.22	14.6	18.4	1.37	15.5	19.4
					M2		17.9	21.8		18.9	22.8
					M3		21.2	25.2		22.2	26.2
					M4		24.6	28.6		25.6	29.6
Position C	0.04	5.34	3.07	8.37	M1	1.22	13.6	17.4	1.37	14.5	18.4
					M2		16.9	20.8		17.8	21.7
					M3		20.2	24.2		21.2	25.1
					M4		23.6	27.6		24.6	28.5

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

Table A – Screw conveyor motor mount minimum "M" mounting positions [4]

Nominal screw Dia	Trough height Dim	Minimum mounting position							
		TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H
6	7.00	M2	M3	M2	M2	M2	M1	M1	M1
9	9.00	M3	M4	M3	M3	M2	M2	M2	M1
12	10.00	M4	M4	M3	M3	M2	M2	M2	M1
14	11.00	M4	M4	M4	M3	M3	M2	M2	M2
16	11.50	M4	M4	M4	M4	M3	M2	M2	M2
18	12.13	—	—	M4	M4	M3	M3	M2	M2
20	13.50	—	—	M4	M4	M3	M3	M3	M2
24	16.50	—	—	—	—	M4	M3	M3	M3

Notes:

(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

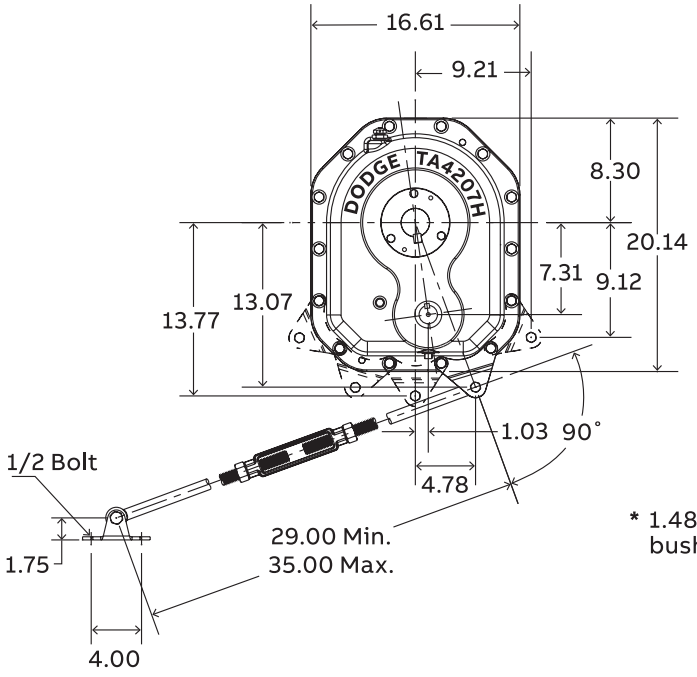
(3) See Table A below for minimum "M" mounting position required for specific screw diameter and reducer size

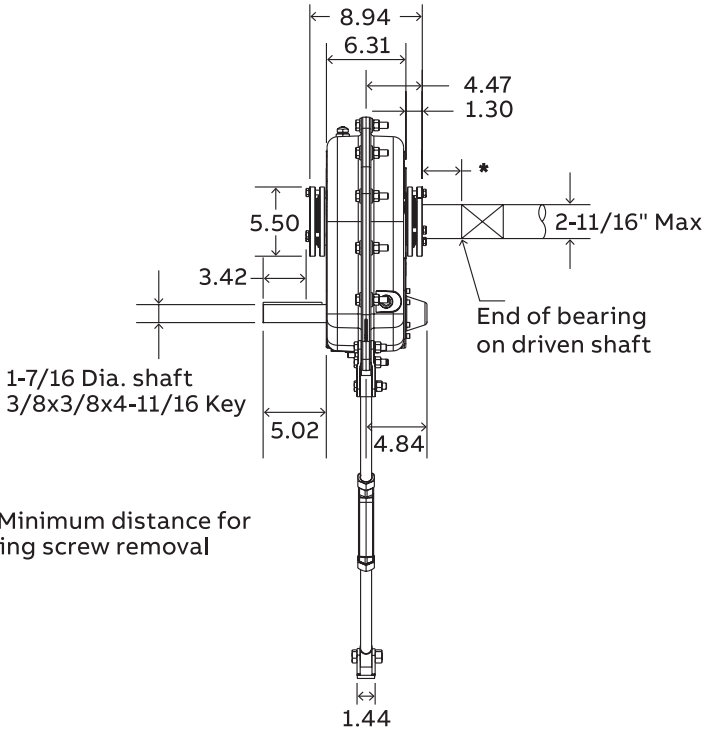
(4) For U or flared trough ends per CEMA 300—014

Minimum centers contain 0.5 inches to allow for belt assembly

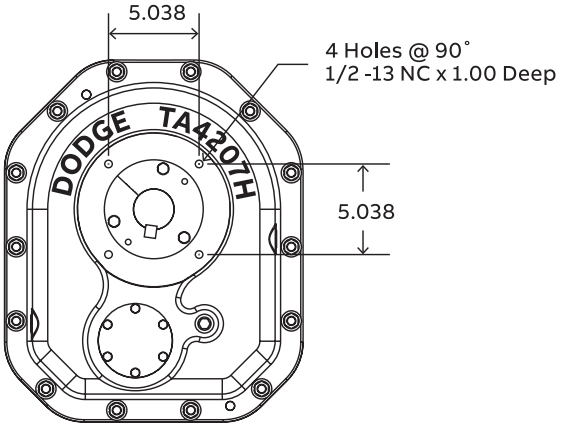
TA4207H

Taper-bushed reducers – single and double-reductions

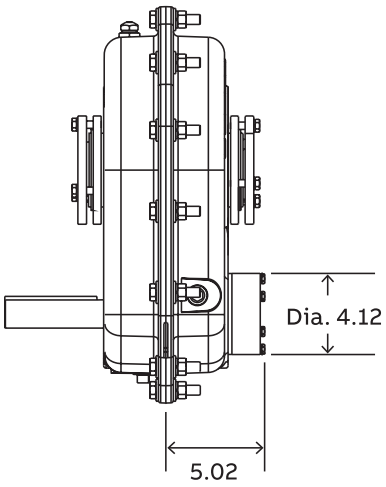




* 1.48 Minimum distance for bushing screw removal



Flange mounting dimensions



Reducer with backstop

All dimensions are in inches.

TA4207H

Taper-bushed reducers – single and double-reductions

TA4207H taper-bushed reducers [1]

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TA4207H05	904004	207S05	5.00	178.5
TA4207H09	904003	207D09	9.23	187.1
TA4207H15	904002	207D15	15.00	186.7
TA4207H25	904001	207D25	25.13	186.0
TA4207H40	904000	207D40	39.11	185.4

TA4207H accessories

Description	Part number	Weight (lb)
TA4207RA Tie rod assembly +	904109	10.6
TA4207BS Backstop assembly (5, 9, 15, 25:1) [2]	904102	5.2
TA4207BS 40:1 Backstop assembly [2]	904103	5.2
TA4207CF Cooling Assembly ●	904106	2.0
TA4207MM Motor mount assembly (143—326T) [3]	904090	114.3
TA4207BG Belt guard - Pos. B (143—326T)	904096	79.6
TA4207BG Belt guard - Pos. C (143—326T) [4]	904097	82.7
TA4207BG Belt guard - Pos. D (143—326T)	904099	80.6
TA4—TA9 Hydra-Lock Desiccant breather Kit HL1	964364	2.0
TA0107—TA9415 OPTIFY Breather OB1	750020	2.0
XT Enclosed breather system, TA0—9	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TA4207 Reliability kit	TA4RELKIT	10.0
TA4207H V-Ring kit	904249	0.3
TA4207H Lube kit	LUBEKITTA4207	16.2
TA4—TA12 Vertical breather kit	904112	2.0

TA4207H tapered bushing kits [5] [6]

Bushing size Standard shaft bushing kit	Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA4207TB x 2-11/16	904020	9.4	5/8 x 5/16 x 8.93
TA4207TB x 2-7/16 ▲	904022	10.8	5/8 x 5/16 x 8.93
TA4207TB x 2-3/8	904023	11.3	5/8 x 5/16 x 8.93
TA4207TB x 2-3/16	904025	11.8	1/2 x 1/4 x 8.93
TA4207TB x 1-15/16	904028	13.0	1/2 x 1/4 x 8.93

For smaller bushing sizes and bushings smaller than AGMA bore standards, contact Dodge Application Engineering at +1 864 284 5700 for shaft strength evaluation.

Bushing size Short shaft bushing kit [8]	Part number	Weight (lb)	Shaft keyseat required [9] [10]
TA4207TBS x 2-7/16	904032	11.3	5/8 x 5/16 x 5.65
TA4207TBS x 2-3/8	904033	11.8	5/8 x 5/16 x 5.65
TA4207TBS x 2-1/4	904034	12.4	1/2 x 1/4 x 5.65
TA4207TBS x 2-3/16	904035	10.8	1/2 x 1/4 x 5.65
TA4207TBS x 2-1/8	904036	13.3	1/2 x 1/4 x 5.65
TA4207TBS x 2	904037	13.9	1/2 x 1/4 x 5.65
TA4207TBS x 1-15/16	904038	14.3	1/2 x 1/4 x 5.65

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
TA4207H	904142	1.2	020548	3

TA II is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TA II reducer.

Shaft guard and kits

Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TA4207H	020572	4	TAShaftGuard-04	7

Kits include adapter and extension for that size reducer.

▲ AGMA maximum bore size

● See page G1-129 for cooling fan dimensions, when a cooling fan is used with a closed bushing cover, the bushing cover may require modifications for clearance

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

(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.

(2) See page G1-112 for input shaft speed necessary for backstop sprag lift-off

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

(4) Use position C belt guard for TA II reducers in screw conveyor drive applications

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

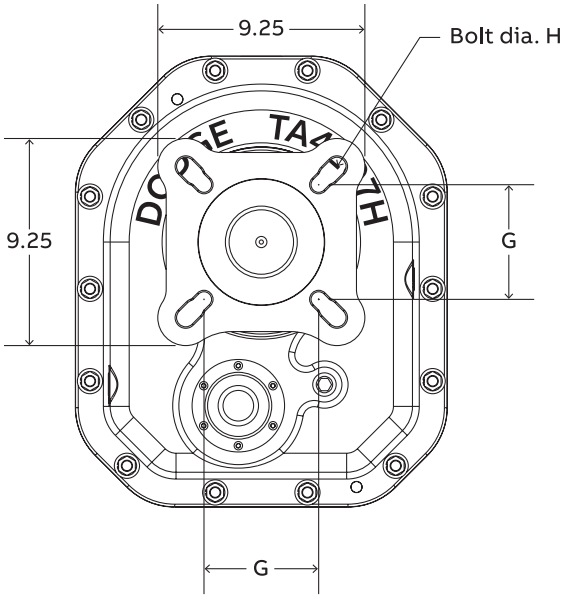
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

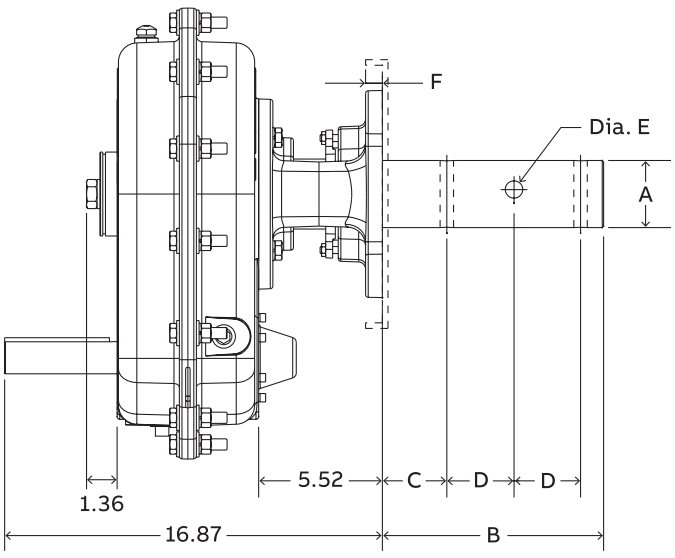
(10) Always check the driven shaft and key for strength

Closed bushing covers may not be compatible with belt guards or large sheave installations
Split bushing covers are designed for use on “driven machine” side of reducer with shaft through

TA4207H

Screw conveyor drive – single and double-reductions





All dimensions are in inches.

TA4207H

Screw conveyor drive – single and double-reductions

TA4207H screw conveyor drive dimensions

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

TA4207H accessories for screw conveyor drives [1] [4] [5]

Description	Part number	Weight (lb)
TA4207SCA Adapter and hardware kit [2]	904070	33.6
TA4207SCP Adjustable packing kit [3]	904071	2.1
TA4207SCS x 2 Driveshaft	904073	29.8
TA4207SCS x 2-7/16 Driveshaft	904074	34.5
TA4207SCS x 3 Driveshaft	904075	40.9
TA4207SCS x 3-7/16 Driveshaft	904076	54.7
TA4207SCS x 2 Stainless-steel driveshaft	904081	29.8
TA4207SCS x 2-7/16 Stainless-steel driveshaft	904082	34.5
TA4207SCS x 3 Stainless-steel driveshaft	904083	40.9
TA4207SCS x 3-7/16 Stainless-steel driveshaft	904084	54.7
TA4207MM Motor mount assembly (143—326T)	904090	114.3
TA4207BG Belt guard - Pos. C (143—326T) [1]	904097	82.7
TA4—TA9 Hydra-Lock desiccant breather kit HL1	964364	2.0
XT Enclosed breather system, TA0-9	240050	2.0
OPTIFY Performance Sensor	820000	0.5

(1) Position C belt guards are the most popular for screw conveyor drive applications

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

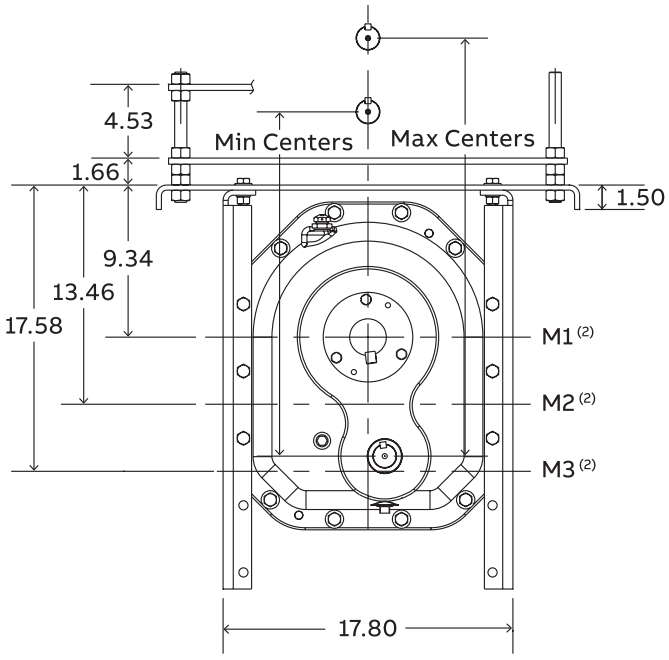
(3) SCP Adjustable packing kit consists of flange, mounting hardware, and braided packing seals

(4) SCS Driveshaft is a shaft only. Hardware is stocked with the adapter and hardware kit.

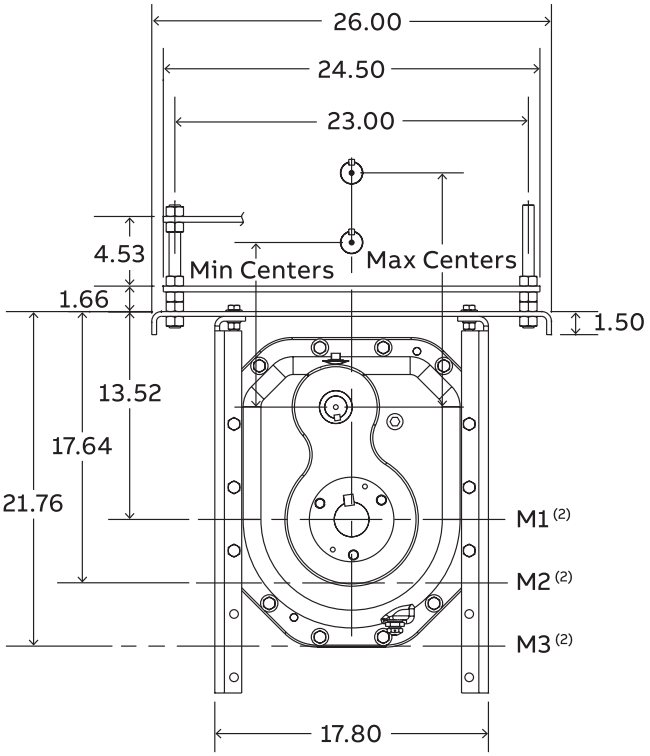
(5) To complete TA II screw conveyor drive, order a TA II reducer, SCA adapter and hardware kit, and SCS driveshaft. The SCP adjustable packing kit is an optional accessory.

TA4207H

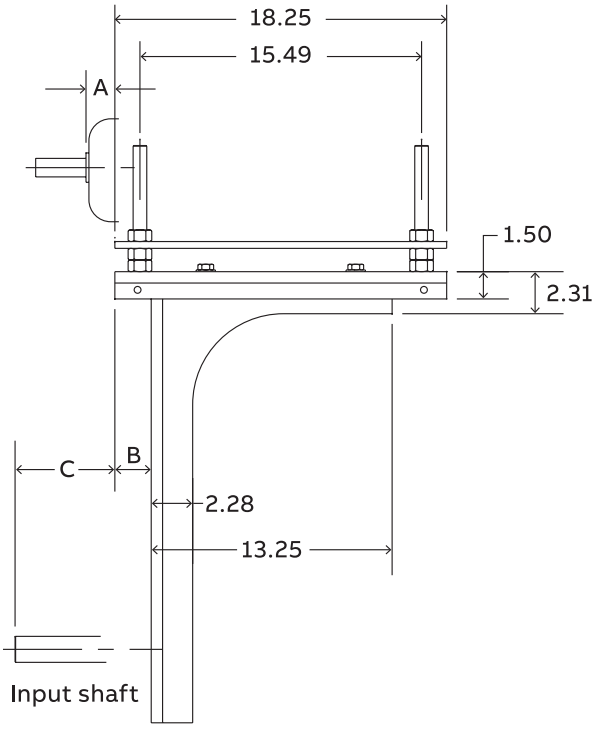
Motor mount dimensions – position B and D



Position B



Position D



All dimensions are in inches.

TA4207H

Motor mount dimensions – position B and D

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

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

Notes:

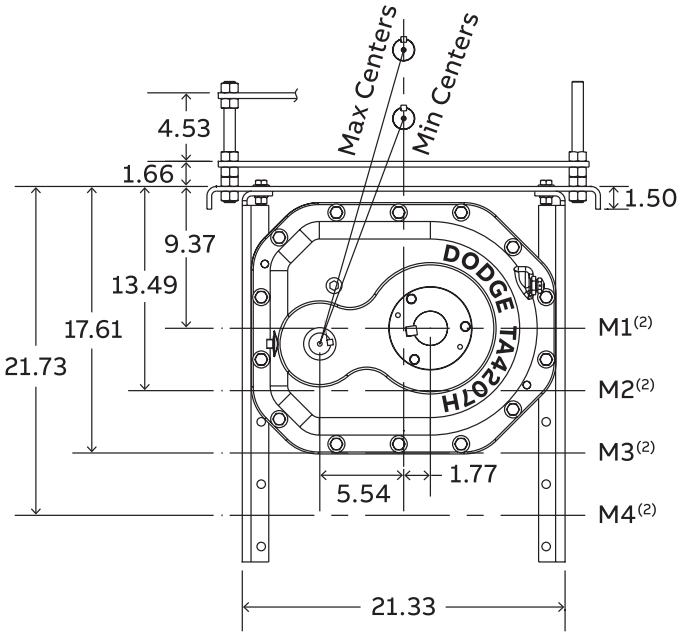
(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

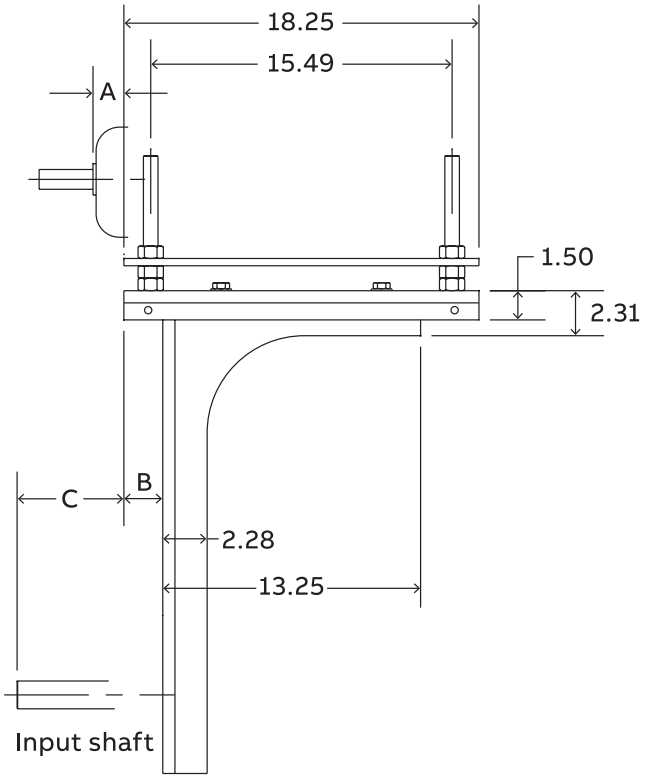
Minimum centers contain 0.5 inches to allow for belt assembly

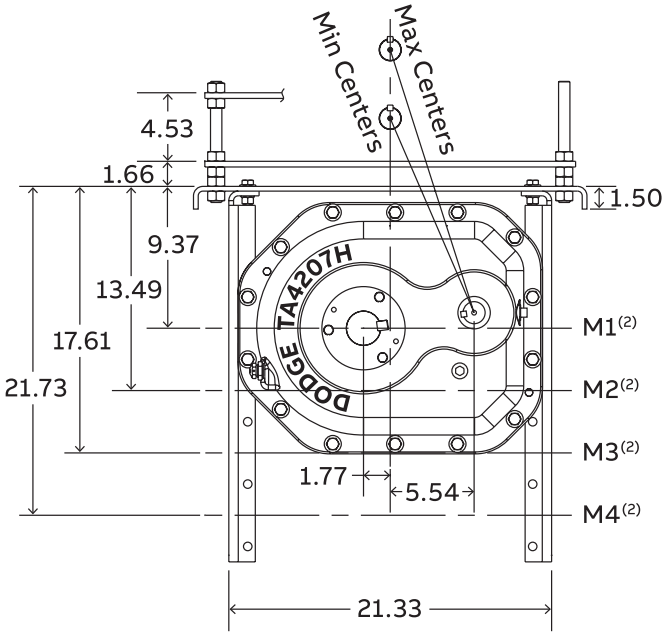
TA4207H

Motor mount dimensions – position A and C



Position A





Position C

All dimensions are in inches.

TA4207H

Motor mount dimensions – position A and C

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

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

Table A – Screw conveyor motor mount minimum "M" mounting positions [4]

Nominal screw Dia	Trough height Dim	Minimum mounting position							
		TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H
6	7.00	M2	M3	M2	M2	M2	M1	M1	M1
9	9.00	M3	M4	M3	M3	M2	M2	M2	M1
12	10.00	M4	M4	M3	M3	M2	M2	M2	M1
14	11.00	M4	M4	M4	M3	M3	M2	M2	M2
16	11.50	M4	M4	M4	M4	M3	M2	M2	M2
18	12.13	—	—	M4	M4	M3	M3	M2	M2
20	13.50	—	—	M4	M4	M3	M3	M3	M2
24	16.50	—	—	—	—	M4	M3	M3	M3

Notes:

(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

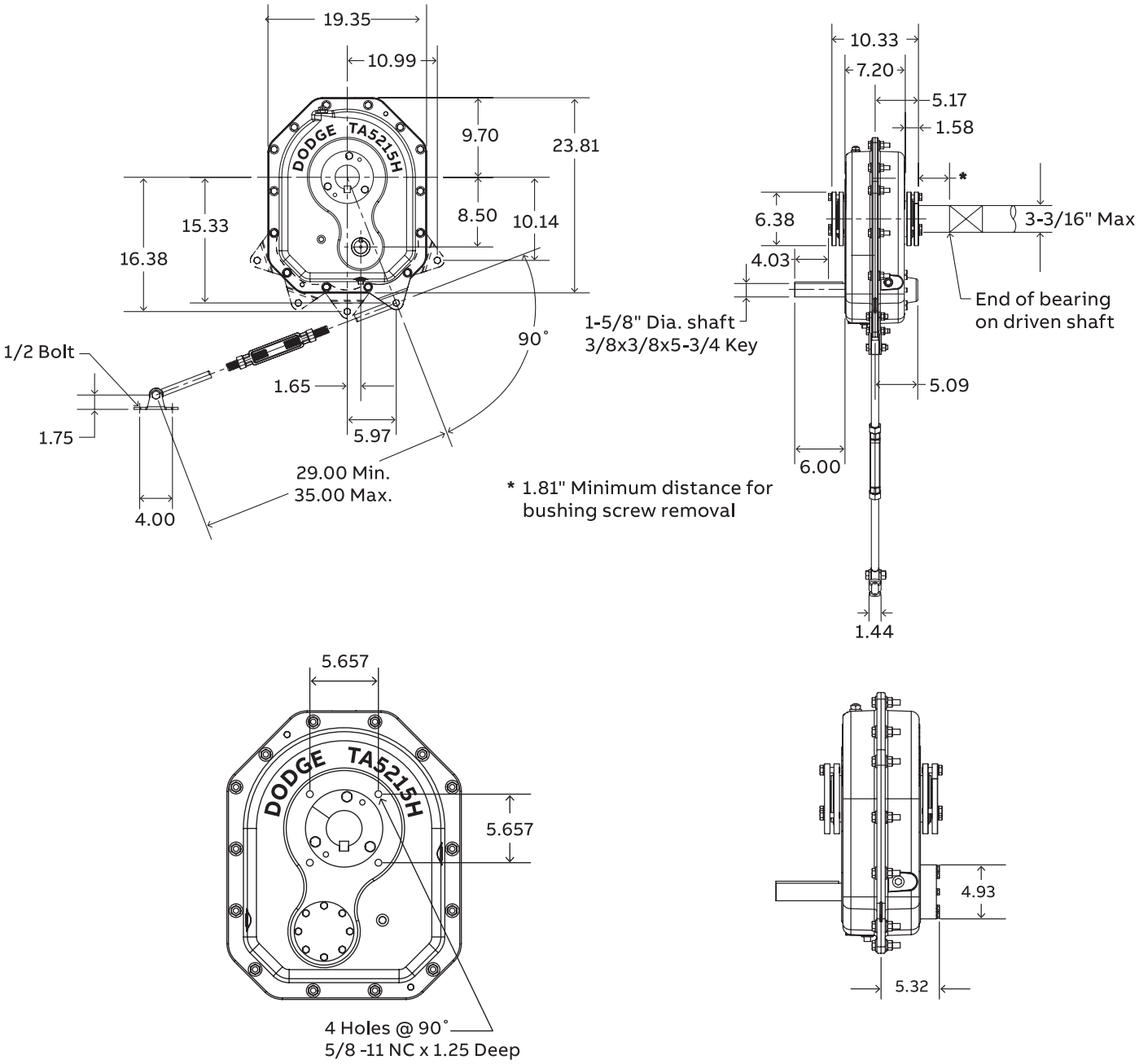
(3) See Table A below for minimum "M" mounting position required for specific screw diameter and reducer size

(4) For U or flared trough ends per CEMA 300—014

Minimum centers contain 0.5 inches to allow for belt assembly

TA5215H

Taper-bushed reducers – single and double-reductions



Flange mounting dimensions

Reducer with backstop

All dimensions are in inches.

TA5215H

Taper-bushed reducers – single and double-reductions

TA5215H taper-bushed reducers [1]

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TA5215H05	905004	215S05	5.11	259.8
TA5215H09	905003	215D09	9.18	274.4
TA5215H15	905002	215D15	14.92	273.9
TA5215H25	905001	215D25	25.00	272.9
TA5215H40	905000	215D40	38.91	272.1

TA5215H accessories

Description	Part number	Weight (lb)
TA5215RA Tie rod assembly +	905109	11.0
TA5215BS Backstop assembly (5, 9, 15, 25:1) [2]	905102	8.3
TA521BS 40:1 Backstop assembly [2]	905103	8.3
TA5215 Cooling fan assembly ●	905106	3.0
TA5215MM Motor mount assembly (182—365T) [3]	905090	124.8
TA5215BG Belt guard - Pos. B (182—365T)	905096	101.5
TA5215BG Belt guard - Pos. C (182—365T) [4]	905097	105.5
TA5215BG Belt guard - Pos. D (182—365T)	905099	105.0
TA4—TA9 Hydra-Lock Desiccant breather Kit HL1	964364	2.0
TA0107—TA9415 OPTIFY Breather OB1	750020	2.0
XT Enclosed breather system, TA0—9	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TA5215 Reliability kit	TA5RELKIT	10.0
TA5215H V-Ring kit	905249	0.3
TA5215H Lube kit	LUBEKITTA5215	28.9
TA4—TA12 Vertical breather kit	904112	2.0

TA5215H tapered bushing kits [5] [6]

Bushing size			
Standard shaft bushing kit	Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA5215TB x 3-3/16	905020	13.7	3/4 x 3/8 x 10.34
TA5215TB x 3	905021	15.1	3/4 x 3/8 x 10.34
TA5215TB x 2-15/16 ▲	905022	15.6	3/4 x 3/8 x 10.34
TA5215TB x 2-11/16	905024	16.7	5/8 x 5/16 x 10.34
TA5215TB x 2-7/16	905026	18.1	5/8 x 5/16 x 10.34

For smaller bushing sizes and bushings smaller than AGMA bore standards, contact Dodge Application Engineering at +1 864 284 5700 for shaft strength evaluation.

Bushing size			
Short shaft bushing kit [8]	Part number	Weight (lb)	Shaft keyseat required [9] [10]
TA5215TBS x 2-15/16	905033	16.2	3/4 x 3/8 x 6.36
TA5215TBS x 2-7/16	905037	20.1	5/8 x 5/16 x 6.36

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
TA5215H	905142	1.5	020549	3

TA II is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TA II reducer.

Shaft guard and kits

Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TA5215H	020573	4	TAShaftGuard-05	7

Kits include adapter and extension for that size reducer.

▲ AGMA maximum bore size

● See page G1-129 for cooling fan dimensions, when a cooling fan is used with a closed bushing cover, the bushing cover may require modifications for clearance

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

(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.

(2) See page G1-112 for input shaft speed necessary for backstop sprag lift-off

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

(4) Use position C belt guard for TA II reducers in screw conveyor drive applications

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

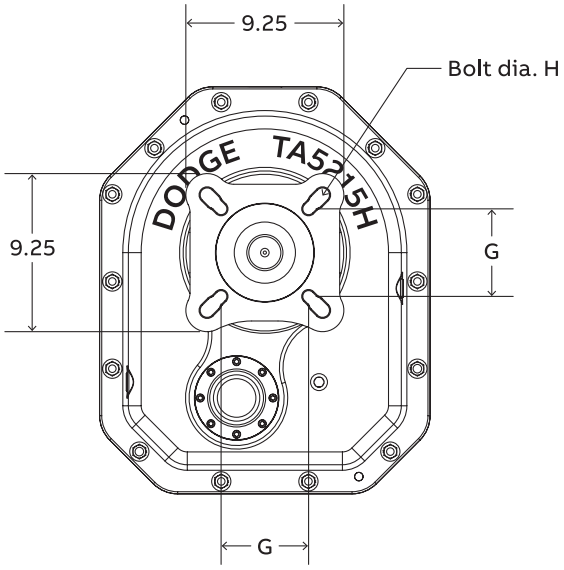
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

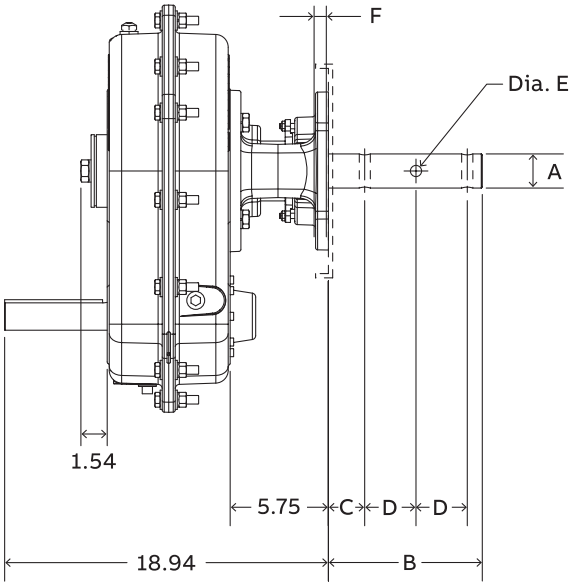
(10) Always check the driven shaft and key for strength

Closed bushing covers may not be compatible with belt guards or large sheave installations
Split bushing covers are designed for use on “driven machine” side of reducer with shaft through

TA5215H

Screw conveyor drive – single and double-reductions





All dimensions are in inches.

TA5215H

Screw conveyor drive – single and double-reductions

TA5215H screw conveyor drive dimensions

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

TA5215H accessories for screw conveyor drives (1) (4) (5)

Description	Part number	Weight (lb)
TA5215SCA Adapter and Hardware Kit (2)	905070	38.4
TA5215SCP Adjustable Packing Kit (3)	905071	2.1
TA5215SCS x 2 Driveshaft	905073	39.0
TA5215SCS x 2-7/16 Driveshaft	905074	43.6
TA5215SCS x 3 Driveshaft	905075	50.0
TA5215SCS x 3-7/16 Driveshaft	905076	63.9
TA5215SCS x 2 Stainless-steel driveshaft	905081	39.0
TA5215SCS x 2-7/16 Stainless-steel driveshaft	905082	43.6
TA5215SCS x 3 Stainless-steel driveshaft	905083	50.0
TA5215SCS x 3 -7/16 Stainless-steel driveshaft	905084	63.9
TA5215MM Motor mount assembly (1852-365T)	905090	124.8
TA5215BG Belt guard - Pos. C (182—365T) (1)	905097	105.5
TA4—TA9 Hydra-Lock desiccant breather kit HL1	964364	2.0
XT Enclosed breather system, TA0-9	240050	2.0
OPTIFY Performance Sensor	820000	0.5

(1) Position C belt guards are the most popular for screw conveyor drive applications

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

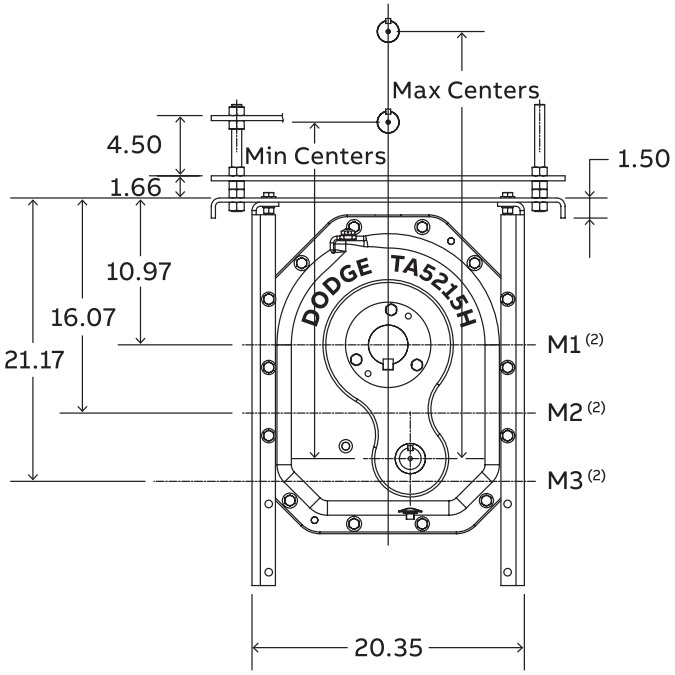
(3) SCP Adjustable packing kit consists of flange, mounting hardware, and braided packing seals

(4) SCS Driveshaft is a shaft only. Hardware is stocked with the adapter and hardware kit.

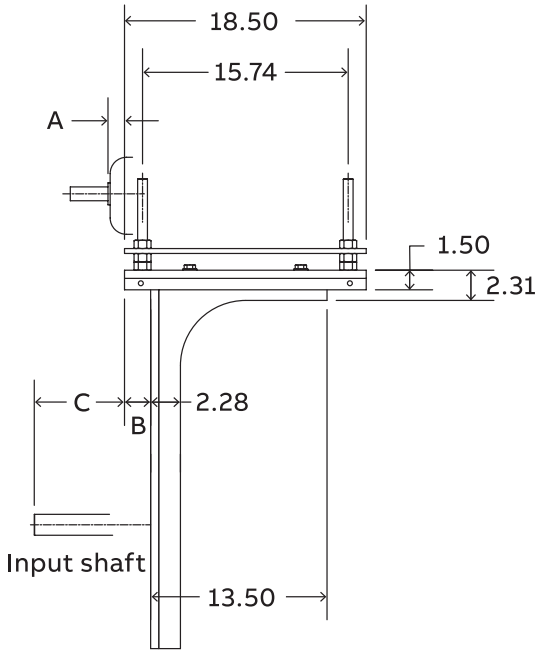
(5) To complete TA II screw conveyor drive, order a TA II reducer, SCA adapter and hardware kit, and SCS driveshaft. The SCP adjustable packing kit is an optional accessory.

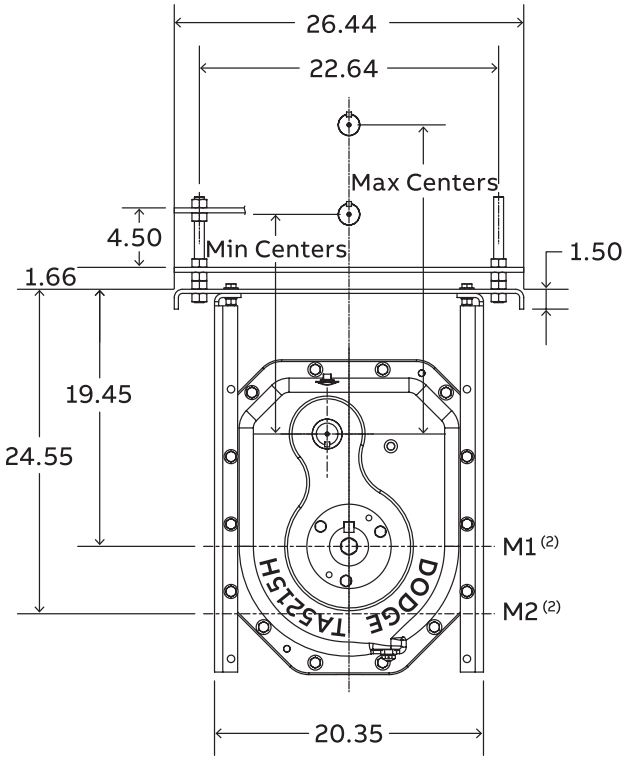
TA5215H

Motor mount dimensions – position B and D



Position B





Position D

All dimensions are in inches.

TA5215H

Motor mount dimensions – position B and D

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						143T and 145T			182T and 184T			213T and 215T		
						A	Centers		A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max		Min	Max
Position B	-0.21	4.21	4.70	9.12	M1	1.37	26.2	30.3	1.55	26.9	31.1	1.56	27.9	32.1
					M2		31.2	35.3		31.9	36.1		32.9	37.1
					M3		36.2	40.3		36.9	41.1		37.9	42.1
Position D	-0.21	4.21	4.70	9.12	M1	1.37	17.7	21.8	1.55	18.4	22.6	1.56	19.4	23.6
					M2		22.7	26.8		23.4	27.6		24.4	28.6

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						254T and 256T			284T and 286T			324T and 326T		
						A	Centers		A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max		Min	Max
Position B	-0.21	4.21	4.70	9.12	M1	1.16	28.7	32.8	0.38	29.7	33.8	1.01	30.7	34.8
					M2		33.7	37.8		34.7	38.8		35.7	39.8
					M3		38.7	42.8		39.7	43.8		40.7	44.8
Position D	-0.21	4.21	4.70	9.12	M1	1.16	20.2	24.3	0.38	21.2	25.3	1.01	22.2	26.3
					M2		25.2	29.3		26.2	30.3		27.2	31.3

Notes:

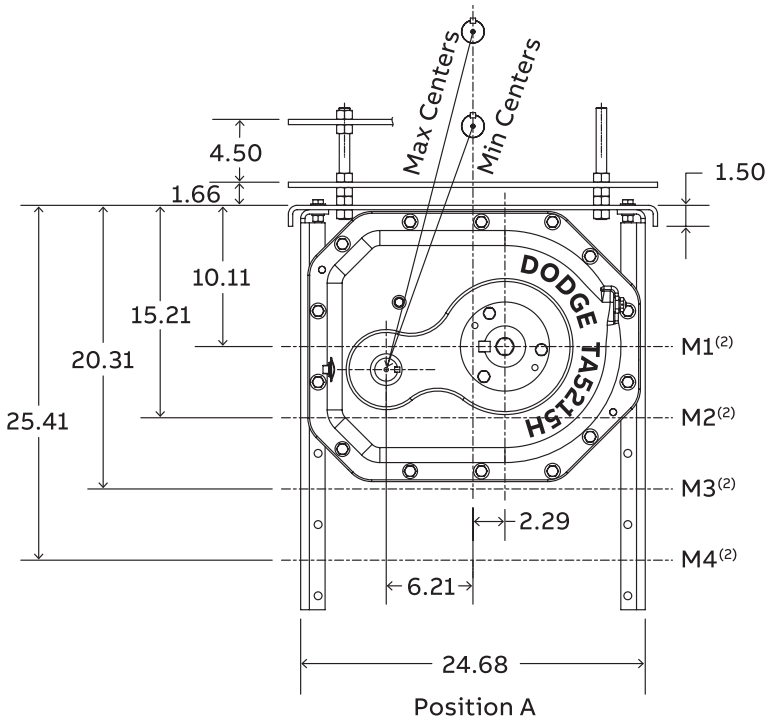
(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

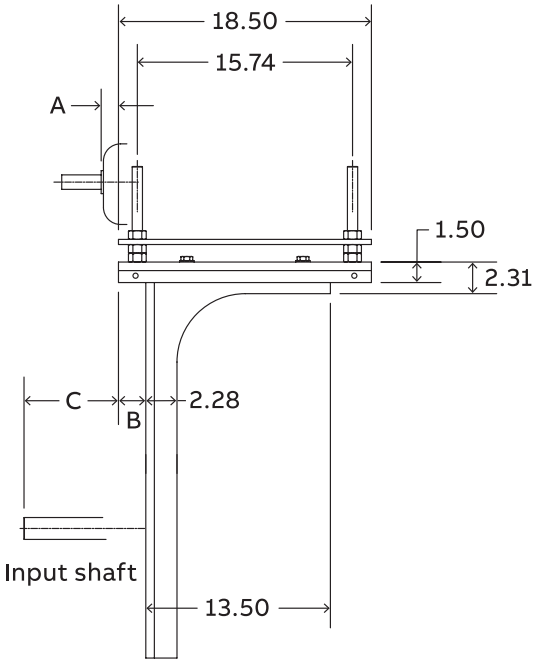
Minimum centers contain 0.5 inches to allow for belt assembly

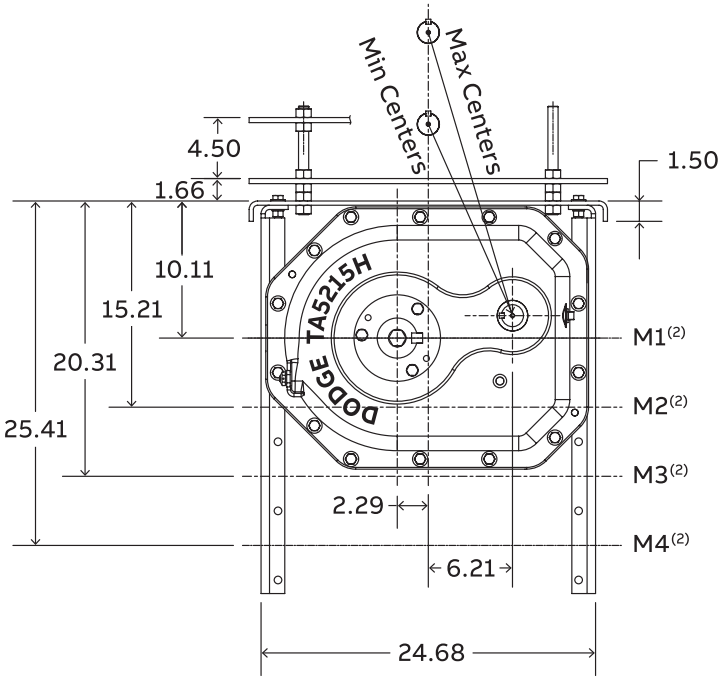
TA5215H

Motor mount dimensions – position A and C



Position A





Position C

All dimensions are in inches.

TA5215H

Motor mount dimensions – position A and C

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

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

Table A – Screw conveyor motor mount minimum "M" mounting positions (4)

Nominal screw Dia	Trough height Dim	Minimum mounting position							
		TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H
6	7.00	M2	M3	M2	M2	M2	M1	M1	M1
9	9.00	M3	M4	M3	M3	M2	M2	M2	M1
12	10.00	M4	M4	M3	M3	M2	M2	M2	M1
14	11.00	M4	M4	M4	M3	M3	M2	M2	M2
16	11.50	M4	M4	M4	M4	M3	M2	M2	M2
18	12.13	—	—	M4	M4	M3	M3	M2	M2
20	13.50	—	—	M4	M4	M3	M3	M3	M2
24	16.50	—	—	—	—	M4	M3	M3	M3

Notes:

(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

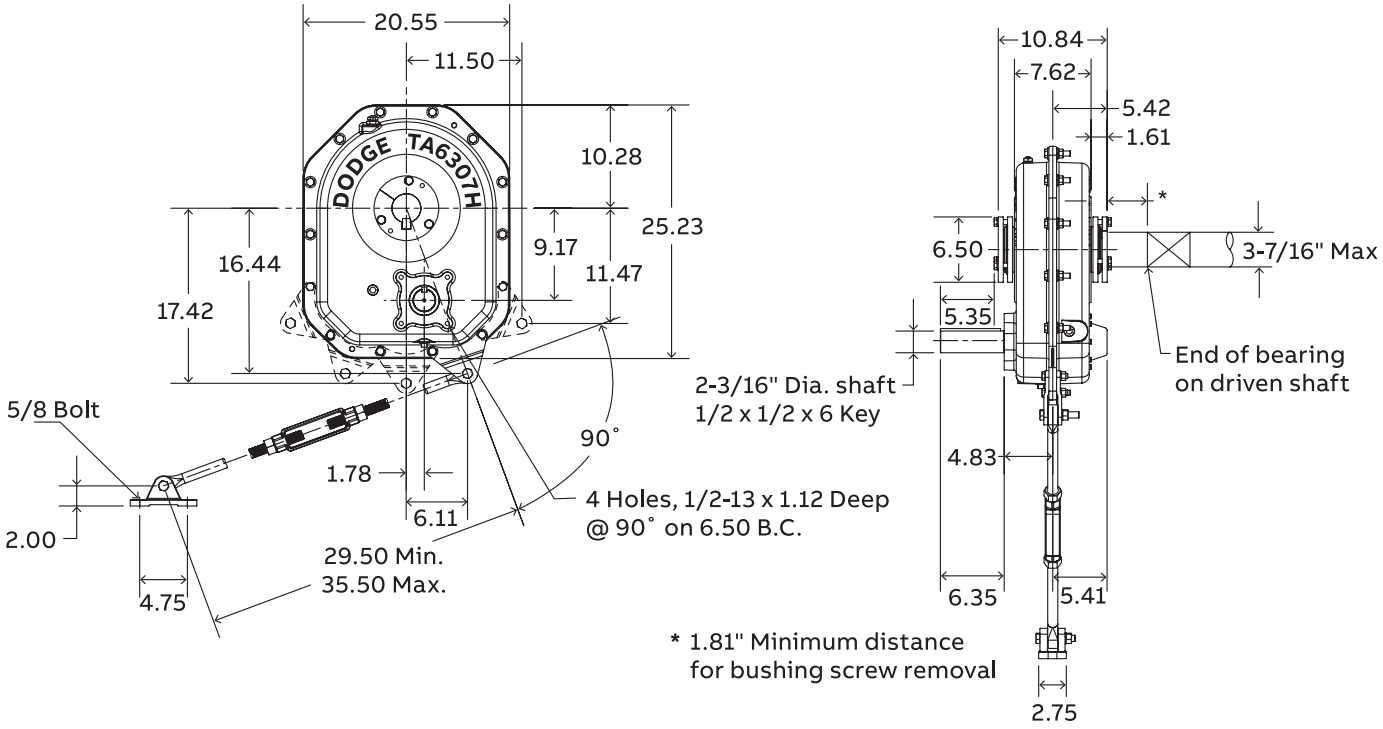
(3) See Table A below for minimum "M" mounting position required for specific screw diameter and reducer size

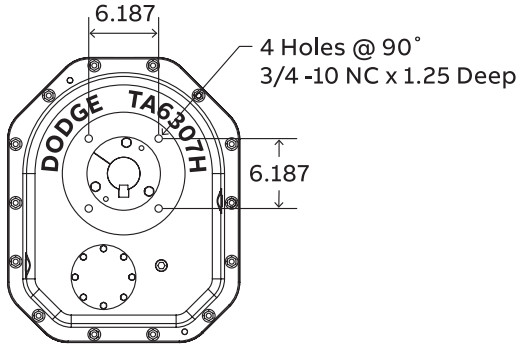
(4) For U or flared trough ends per CEMA 300—014

Minimum centers contain 0.5 inches to allow for belt assembly

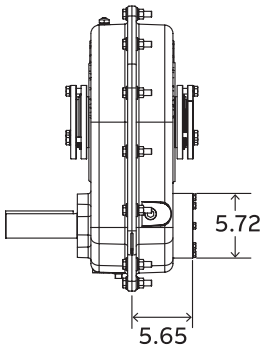
TA6307H

Taper-bushed reducers – single and double-reductions





Flange mounting dimensions



Reducer with backstop

All dimensions are in inches.

TA6307H

Taper-bushed reducers – single and double-reductions

TA6307H taper-bushed reducers [1]

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TA6307H05	906004	307S05	4.94	316.0
TA6307H09	906003	307D09	9.22	334.0
TA6307H15	906002	307D15	15.45	333.0
TA6307H25	906001	307D25	24.87	331.0
TA6307H40	906000	307D40	38.32	330.0

TA6307H accessories

Description	Part number	Weight (lb)
TA6307RA Tie rod assembly +	906109	19.9
TA6307BS Backstop assembly (5, 9, 15:1) [2]	906102	11.1
TA6307BS 25:1 and 40:1 Backstop assembly [2]	906103	11.1
TA6307 Cooling fan assembly ●	906106	10.0
TA6307MM Motor mount assembly (182—405T) [3]	906090	156.7
TA6307BG Belt guard - Pos. B (182—405T)	906096	121.2
TA6307BG Belt guard - Pos. C (182—405T) [4]	906097	129.4
TA6307BG Belt guard - Pos. D (182—405T)	906099	122.2
TA4—TA9 Hydra-Lock desiccant breather kit HL1	964364	2.0
TA0107—TA9415 OPTIFY Breather OB1	750020	2.0
XT Enclosed breather system, TA0—9	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TA6307 Reliability kit	TA6RELKIT	10.0
TA6307H V-Ring kit	906249	0.4
TA6307H Lube kit	LUBEKITTA6307	34.7
TA4—TA12 Vertical breather kit	904112	3.0

TA6307H tapered bushing kits [5] [6]

Bushing size Standard shaft bushing kit	Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA6307TB x 3-7/16 ▲	906020	16.7	7/8 x 7/16 x 10.82
TA6307TB x 3-3/16	906021	17.7	3/4 x 3/8 x 10.82
TA6307TB x 3	906022	19.1	3/4 x 3/8 x 10.82
TA6307TB x 2-15/16	906023	19.6	3/4 x 3/8 x 10.82

For smaller bushing sizes and bushings smaller than AGMA bore standards, contact Dodge Application Engineering at +1 864 284 5700 for shaft strength evaluation.

Bushing size Short shaft bushing kit [8]	Part number	Weight (lb)	Shaft keyseat required [9] [10]
TA6307TBS x 3-7/16	906031	16.5	7/8 x 7/16 x 6.72
TA6307TBS x 2-15/16	906034	21.6	3/4 x 3/8 x 6.72

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
TA6307H	905142	1.5	020550	4

TA II is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TA II reducer.

Shaft guard and kits

Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TA6307H	020574	5	TAShaftGuard-06	9

Kits include adapter and extension for that size reducer.

▲ AGMA maximum bore size

● See page G1-129 for cooling fan dimensions, when a cooling fan is used with a closed bushing cover, the bushing cover may require modifications for clearance

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

(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.

(2) See page G1-112 for input shaft speed necessary for backstop sprag lift-off

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

(4) Use position C belt guard for TA II reducers in screw conveyor drive applications

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

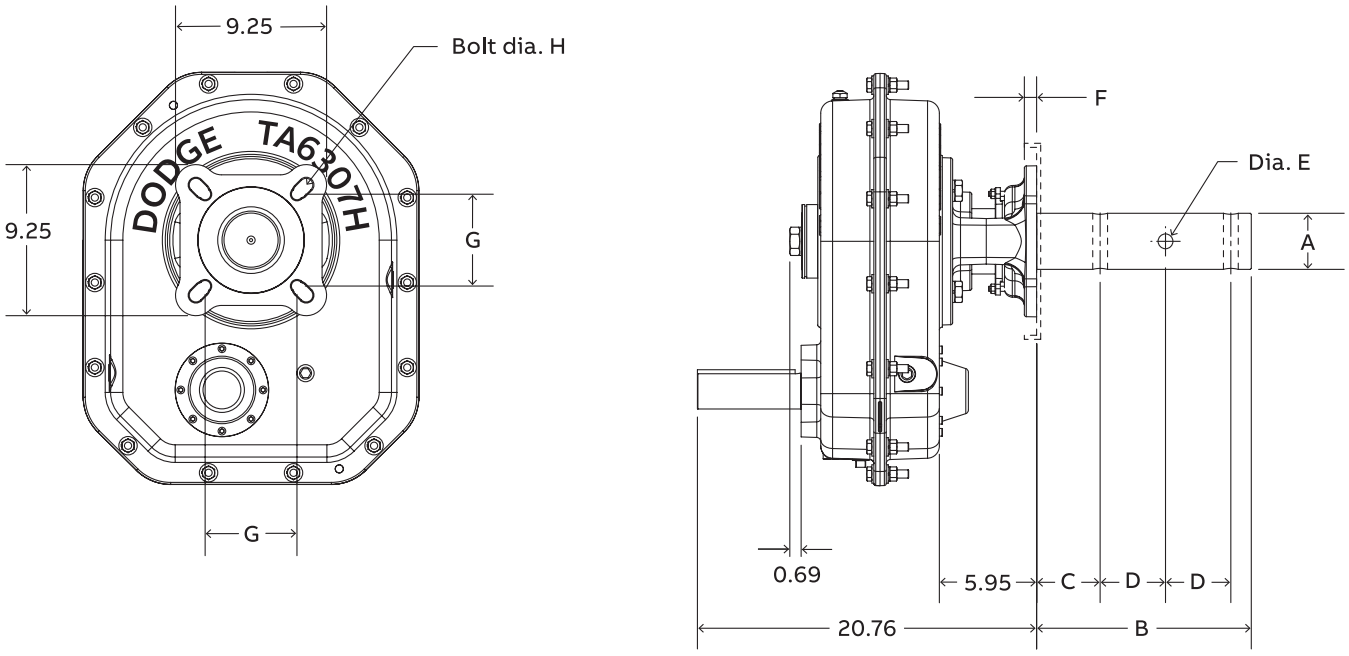
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

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

Closed bushing covers may not be compatible with belt guards or large sheave installations
Split bushing covers are designed for use on “driven machine” side of reducer with shaft through

TA6307H

Screw conveyor drive – single and double-reductions



All dimensions are in inches.

TA6307H

Screw conveyor drive – single and double-reductions

TA6307H screw conveyor drive dimensions

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

TA6307H accessories for screw conveyor drives [1] [4] [5]

Description	Part number	Weight (lb)
TA6307SCA Adapter and hardware kit [2]	906070	40.0
TA6307SCP Adjustable packing kit [3]	906071	2.4
TA6307SCS x 2-7/16 Driveshaft	906074	54.6
TA6307SCS x 3 Driveshaft	906075	61.0
TA6307SCS x 3-7/16 Driveshaft	906076	74.9
TA6307SCS x 2-7/16 Stainless-steel driveshaft	906082	54.6
TA6307SCS x 3 Stainless-steel driveshaft	906083	61.0
TA6307SCS x 3-7/16 Stainless-steel driveshaft	906084	74.9
TA6307MM Motor mount assembly (182—405T)	906090	156.7
TA6307BG Belt guard - Pos. C (182—405T) [1]	902097	129.4
TA4—TA9 Hydra-Lock desiccant breather kit HL1	964364	2.0
XT Enclosed breather system, TA0-9	240050	2.0
OPTIFY Performance Sensor	820000	0.5

(1) Position C belt guards are the most popular for screw conveyor drive applications

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

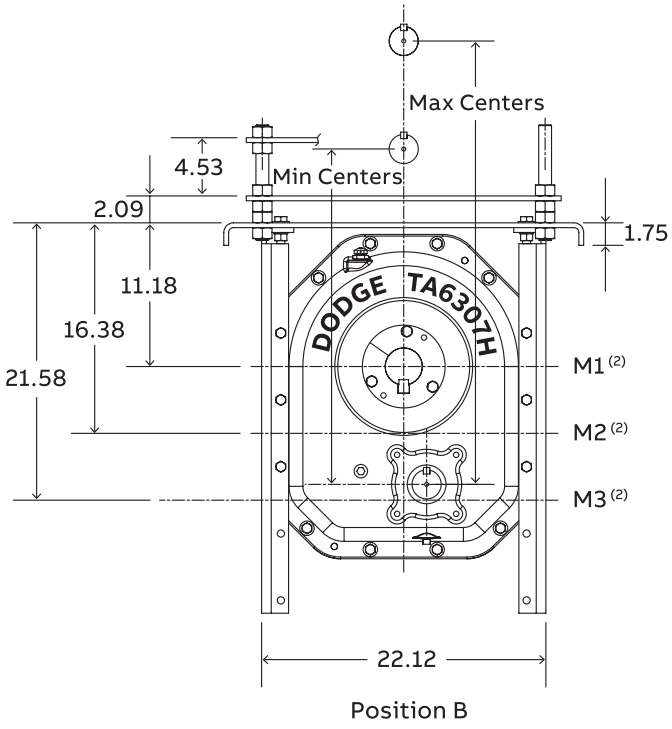
(3) SCP Adjustable packing kit consists of flange, mounting hardware, and braided packing seals

(4) SCS Driveshaft is a shaft only. Hardware is stocked with the adapter and hardware kit.

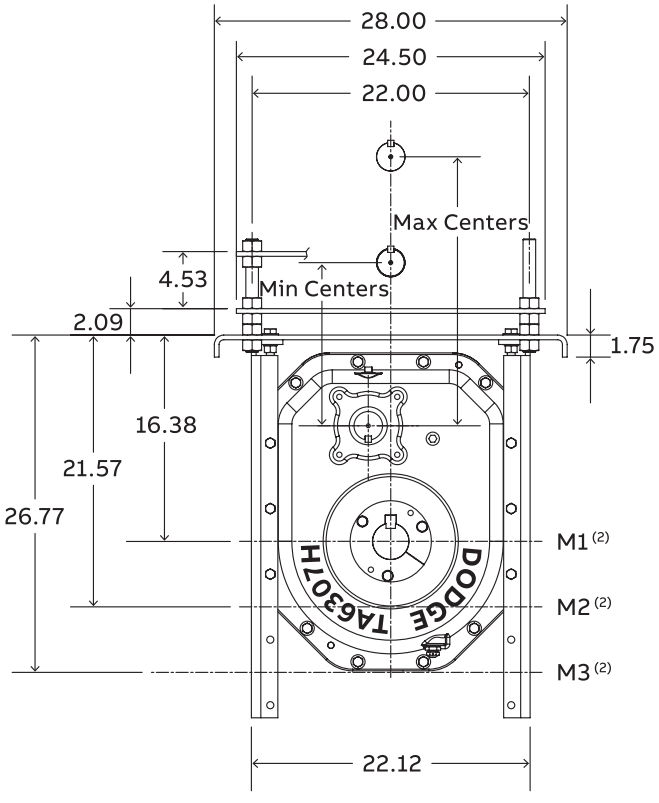
(5) To complete TA II screw conveyor drive, order a TA II reducer, SCA adapter and hardware kit, and SCS driveshaft. The SCP adjustable packing kit is an optional accessory.

TA6307H

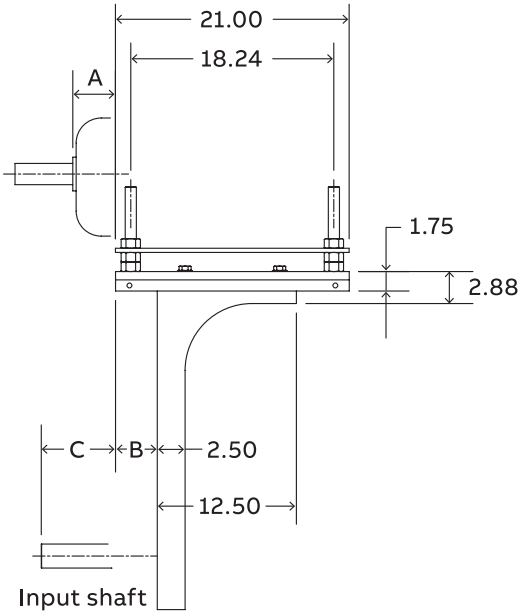
Motor mount dimensions – position B and D



Position B



Position D



All dimensions are in inches.

TA6307H

Motor mount dimensions – position B and D

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

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

Notes:

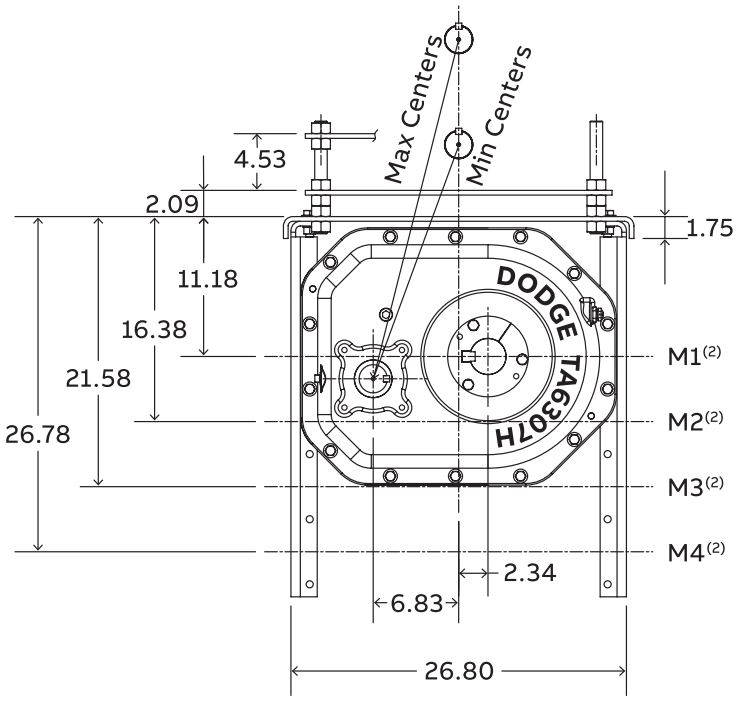
(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

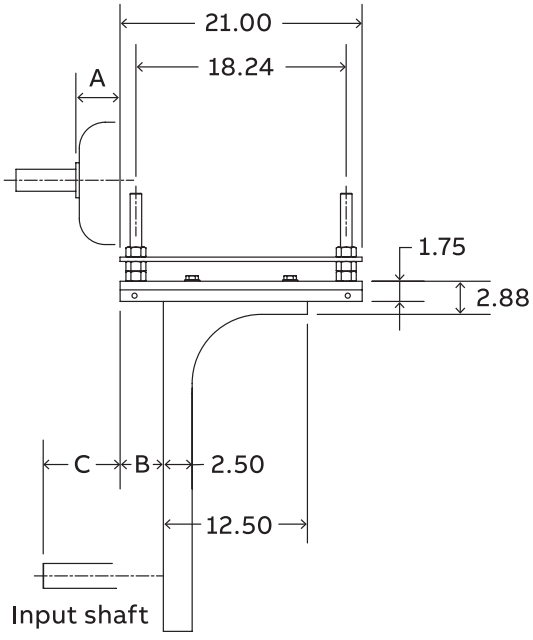
Minimum centers contain 0.5 inches to allow for belt assembly

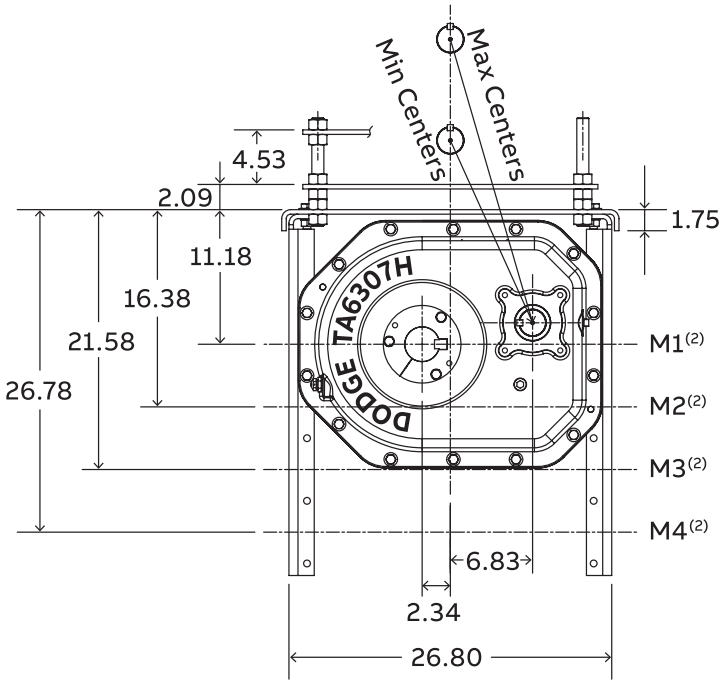
TA6307H

Motor mount dimensions – position A and C



Position A





Position C

All dimensions are in inches.

TA6307H

Motor mount dimensions – position A and C

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

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

Table A – Screw conveyor motor mount minimum "M" mounting positions [4]

Nominal screw Dia	Trough height Dim	Minimum mounting position							
		TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H
6	7.00	M2	M3	M2	M2	M2	M1	M1	M1
9	9.00	M3	M4	M3	M3	M2	M2	M2	M1
12	10.00	M4	M4	M3	M3	M2	M2	M2	M1
14	11.00	M4	M4	M4	M3	M3	M2	M2	M2
16	11.50	M4	M4	M4	M4	M3	M2	M2	M2
18	12.13	—	—	M4	M4	M3	M3	M2	M2
20	13.50	—	—	M4	M4	M3	M3	M3	M2
24	16.50	—	—	—	—	M4	M3	M3	M3

Notes:

(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

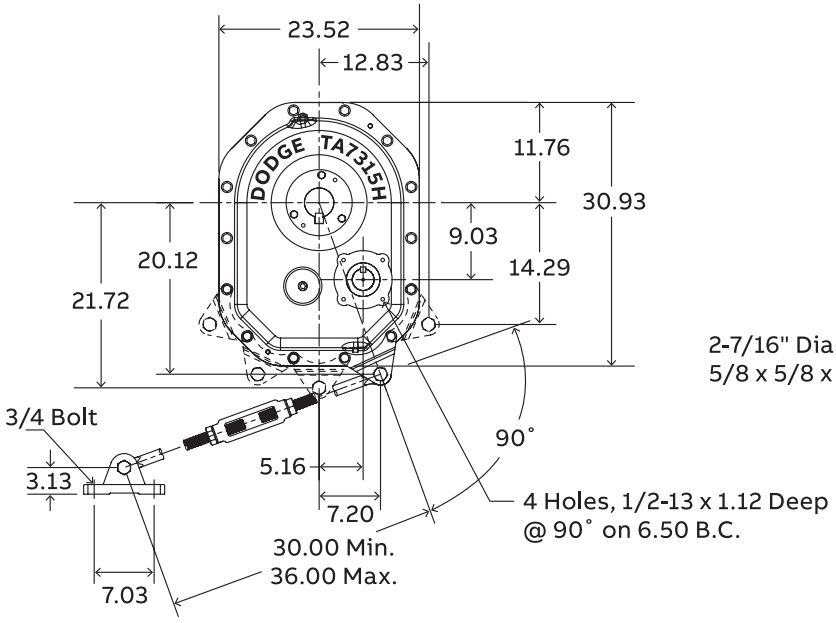
(3) See Table A below for minimum "M" mounting position required for specific screw diameter and reducer size

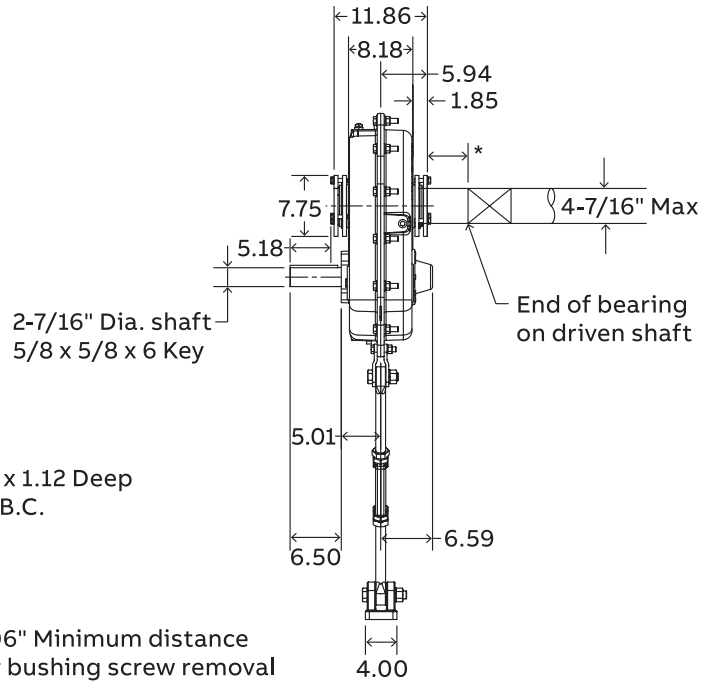
(4) For U or flared trough ends per CEMA 300—014

Minimum centers contain 0.5 inches to allow for belt assembly

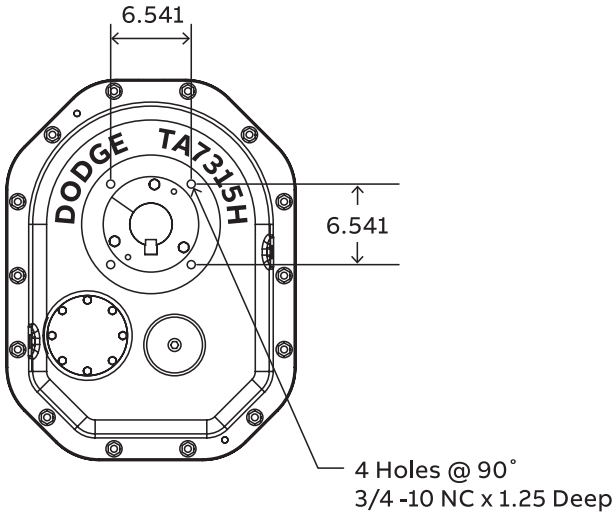
TA7315H

Taper-bushed reducers – single and double-reductions

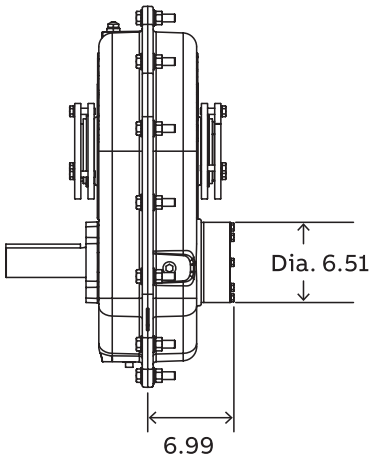




* 2.06" Minimum distance
for bushing screw removal



Flange mounting dimensions



Reducer with backstop

All dimensions are in inches.

TA7315H

Taper-bushed reducers – single and double-reductions

TA7315H taper-bushed reducers [1]

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TA7315H05	907004	315S05	5.19	449.0
TA7315H09	907003	315D09	9.72	494.0
TA7315H15	907002	315D15	14.91	493.0
TA7315H25	907001	315D25	24.84	494.0
TA7315H40	907000	315D40	39.66	492.0

TA7315H accessories

Description	Part number	Weight (lb)
TA7315/8407RA Tie rod assembly +	907109	43.2
TA7315BS Backstop assembly (5, 9, 15, 25:1) [2]	907102	20.0
TA7315/9415BS 40:1 Backstop assembly [2]	907103	21.0
TA7315/8407 Cooling fan assembly ●	907106	10.0
TA7315/8407MM Motor mount assembly (213—405T) [3]	907090	183.3
TA7315/8407BG Belt guard - Pos. B (213—405T)	907096	147.2
TA7315/8407BG Belt guard - Pos. C (213—405T) [4]	907097	152.7
TA7315/8407BG Belt guard - Pos. D (213—405T)	907099	148.2
TA4—TA9 Hydra-Lock desiccant breather kit HL1	964364	2.0
TA0107—TA9415 OPTIFY Breather OB1	750020	2.0
XT Enclosed breather system, TA0—9	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TA7315 Reliability kit	TA7RELKIT	10.0
TA7315/8407H V-Ring kit	907249	0.4
TA7315H Lube kit	LUBEKITTA7315	53.2
TA4—TA12 Vertical breather kit	904112	2.0

TA7315H tapered bushing kits [5] [6]

Bushing size Standard shaft bushing kit	Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA7315TB x 4-7/16	907019	20.5	1 x 1/2 x 11.87
TA7315TB x 4-3/16	907021	23.5	1 x 1/2 x 11.87
TA7315TB x 3-15/16 ▲	907022	26.3	1 x 1/2 x 11.87
TA7315TB x 3-7/16	907023	30.9	7/8 x 7/16 x 11.87

For smaller bushing sizes and bushings smaller than AGMA bore standards, contact Dodge Application Engineering at +1 864 284 5700 for shaft strength evaluation.

Bushing size Short shaft bushing kit [8]	Part number	Weight (lb)	Shaft keyseat required [9] [10]
TA7315TBS x 3-15/16	907031	26.7	1 x 1/2 x 7.62
TA7315TBS x 3-7/16	907032	34.2	7/8 x 7/16 x 7.62

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
TA7315H	907142	1.3	020551	4

TA II is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TA II reducer.

Shaft guard and kits

Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TA7315H	020575	5	TAShaftGuard-07	9

Kits include adapter and extension for that size reducer.

▲ AGMA maximum bore size

● See page G1-129 for cooling fan dimensions, when a cooling fan is used with a closed bushing cover, the bushing cover may require modifications for clearance

\+ Tie rod assembly mounting locations are limited to positions shown in drawing

(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.

(2) See page G1-112 for input shaft speed necessary for backstop sprag lift-off

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

(4) Use position C belt guard for TA II reducers in screw conveyor drive applications

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

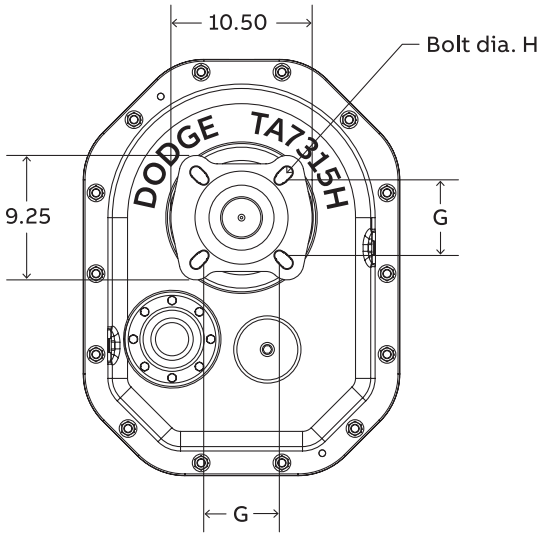
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

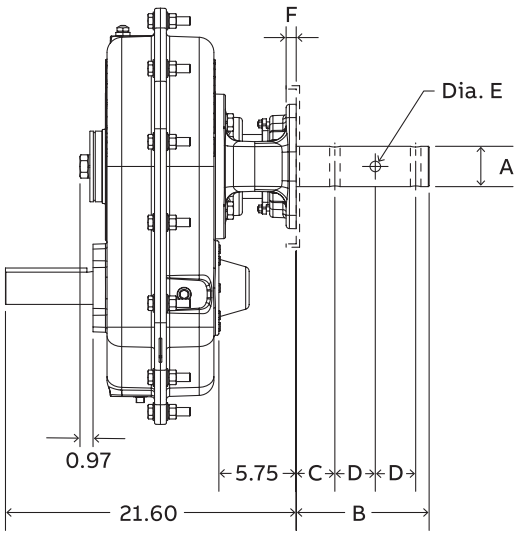
(10) Always check the driven shaft and key for strength

Closed bushing covers may not be compatible with belt guards or large sheave installations
Split bushing covers are designed for use on “driven machine” side of reducer with shaft through

TA7315H

Screw conveyor drive – single and double-reductions





All dimensions are in inches.

TA7315H

Screw conveyor drive – single and double-reductions

TA7315H screw conveyor drive dimensions

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

TA7315H accessories for screw conveyor drives [1] [4] [5]

Description	Part number	Weight (lb)
TA7315SCA Adapter and Hardware Kit [2]	907070	50.1
TA7315SCP Adjustable Packing Kit [3]	907071	2.5
TA7315SCS x 2-7/16 Driveshaft	907074	77.0
TA7315SCS x 3 Driveshaft	907075	83.4
TA7315SCS x 3-7/16 Driveshaft	907076	97.3
TA7315SCS x 2-7/16 Stainless-steel driveshaft	907082	77.0
TA7315SCS x 3-15/16 Driveshaft	907077	116.0
TA7315SCS x 3 Stainless-steel driveshaft	907083	83.4
TA7315SCS x 3-7/16 Stainless-steel driveshaft	907084	97.3
TA7315/8407MM Motor mount assembly (213—405T)	907090	183.7
TA7315/8407BG Belt guard - Pos. C (213—405T) [1]	907097	152.7
TA4—TA9 Hydra-Lock desiccant breather kit HL1	964364	2.0
XT Enclosed breather system, TA0-9	240050	2.0
OPTIFY Performance Sensor	820000	0.5

(1) Position C belt guards are the most popular for screw conveyor drive applications

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

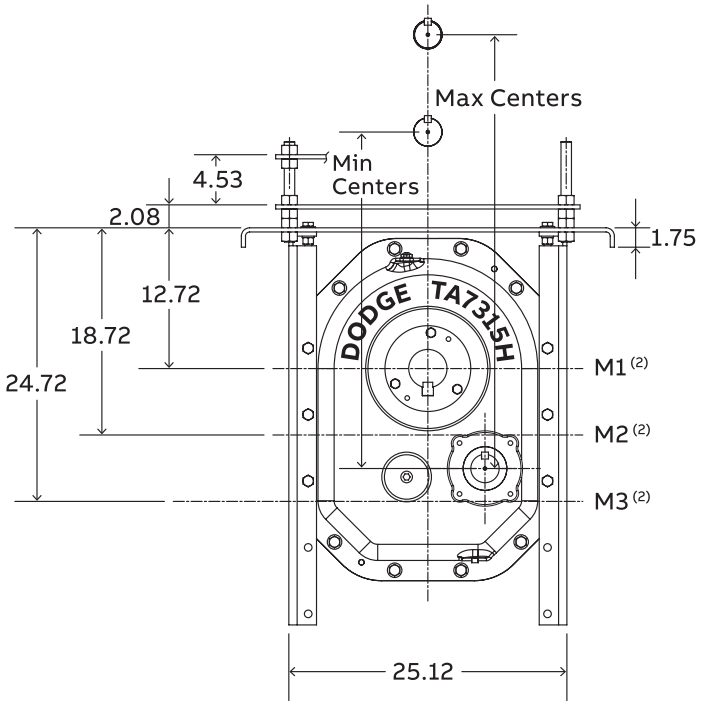
(3) SCP Adjustable packing kit consists of flange, mounting hardware, and braided packing seals

(4) SCS Driveshaft is a shaft only. Hardware is stocked with the adapter and hardware kit.

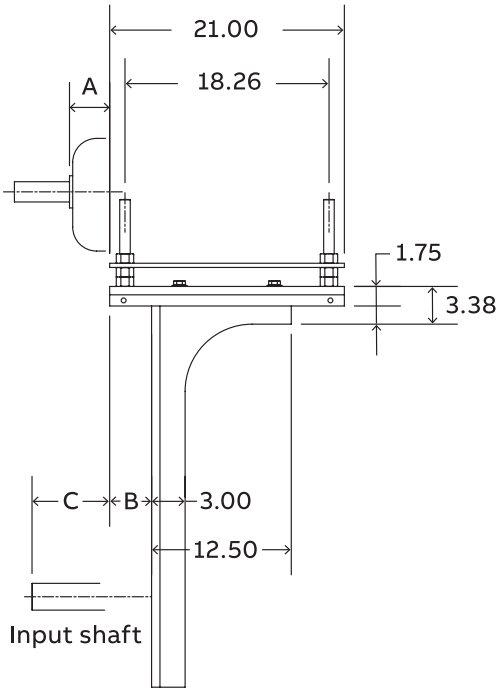
(5) To complete TA II screw conveyor drive, order a TA II reducer, SCA adapter and hardware kit, and SCS driveshaft. The SCP adjustable packing kit is an optional accessory.

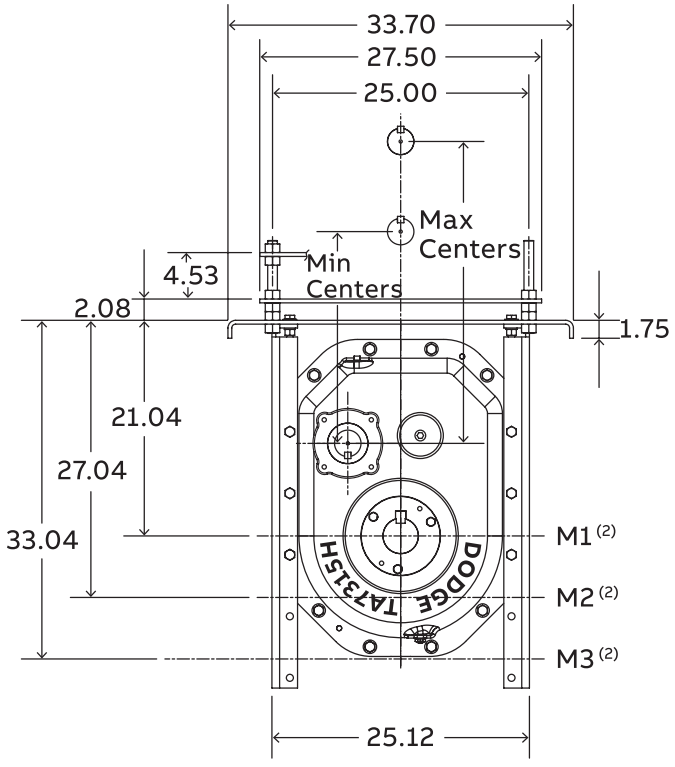
TA7315H

Motor mount dimensions – position B and D



Position B





Position D

All dimensions are in inches.

TA7315H

Motor mount dimensions – position B and D

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

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

Notes:

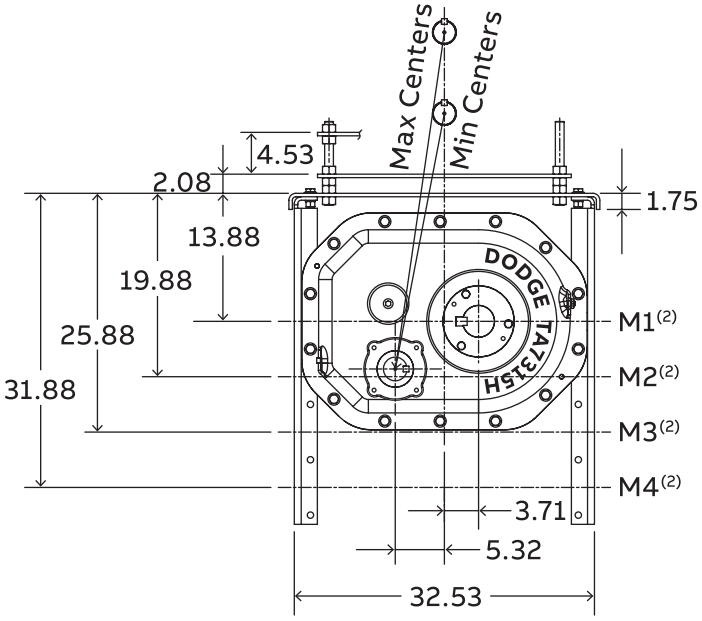
(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

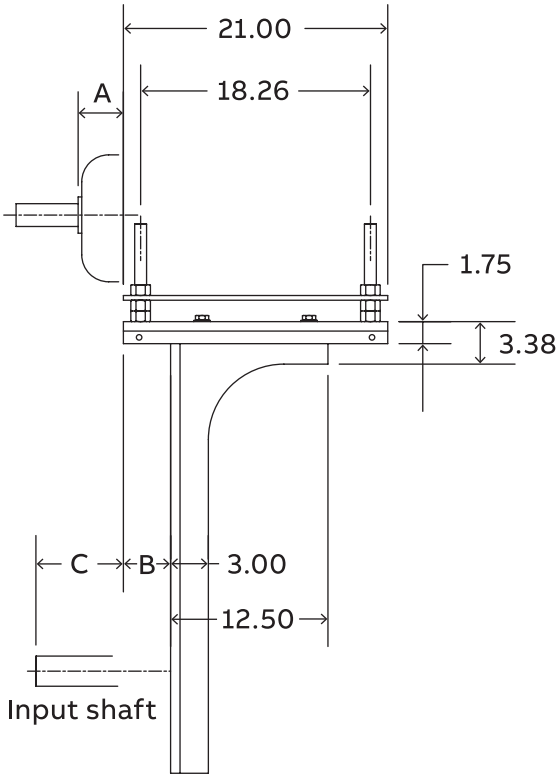
Minimum centers contain 0.5 inches to allow for belt assembly

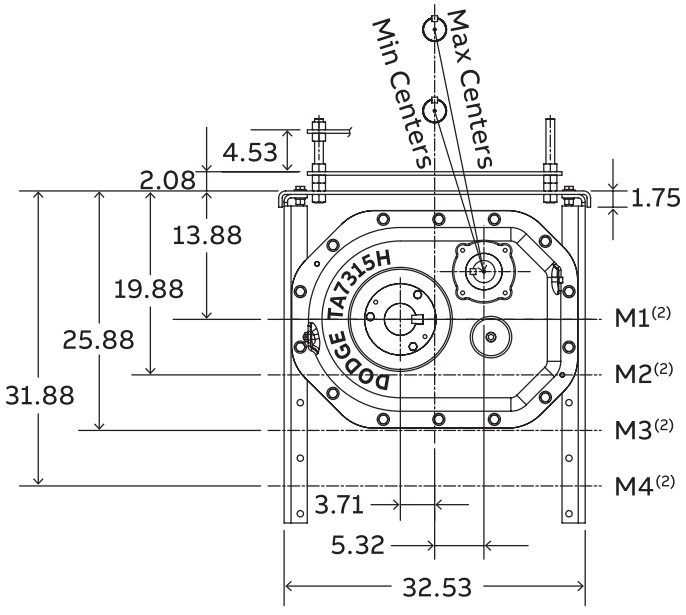
TA7315H

Motor mount dimensions – position A and C



Position A





Position C

All dimensions are in inches.

TA7315H

Motor mount dimensions – position A and C

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

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

Table A - Screw conveyor motor mount minimum "M" mounting positions [4]

Nominal screw Dia	Trough height Dim	Minimum mounting position							
		TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H
6	7.00	M2	M3	M2	M2	M2	M1	M1	M1
9	9.00	M3	M4	M3	M3	M2	M2	M2	M1
12	10.00	M4	M4	M3	M3	M2	M2	M2	M1
14	11.00	M4	M4	M4	M3	M3	M2	M2	M2
16	11.50	M4	M4	M4	M4	M3	M2	M2	M2
18	12.13	—	—	M4	M4	M3	M3	M2	M2
20	13.50	—	—	M4	M4	M3	M3	M3	M2
24	16.50	—	—	—	—	M4	M3	M3	M3

Notes:

(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

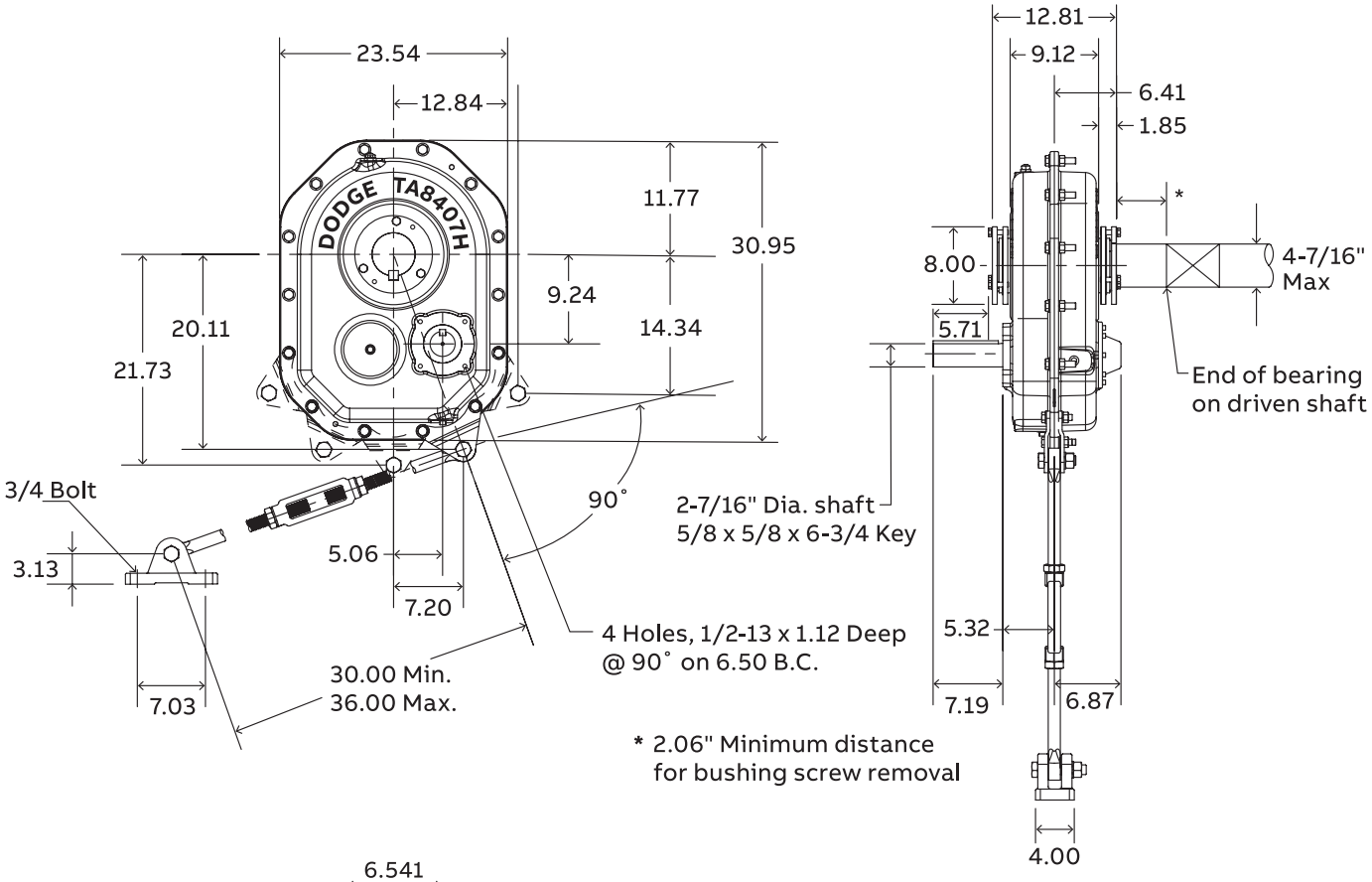
(3) See Table A below for minimum "M" mounting position required for specific screw diameter and reducer size

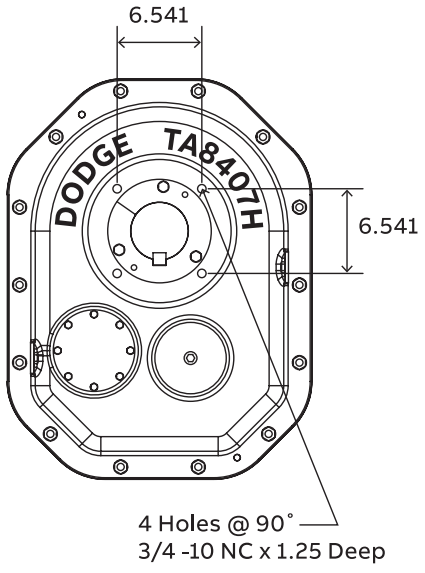
(4) For U or flared trough ends per CEMA 300—014

Minimum centers contain 0.5 inches to allow for belt assembly

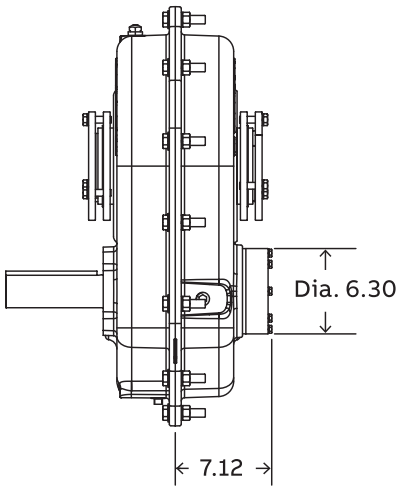
TA8407H

Taper-bushed reducers – double-reductions





Flange mounting dimensions



Reducer with backstop

All dimensions are in inches.

TA8407H

Taper-bushed reducers – double-reductions

TA8407H taper-bushed reducers [1]

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TA8407H15	908002	407D15	15.12	511.0
TA8407H25	908001	407D25	24.97	511.0
TA8407H40	908000	407D40	39.67	507.0

TA8407H accessories

Description	Part number	Weight (lb)
TA7315/8407RA Tie rod assembly +	907109	43.2
TA8407BS Backstop assembly (15, 25:1) [2]	908102	20.0
TA8407BS Backstop assembly (40:1) [2]	908103	21.0
TA7315/8407 Cooling fan assembly ●	907106	10.0
TA7315/8407MM Motor mount assembly (213—405T) [3]	907090	183.3
TA7315/8407BG Belt guard - Pos. B (213—405T)	907096	147.2
TA7315/8407BG Belt guard - Pos. C (213—405T) [4]	907097	152.7
TA7315/8407BG Belt guard - Pos. D (213—405T)	907099	148.2
TA4—TA9 Hydra-Lock desiccant breather kit HL1	964364	2.0
TA0107—TA9415 OPTIFY Breather OB1	750020	2.0
XT Enclosed breather system, TA0—9	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TA8407 Reliability kit	TA8RELKIT	10.0
TA7315/8407H V-Ring kit	907249	0.4
TA84075H Lube kit	LUBEKITTA8407	53.2
TA4—TA12 Vertical breather kit	904112	2.0

TA8407H tapered bushing kits [4] [5]

Bushing size			
Standard shaft bushing kit	Part number [6]	Weight (lb)	Shaft keyseat required [8] [9]
TA8407TB x 4-7/16 ▲	908020	26.0	1 x 1/2 x 12.82
TA8407TB x 4-3/16	908021	29.0	1 x 1/2 x 12.82
TA8407TB x 3-15/16	908022	32.1	1 x 1/2 x 12.82

Bushing size			
Short shaft bushing kit [7]	Part number	Weight (lb)	Shaft keyseat required [8] [9]
TA8407TBS x 4-7/16	908027	26.9	1 x 1/2 x 8.10
TA8407TBS x 3-15/16	908029	35.6	1 x 1/2 x 8.10

For smaller bushing sizes and bushings smaller than AGMA bore standards, contact Dodge Application Engineering at +1 864 284 5700 for shaft strength evaluation.

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
TA8407H	908142	1.7	020552	5

TA II is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TA II reducer.

Shaft guard and kits

Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TA8407H	020576	6	TAShaftGuard-08	11

Kits include adapter and extension for that size reducer.

▲ AGMA maximum bore size

● See page G1-129 for cooling fan dimensions, when a cooling fan is used with a closed bushing cover, the bushing cover may require modifications for clearance

◆ SCA Adapter and Hardware Kit is available for TA8407H reducers as a non-stock product. Consult Dodge Inside Sales for your local Sales Engineer for price and delivery.

\+ Tie rod assembly mounting locations are limited to positions shown in drawing

(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.

(2) See page G1-112 for input shaft speed necessary for backstop sprag lift-off

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

(4) Use position C belt guard for TA II reducers in screw conveyor drive applications

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

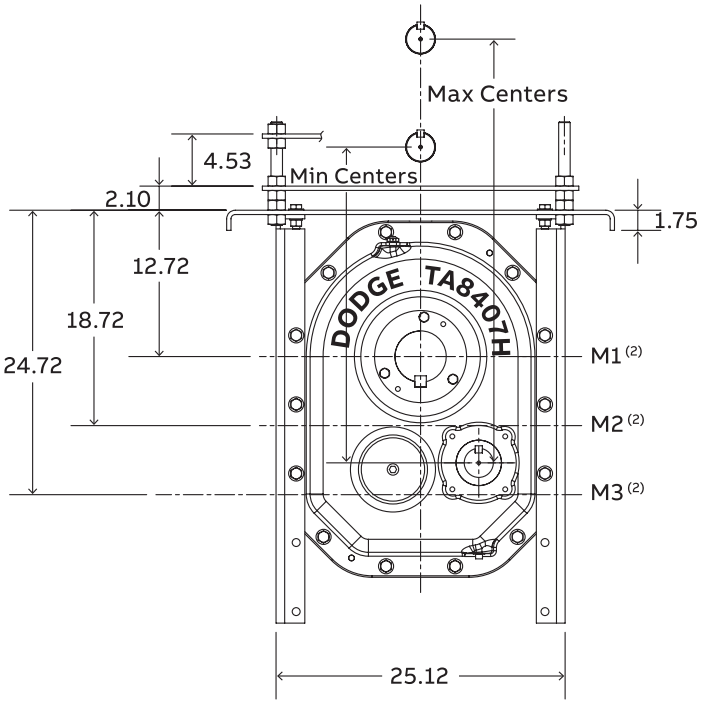
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

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

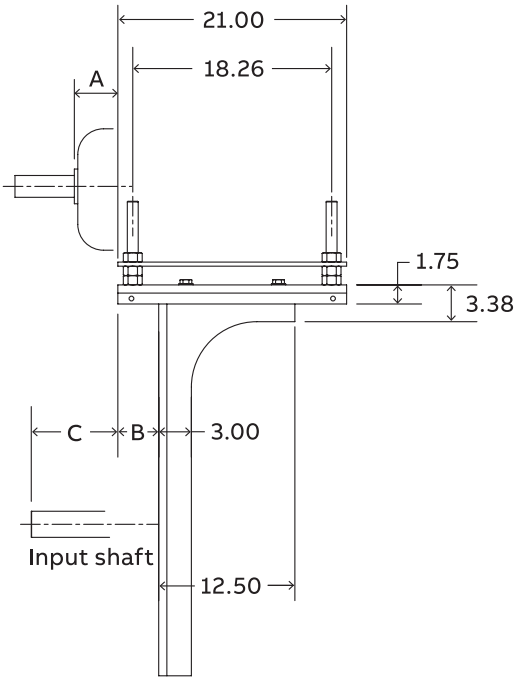
Closed bushing covers may not be compatible with belt guards or large sheave installations
Split bushing covers are designed for use on “driven machine” side of reducer with shaft through

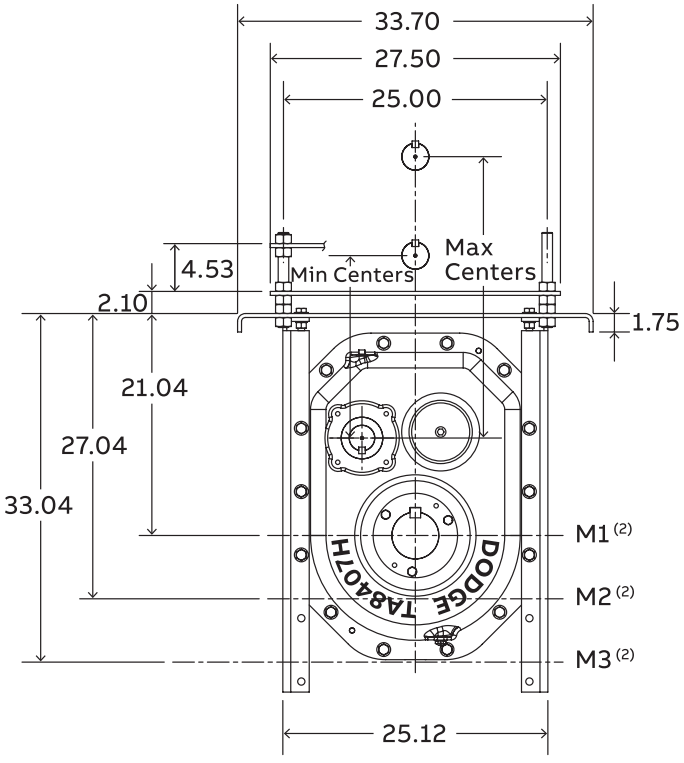
TA8407H

Motor mount dimensions – position B and D



Position B





Position D

All dimensions are in inches.

TA8407H

Motor mount dimensions – position B and D

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

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

Notes:

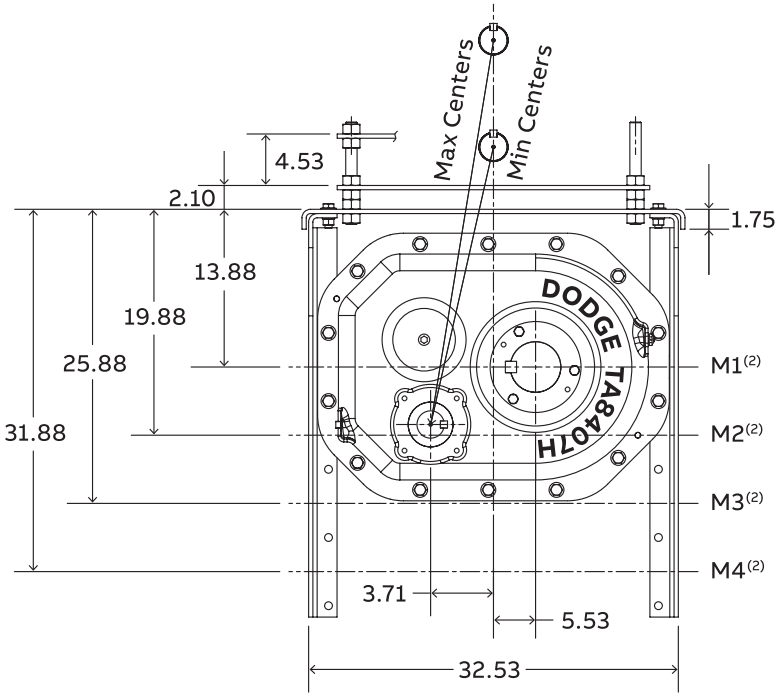
(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

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

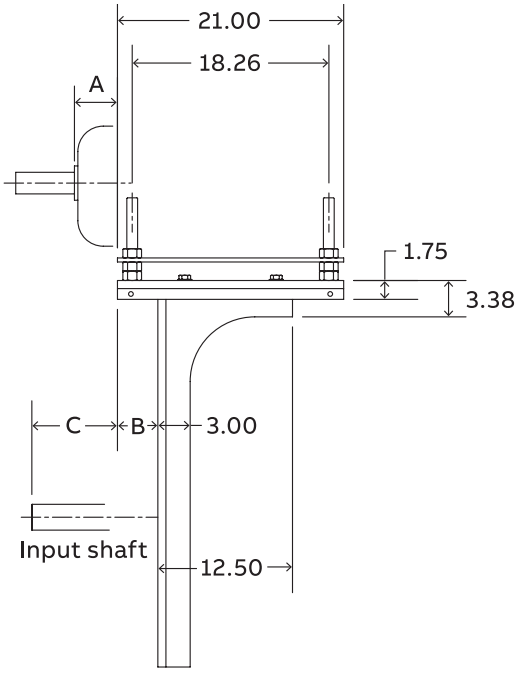
Minimum centers contain 0.5 inches to allow for belt assembly

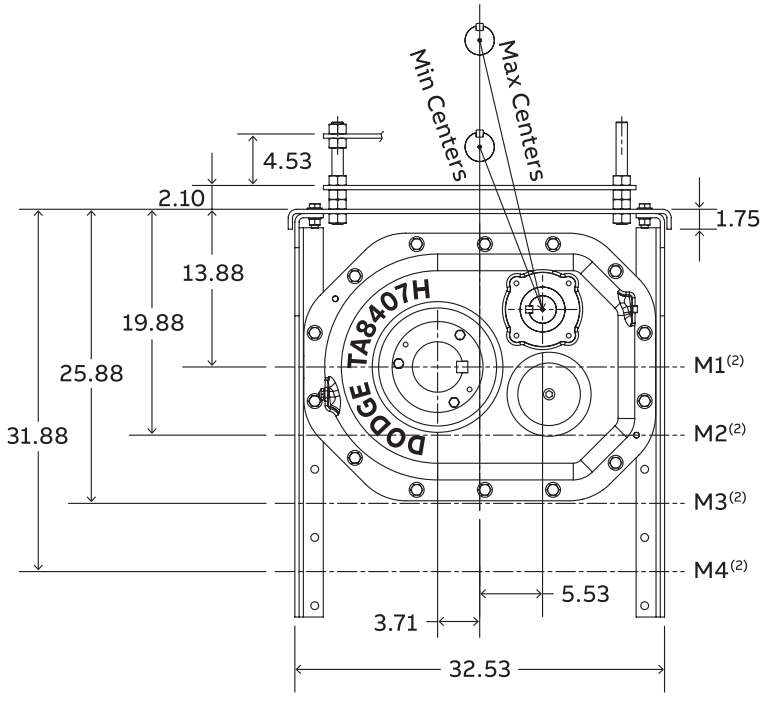
TA8407H

Motor mount dimensions – position A and C



Position A





Position C

All dimensions are in inches.

TA8407H

Motor mount dimensions – position A and C

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

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

Notes:

(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

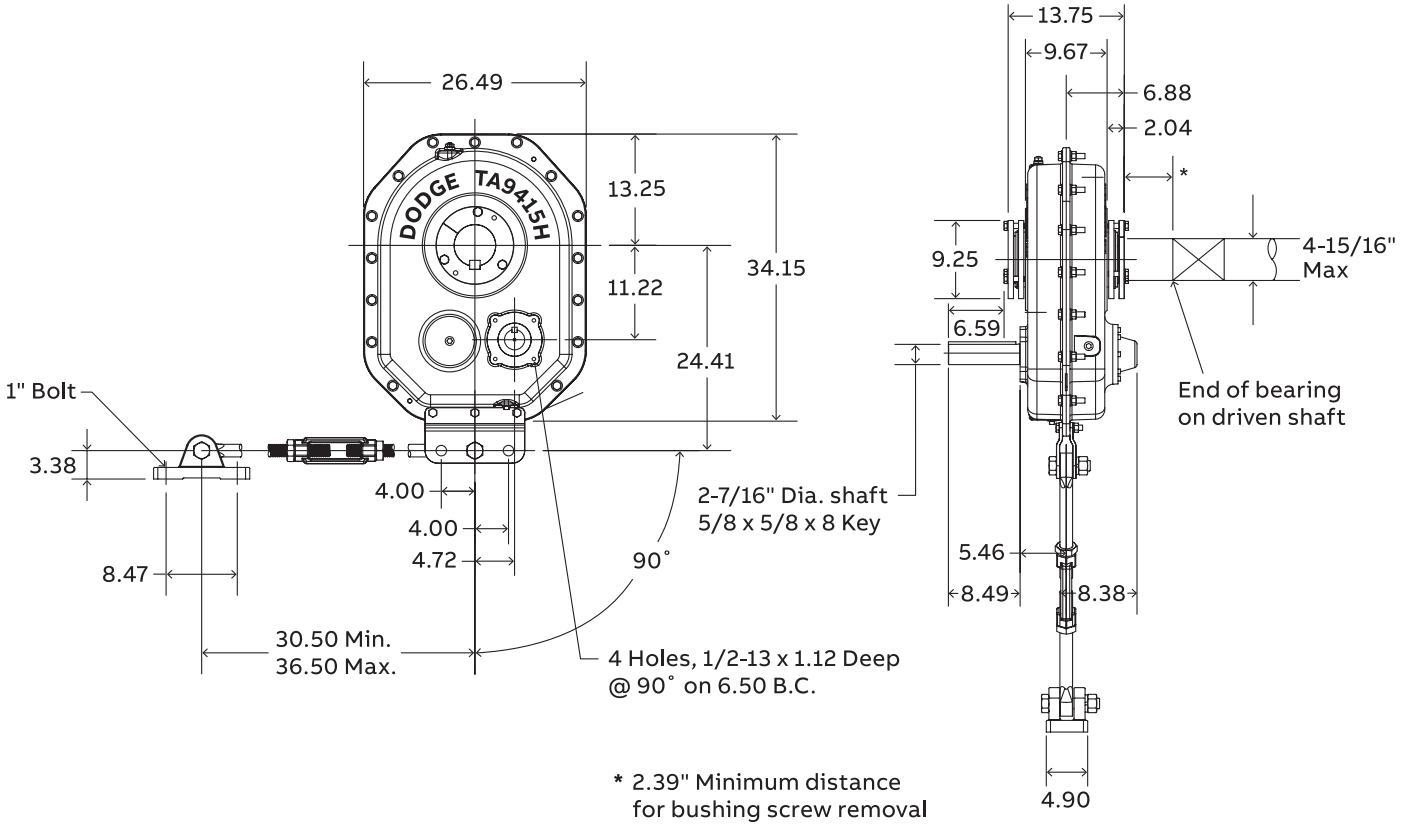
(2) M1, M2, M3, M4 go through output shaft centerline

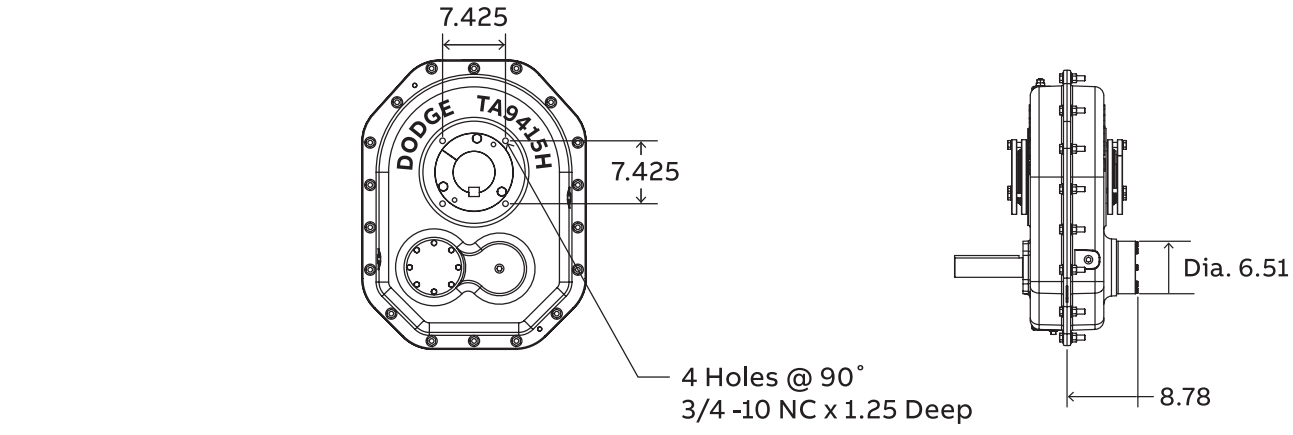
(3) See Table A below for minimum “M” mounting position required for specific screw diameter and reducer size

Minimum centers contain 0.5 inches to allow for belt assembly

TA9415H

Taper-bushed reducers – double-reductions





Flange mounting dimensions

Reducer with backstop

All dimensions are in inches.

TA9415H

Taper-bushed reducers – double-reductions

TA9415H taper-bushed reducers [1]

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TA9415H15	909002	415D15	15.10	735.0
TA9415H25	909001	415D25	25.44	735.0
TA9415H40	909000	415D40	39.41	732.0

TA9415H accessories

Description	Part number	Weight (lb)
TA9415RA Tie rod assembly +	909109	76.8
TA9415BS Backstop assembly (15, 25:1) [2]	909102	20.0
TA7315/9415BS 40:1 Backstop assembly [2]	907103	21.0
TA9415MM Motor mount assembly (254—445T) [3]	909090	273.7
TA9415BG Belt guard - Pos. B (254—445T)	909096	158.1
TA9415 Belt guard assembly Pos. B M2	909101	190.0
TA9415BG Belt guard - Pos. D (254—445T)	909099	159.1
TA9415 Cooling fan assembly ●	909106	12.4
TA4—TA9 Hydra-Lock desiccant breather kit HL1	964364	2.0
TA0107—TA9415 OPTIFY Breather OB1	750020	2.0
XT Enclosed breather system, TA0—9	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TA9415 Reliability kit	TA9RELKIT	10.0
TA9415H V-Ring kit	909249	0.5
TA9415H Lube kit	LUBEKITTA9415	79.8
TA4—TA12 Vertical breather kit	904112	2.0

TA9415H tapered bushing kits [4]

Bushing size Standard shaft bushing kit	Part number [5]	Weight (lb)	Shaft keyseat required [7] [8]
TA9415TB x 4-15/16 ▲	909020	38.4	1-1/4 x 5/8 x 13.74
TA9415TB x 4-7/16	909021	43.4	1 x 1/2 x 13.74

For smaller bushing sizes and bushings smaller than AGMA bore standards, contact Dodge Application Engineering at +1 864 284 5700 for shaft strength evaluation.

Bushing size Short shaft bushing kit [6]	Part number	Weight (lb)	Shaft keyseat required [7] [8]
TA9415TBS x 4-15/16	909025	40.2	1-1/4 x 5/8 x 8.56
TA9415TBS x 4-7/16	909026	48.8	1 x 1/2 x 8.56

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
TA9415H	909142	2	020553	5

TA II is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TA II reducer.

Shaft guard and kits

Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TA9415H	020577	6	TAShaftGuard-09	11

Kits include adapter and extension for that size reducer.

▲ AGMA maximum bore size

● See page G1-129 for cooling fan dimensions, when a cooling fan is used with a closed bushing cover, the bushing cover may require modifications for clearance

\+ Tie rod assembly mounting locations are limited to positions shown in drawing

(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.

(2) See page G1-112 for input shaft speed necessary for backstop sprag lift-off

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

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

(5) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key.

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

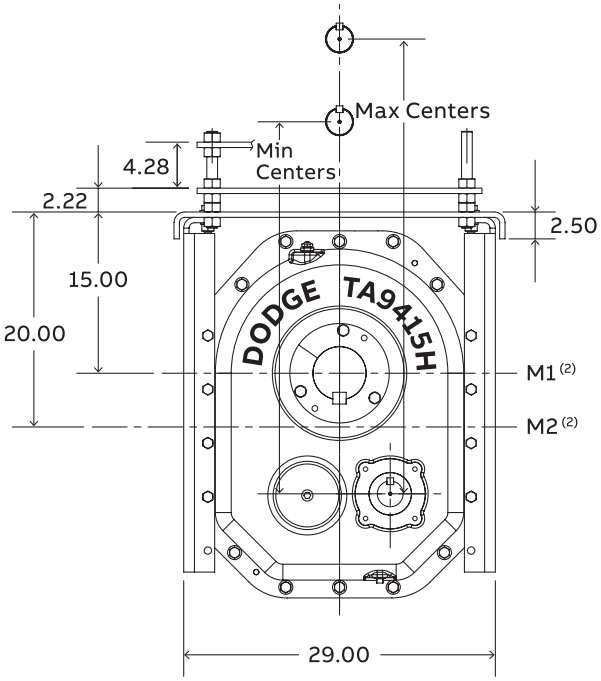
(7) Minimum keyseat and shaft length required to mount reducer with bushing kit

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

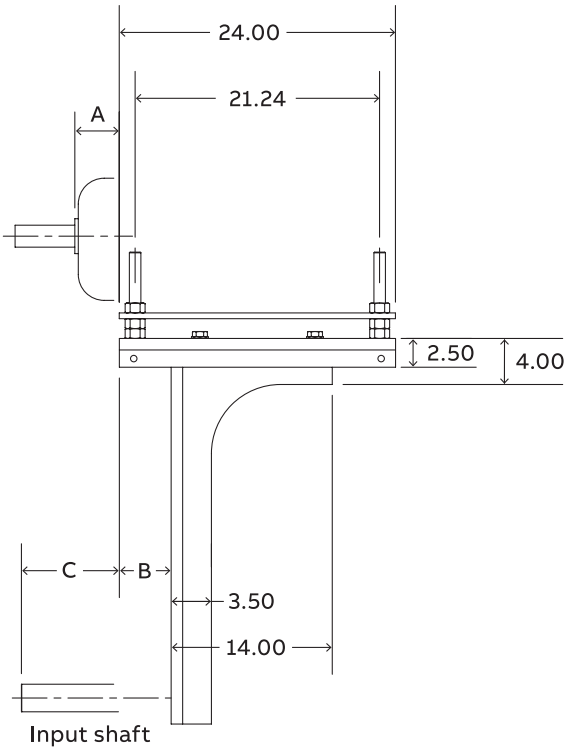
Closed bushing covers may not be compatible with belt guards or large sheave installations
Split bushing covers are designed for use on “driven machine” side of reducer with shaft through

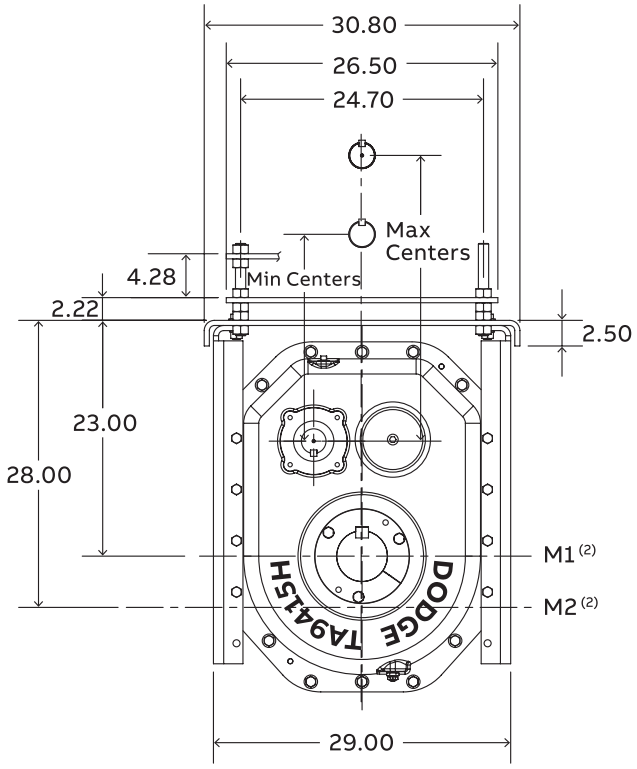
TA9415H

Motor mount dimensions – position B and D



Position B





Position D

All dimensions are in inches.

TA9415H

Motor mount dimensions – position B and D

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

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

Notes:

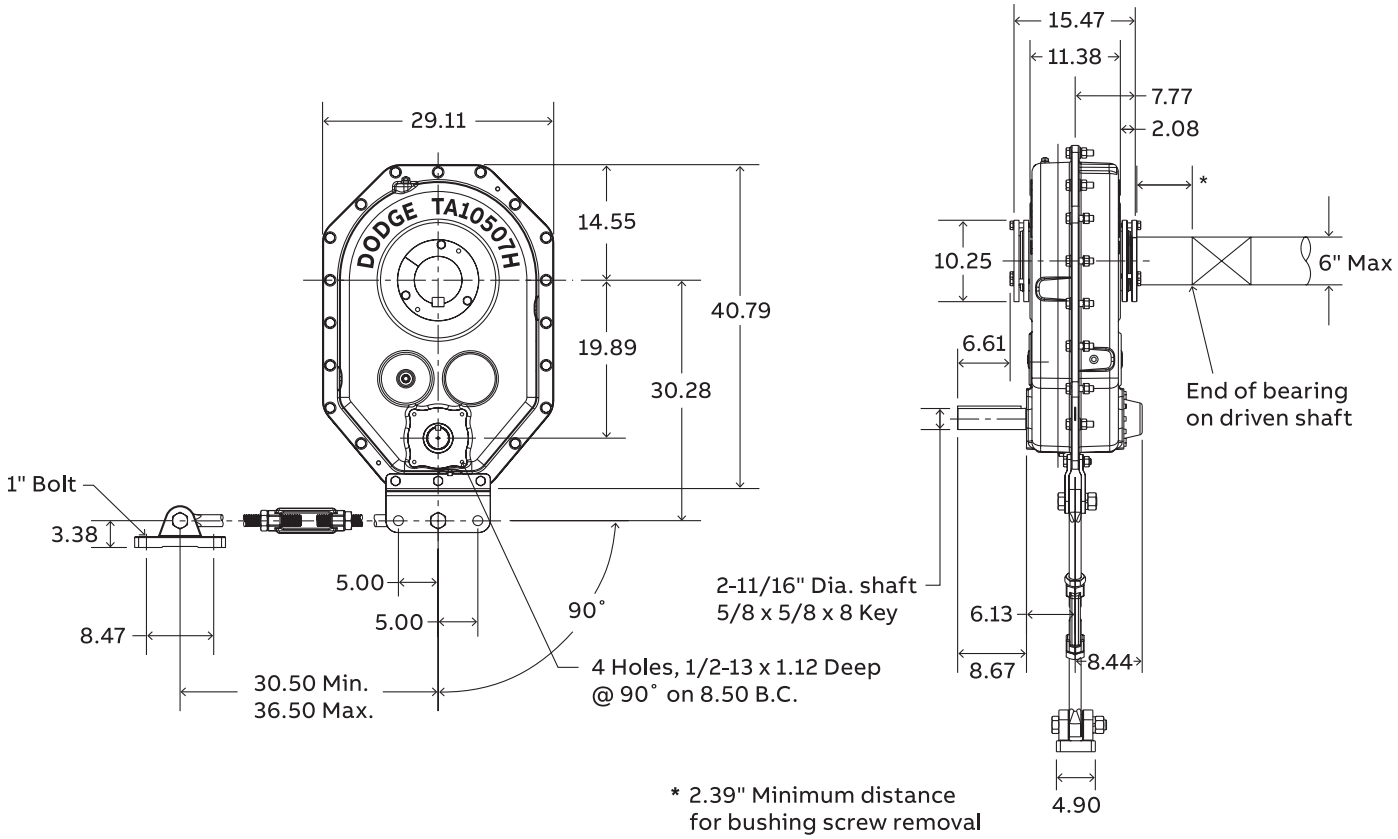
(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

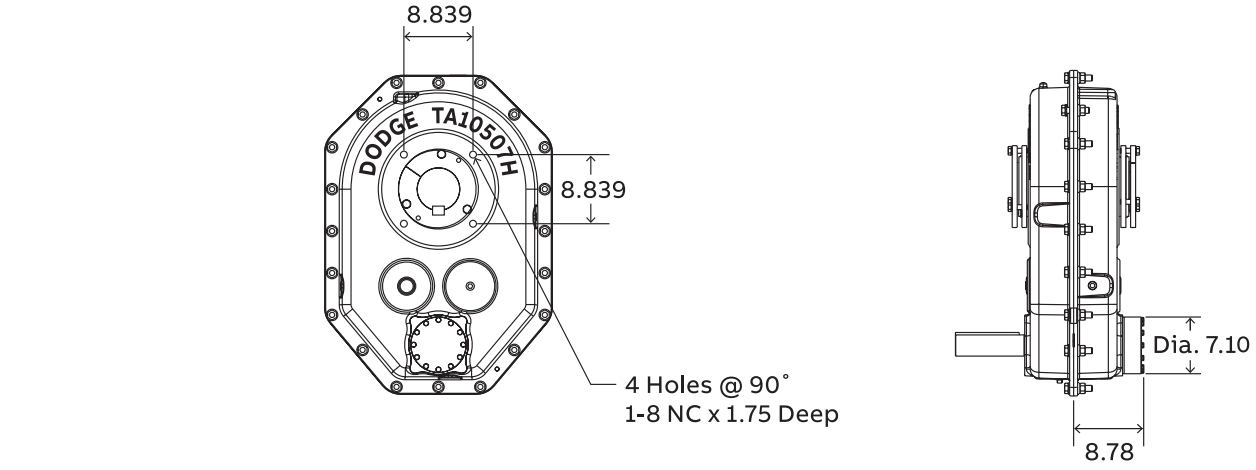
(2) M1, M2, M3, M4 go through output shaft centerline

Minimum centers contain 0.5 inches to allow for belt assembly

TA10507H

Taper-bushed reducers – double-reductions





Flange mounting dimensions

Reducer with backstop

All dimensions are in inches.

TA10507H

Taper-bushed reducers – double-reductions

TA10507H taper-bushed reducers [1]

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TA10507H15	910002	507D15	15.09	1022.0
TA10507H25	910001	507D25	25.18	1022.0
TA10507H40	910000	507D40	39.68	1018.0

TA10507H accessories

Description	Part number	Weight (lb)
TA10507RA Tie rod assembly +	910109	87.0
TA10507BS Backstop assembly (15, 25:1) [2]	910102	23.5
TA10507BS 40:1 Backstop assembly [2]	910103	25.0
TA10507 Cooling fan assembly ●	910106	12.4
TA10507MM Motor mount assembly (254—445T) [3]	910090	286.7
TA10507BG Belt guard - Pos. B (254—445T)	910096	158.1
TA10507BG Belt guard - Pos. D (254—445T)	910099	175.0
TA10—TA12 Hydra-Lock dessicent breather kit HL2	964366	2.0
TA10—TA12 OPTIFY Breather OB4	750021	4.0
XT Enclosed breather system, TA10—12	240051	2.0
OPTIFY Performance Sensor	820000	0.5
TA10507 Reliability kit	TA10RELKIT	10.0
TA10507H V-Ring kit	910249	0.8
TA10507H Lube kit	LUBEKITTA10507	121.5
TA4—TA12 Vertical breather kit	904112	2.0

TA10507H tapered bushing kits [4]

Bushing size				Bushing size			
Standard shaft bushing kit	Part number [5]	Weight (lb)	Shaft keyseat required [7] [8]	Short shaft bushing kit [6]	Part number	Weight (lb)	Shaft keyseat required [7] [8]
TA10507TB x 6	910020	40.8	1-1/2 x 3/4 x 15.46	TA10507TBS x 5-7/16	910027	47.2	1-1/4 x 5/8 x 9.67
TA10507TB x 5-15/16	910021	43.2	1-1/2 x 3/4 x 15.46	TA10507TBS x 4-15/16	910028	66.9	1-1/4 x 5/8 x 9.67
TA10507TB x 5-7/16 ▲	910022	50.0	1-1/4 x 5/8 x 15.46				
TA10507TB x 4-15/16	910023	57.8	1-1/4 x 5/8 x 15.46				

For smaller bushing sizes and bushings smaller than AGMA bore standards, contact Dodge Application Engineering at +1 864 284 5700 for shaft strength evaluation.

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
TA10507H	910142	3	020554	6

TA II is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TA II reducer.

Shaft guard and kits

Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TA10507H	020578	7	TAShaftGuard-10	13

Kits include adapter and extension for that size reducer.

▲ AGMA maximum bore size

● See page G1-129 for cooling fan dimensions, when a cooling fan is used with a closed bushing cover, the bushing cover may require modifications for clearance

\+ Tie rod assembly mounting locations are limited to positions shown in drawing

(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.

(2) See page G1-112 for input shaft speed necessary for backstop sprag lift-off

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

(4) Use position C belt guard for TA II reducers in screw conveyor drive applications

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

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

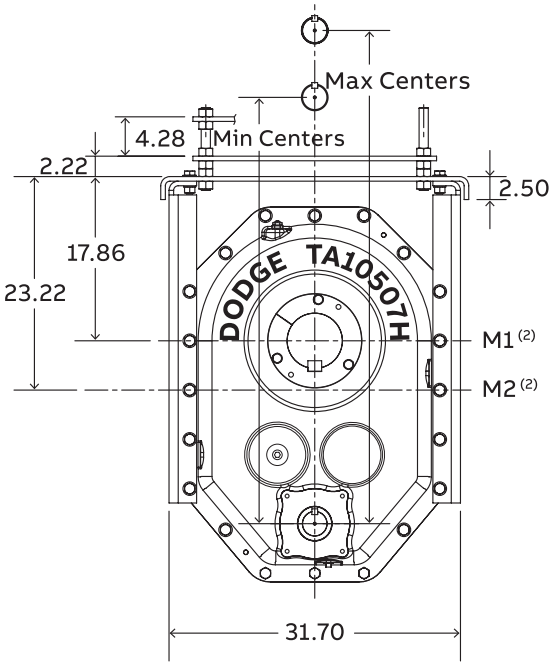
(10) Always check the driven shaft and key for strength

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

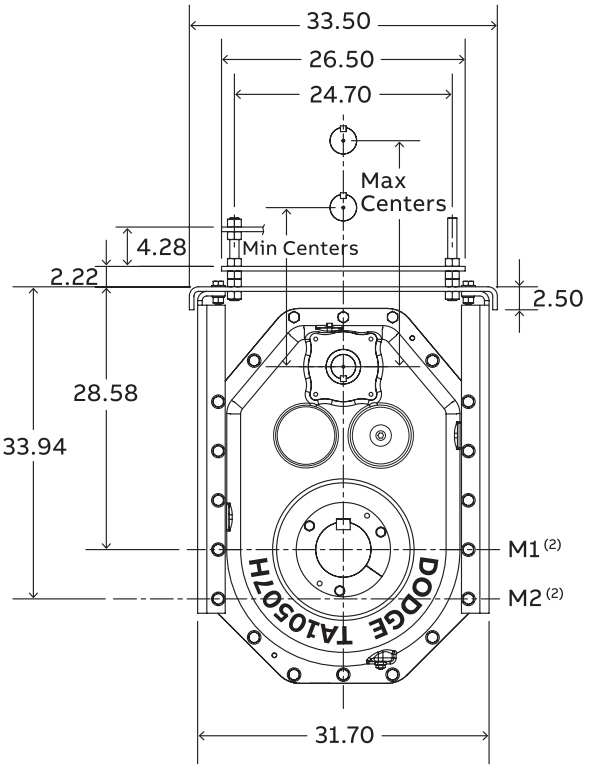
MTA is drilled and tapped to accept the ABS bushing cover bolts. Aluminum covers require customer fitment to the reducer. Bushing covers fit both the outboard and inboard side of the MTA reducer.

TA10507H

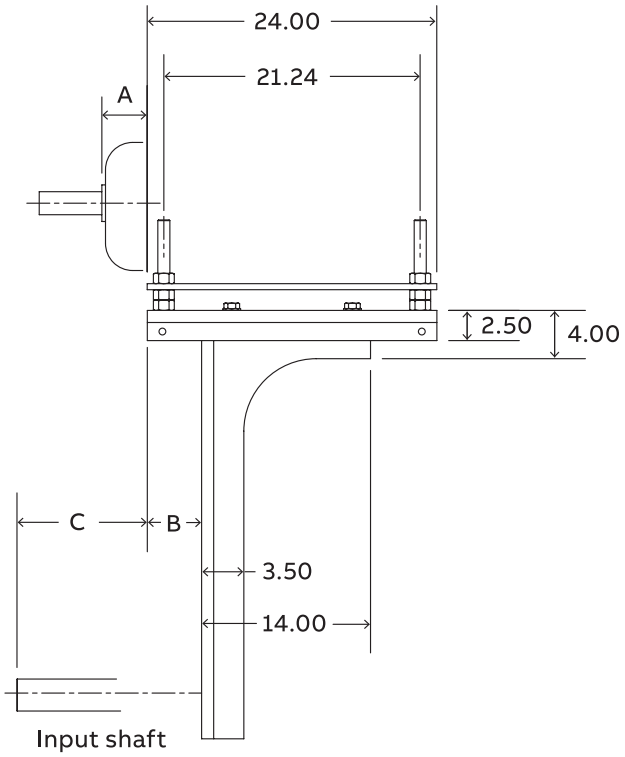
Motor mount dimensions – position B and D



Position B



Position D



All dimensions are in inches.

TA10507H

Motor mount dimensions – position B and D

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

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

Notes:

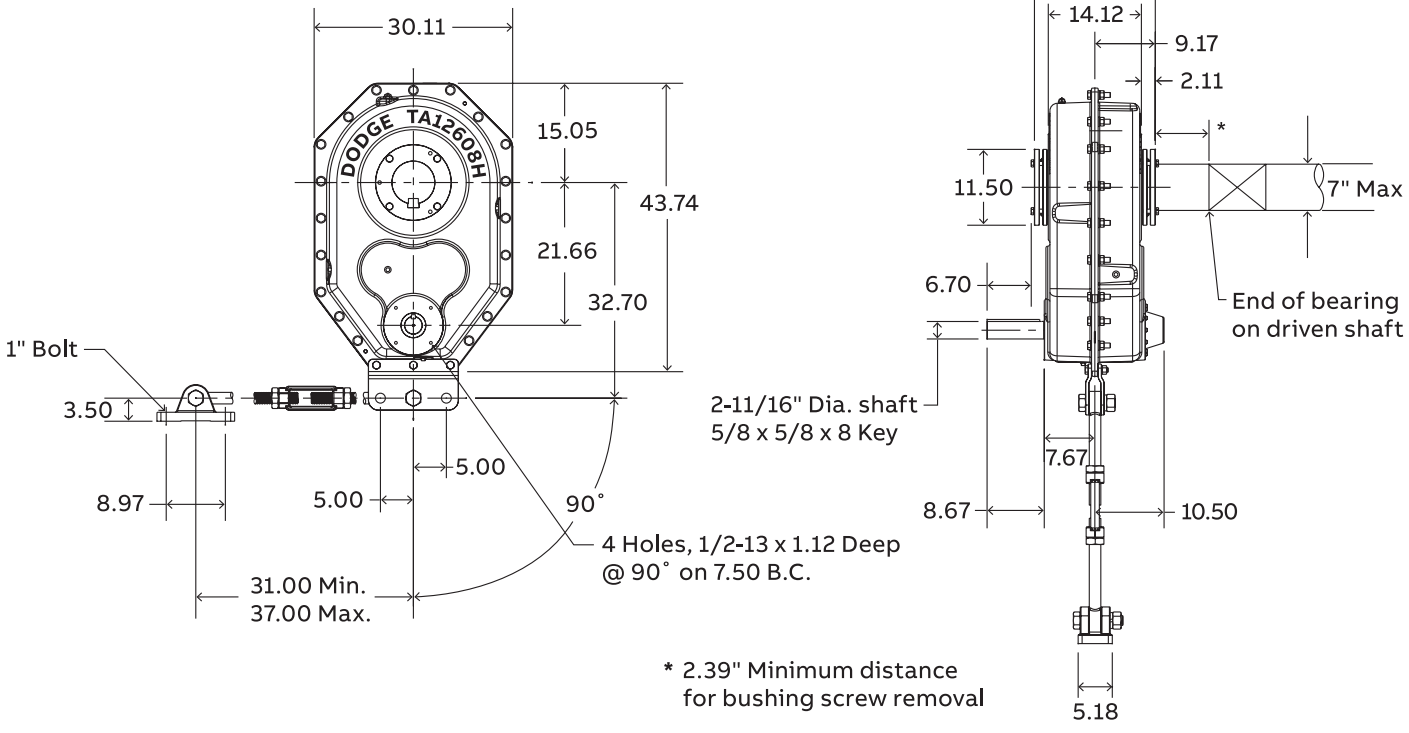
(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

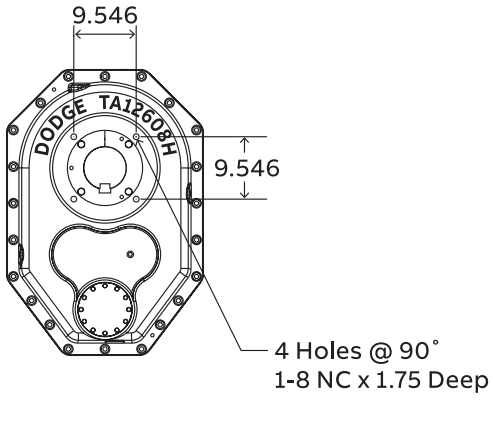
(2) M1, M2, M3, M4 go through output shaft centerline

Minimum centers contain 0.5 inches to allow for belt assembly

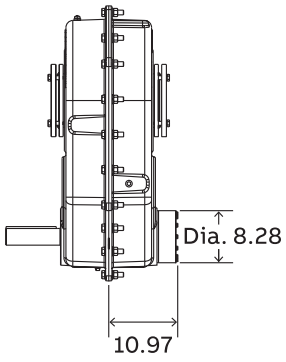
TA12608H

Taper-bushed reducers – double-reductions





Flange mounting dimensions



Reducer with backstop

All dimensions are in inches.

TA12608H

Taper-bushed reducers – double-reductions

TA12608H taper-bushed reducers [1]

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TA12608H15	912002	608D15	14.79	1392.0
TA12608H25	912001	608D25	25.03	1395.0
TA12608H40	912000	608D40	38.19	1393.0

TA12608H accessories

Description	Part number	Weight (lb)
TA12608RA Tie rod assembly +	912109	106.4
TA12608BS Backstop assembly (15, 25:1) [2]	912102	40.0
TA12608BS 40:1 Backstop assembly [2]	912103	41.1
TA12608MM Motor mount assembly (254—445T) [3]	912090	289.6
TA12608BG Belt guard - Pos. B (254—445T)	912096	190.5
TA12608BG Belt guard - Pos. D (254—445T)	912099	181.0
TA12608 Cooling fan assembly ●	912106	13.7
TA10—TA12 Hydra-Lock Desiccant breather Kit HL2	964366	2.0
TA10—TA12 OPTIFY Breather OB4	750021	4.0
XT Enclosed breather system, TA 10—12	240051	2.0
OPTIFY Performance Sensor	820000	0.5
TA10507 Reliability kit	TA10RELKIT	10.0
TA12608H V-Ring kit 912249	LUBEKITTA12608	0.8
TA12608H Lube kit	LUBEKITTA12608	170.1
TA4—TA12 Vertical breather kit	904112	2.0

TA12608H tapered bushing kits [4]

Bushing size			
Standard shaft bushing kit	Part number [5]	Weight (lb)	Shaft keyseat required [7] [8]
TA12608TB x 7	912020	58.2	1-3/4 x 3/4 x 18.32
TA12608TB x 6-1/2 ▲	912021	67.8	1-1/2 x 3/4 x 18.32
TA12608TB x 6-7/16	912022	69.1	1-1/2 x 3/4 x 18.32
TA12608TB x 5-15/16	912024	79.4	1-1/2 x 3/4 x 18.32
TA12608TB x 5-7/16	912025	86.7	1-1/4 x 5/8 x 18.32

For applications requiring bushings smaller than those listed above, please contact Dodge Application Engineering at +1 864 284 5700 for a shaft strength evaluation.

Bushing size			
Short shaft bushing kit [6]	Part number	Weight (lb)	Shaft keyseat required [7] [8]
TA12608TBS x 6-1/2	912027	73.5	1-1/2 x 3/4 x 11.60
TA12608TBS x 6-7/16	912028	75.7	1-1/2 x 3/4 x 11.60
TA12608TBS x 5-15/16	912030	92.6	1-1/2 x 3/4 x 11.60
TA12608TBS x 5-7/16	912031	106.1	1-1/4 x 5/8 x 11.60

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
TA12608H	912142	3	020555	6

TA II is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TA II reducer.

Shaft guard and kits

Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TA12608H	020579	7	TAShaftGuard-12	13

Kits include adapter and extension for that size reducer.

▲ AGMA maximum bore size

● See page G1-129 for cooling fan dimensions, when a cooling fan is used with a closed bushing cover, the bushing cover may require modifications for clearance

\+ Tie rod assembly mounting locations are limited to positions shown in drawing

(1) Reducers are supplied from stock, and are ready for vertical mounting and for flange mounting. Tie rod assembly is not included with reducer, this must be ordered as a separate part number.

(2) See page G1-112 for input shaft speed necessary for backstop sprag lift-off

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

(4) Use position C belt guard for TA II reducers in screw conveyor drive applications

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

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

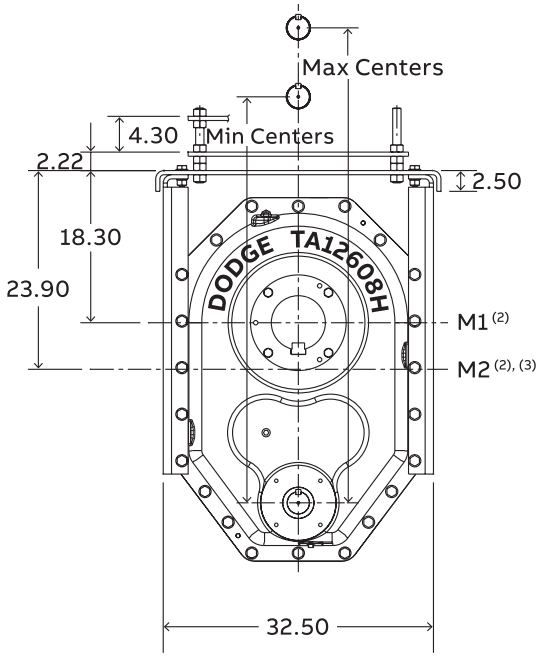
(10) Always check the driven shaft and key for strength

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

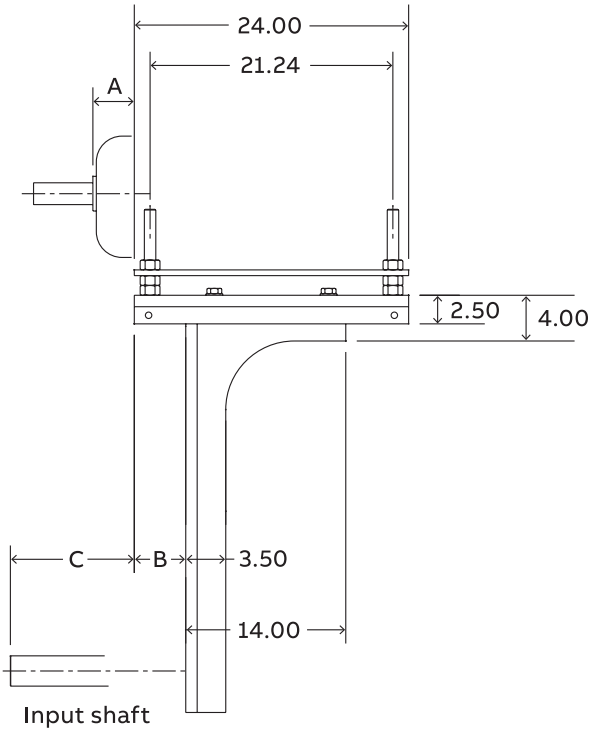
MTA is drilled and tapped to accept the ABS bushing cover bolts. Aluminum covers require customer fitment to the reducer.
Bushing covers fit both the outboard and inboard side of the MTA reducer.

TA12608H

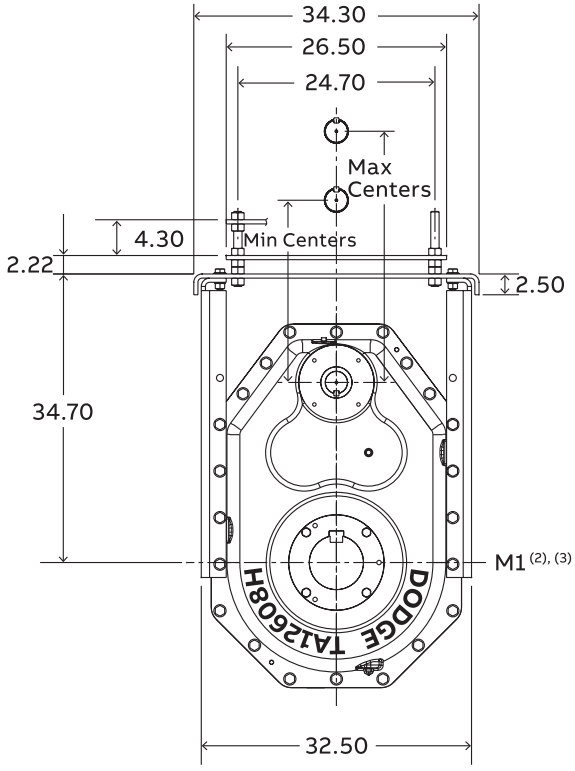
Motor mount dimensions – position B and D



Position B



Input shaft



Position D

All dimensions are in inches.

TA12608H

Motor mount dimensions – position B and D

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						254T and 256T			284T and 286T			324T and 326T		
						A	Centers		A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max		Min	Max
Position B	1.68	7.32	8.02	13.66	M1	1.56	48.9	52.7	1.16	49.7	53.5	0.38	50.7	54.5
					M2		54.5	58.3		55.3	59.1		56.3	60.1
Position D	1.68	7.32	8.02	13.66	M1	1.56	22.0	25.8	1.16	22.8	26.6	0.38	23.8	27.6

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						364T and 365T			404T and 405T			444T and 445T		
						A	Centers		A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max		Min	Max
Position B	1.68	7.32	8.02	13.66	M1	1.01	51.7	55.5	0.75	52.7	56.5	1.62	53.7	57.5
					M2		57.3	61.1	—	58.3	62.1		59.3	63.1
Position D	1.68	7.32	8.02	13.66	M1	1.01	24.8	28.6	0.75	25.8	29.6	1.62	26.8	30.6

Notes:

(1) Motor mount will fit NEMA and IEC frame motors; however, motor mount hardware are in inch dimensions.

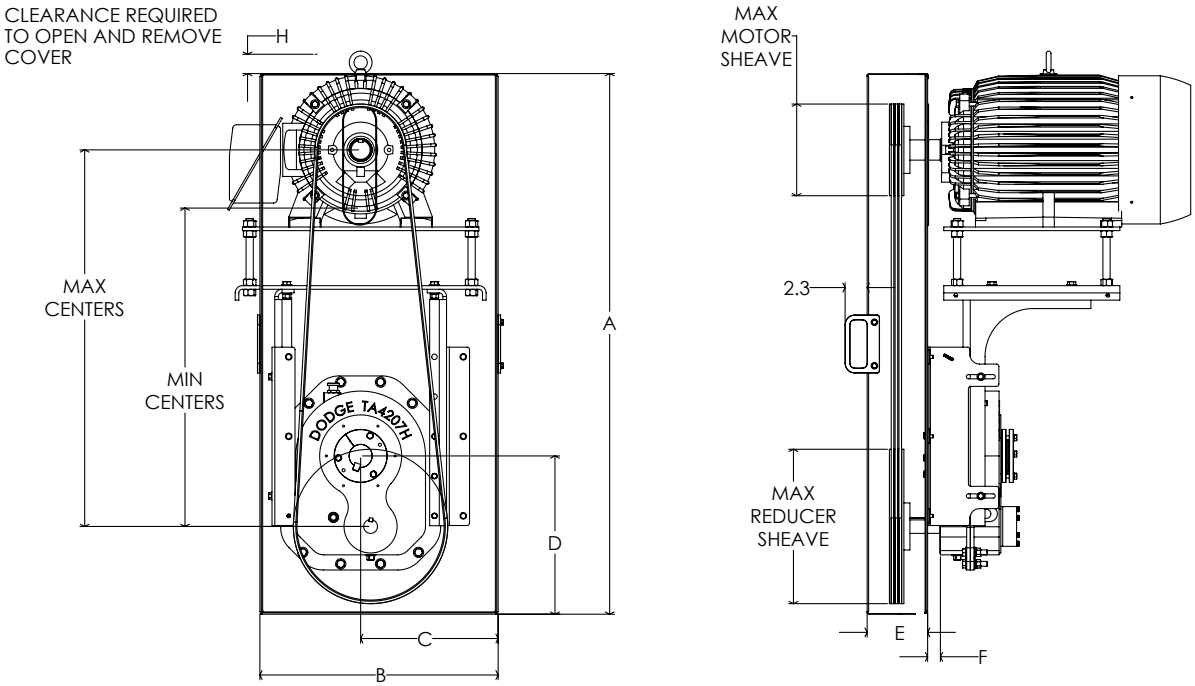
(2) M1, M2, M3, M4 go through output shaft centerline

Minimum centers contain 0.5 inches to allow for belt assembly

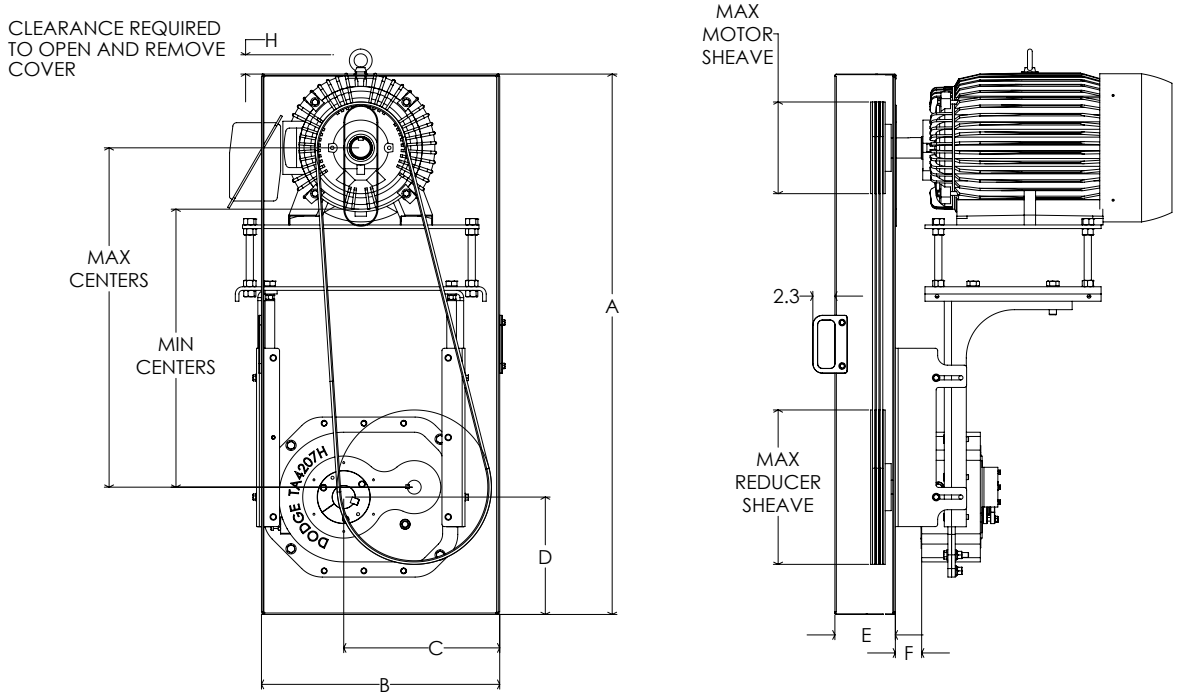
Belt guard TA0107L—TA12608H

Standard belt guard dimensions

Position B



Position C



Belt guard TA0107L—TA12608H

Standard belt guard dimensions

Case size	Mounting position	Shaft centers		Max sheave diameter		A	B	C
		Min	Max	Motor	Reducer			
TA0107L	B	17.5	27.5	11.0	12.4	43.1	19.3	12.3
	C	12.6	25.2	11.4	12.3	43.1	19.3	13.3
TA1107H	B	17.7	30.0	10.8	12.0	43.1	19.3	12.3
	C	13.8	28.3	9.4	12.8	43.1	19.3	13.3
TA2115H	B	18.5	31.1	8.6	12.8	45.0	19.9	11.9
	C	13.8	28.9	9.3	12.3	45.0	19.8	13.1
TA3203H	B	19.8	34.3	9.2	16.8	50.8	21.8	14.7
	C	13.6	31.0	15.8	14.0	50.8	21.8	17.4
TA4207H	B	22.6	39.4	10.3	16.9	56.0	24.7	14.6
	C	15.4	35.6	16.5	15.9	56.0	24.7	16.7
TA5215H	B	26.2	43.4	11.8	17.8	60.5	27.9	14.6
	C	16.5	38.0	18.6	16.9	60.5	27.9	17.85

Case size	Mounting position	D	E		F	H	J
			Min	Max			
TA0107L	B	11.74	0.00	1.9	5.6	2.00	4.22
	C	7.33	0.00	1.9	5.6	2.00	4.22
TA1107H	B	11.74	0.00	1.9	56	2.00	4.22
	C	5.50	0.00	1.9	5.6	2.00	4.22
TA2115H	B	12.70	0.00	1.6	5.6	2.00	4.22
	C	7.00	0.00	1.6	5.6	2.00	4.22
TA3203H	B	15.27	0.2	2.8	6.3	2.00	5.59
	C	7.32	0.2	2.8	6.3	2.00	5.59
TA4207H	B	16.56	0.2	2.7	6.3	2.00	5.59
	C	8.32	0.2	2.7	6.3	2.00	5.59
TA5215H	B	18.25	0.1	2.7	6.4	2.00	6.09
	C	9.60	0.1	2.7	6.4	2.00	6.09

Case size	Mounting position	Shaft centers		Max sheave diameter		A	B	C
		Min	Max	Motor	Reducer			
TA6307H	B	27.5	47.4	12.8	19.9	66.0	31.3	14.15
	C	17.9	42.2	21.0	20.0	66.0	31.3	17.94
TA7315H	B	29.5	49.0	12.0	25.0	73.2	33.1	18.51
	C	16.8	43.0	22.0	25.0	73.2	33.1	22.39
TA8407H	B	26.4	47.8	12.0	25.2	73.2	33.1	13.45
	C	17.6	42.1	22.0	24.6	73.2	33.1	22.39
TA9415H	B	35.5	48.9	15.4	27.0	73.2	33.1	19.57
TA10507H	B	46.7	60.6	23.2	30.8	91.1	35.3	16.30
TA12608H	B	48.9	63.1	18.2	22.0	91.1	35.3	16.30

Case size	Mounting position	D	E		F	H	J
			Min	Max			
TA6307H	B	19.92	1.2	4.7	9.3	2.00	6.59
	C	10.72	1.2	4.7	9.3	2.00	6.59
TA7315H	B	23.38	0.8	3.3	8.4	2.00	7.09
	C	10.25	0.8	3.3	8.4	2.00	7.09
TA8407H	B	23.38	0.6	3.1	8.4	2.00	7.09
	C	10.25	0.6	3.1	8.4	2.00	7.09
TA9415H	B	26.22	0.00	3.5	8.4	2.00	8.09
TA10507H	B	36.14	0.9	4.5	9.6	2.00	8.59
TA12608H	B	37.91	0.00	3.5	9.6	2.00	8.59

(1) Minimum centers allow 0.5 inches for belt assembly
(2) Maximum sheave diameters allow 0.5 inches clearance for belt assembly
(3) Range of center distances on belt guard may be less than the full range of center distances available on the motor mount
(4) Belt guard cover is lift-off cover construction
(5) Belt guard attaches to motor mount brackets
(6) "E" maximum dimension allows clearance for cooling fan
(7) Stock Position-B Belt guards cannot be used with TA II Reducers mounted in 'D' position. Use a Position-D Belt guard
(8) Stock Position-C Belt guards cannot be used with TA II Reducers mounted in 'A' position. A special belt guard is required. Consult Dodge Inside Sales or your local Dodge Sales Engineer for price and delivery.
(9) G = maximum sheave face width

Engineering and technical data

NEMA motor and TA II information, backstop lift-off speed

Table 1: NEMA motor information (1,750 rpm)

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

Table 2: TA II reducer information

TA II reducer	Ratio	Input shaft diameter (in)	Minimum sheave diameter
TA0107L	All	1	See Class I, II and III Selection tables, starting on page G1-14, for minimum reducer sheave recommendations
TA1107H	All	1	
TA2115H	5:1 - 25:1	1-1/8	
	33:1	1	
TA3203H	5:1 - 25:1	1-3/8	
	32:1	1-1/8	
TA4207H	All	1-7/16	
TA5215H	All	1-5/8	
TA6307H	All	2-3/16	
TA7315H	All	2-7/16	
TA8407H	All	2-7/16	
TA9415H	All	2-7/16	
TA10507H	All	2-11/16	
TA12608H	All	2-11/16	

Table 3: TA II backstop lift-off speed (1)

TA II Reducer	Minimum input shaft speed (rpm)
TA0107L	875
TA1107H	875
TA2115H	875
TA3203H	825
TA4207H	780
TA5215H	720
TA6307H	610
TA7315H	490
TA8407H	610
TA9415H	490
TA10507H	480
TA12608H	450

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

Maximum input and output speeds

Maximum input speed (rpm)

Case size	Nominal ratio				
	5:1	9:1	15:1	25:1	32:1 and 40:1
TA0107L	2,080	1,800	1,791	2,007	1,750
TA1107H	2,000	1,798	1,789	2,005	1,750
TA2115H	2,080	1,821	1,874	2,005	1,750
TA3203H	1,965	1,847	1,808	1,996	1,750
TA4207H	2,000	1,846	1,800	2,010	1,955
TA5215H	2,042	1,837	1,791	2,000	1,945
TA6307H	1,978	1,843	1,854	1,989	1,916
TA7315H	2,075	1,943	1,790	1,987	1,983
TA8407H	—	—	1,814	1,997	1,983
TA9415H	—	—	1,812	2,035	1,970
TA10507H	—	—	1,811	2,015	1,984
TA12608H	—	—	1,775	2,002	1,909

Maximum output speed (rpm)

Case size	Nominal ratio				
	5:1	9:1	15:1	25:1	32:1 and 40:1
TA0107L	400	200	120	80	57
TA1107H	400	200	120	80	57
TA2115H	400	200	120	80	53
TA3203H	400	200	120	80	54
TA4207H	400	200	120	80	50
TA5215H	400	200	120	80	50
TA6307H	400	200	120	80	50
TA7315H	400	200	120	80	50
TA8407H	—	—	120	80	50
TA9415H	—	—	120	80	50
TA10507H	—	—	120	80	50
TA12608H	—	—	120	80	50

Thrust capacity for screw conveyor drives

Thrust capacity for screw conveyor drives (lb)

Case size	Output speed (rpm) Single-reduction reducers (5:1)						
	100	150	200	250	300	350	400
TA0107L	2,568	2,288	2,092	2,000	1,922	1,855	1,798
TA1107H	3,106	2,835	2,626	2,505	2,396	2,309	2,232
TA2115H	5,373	4,771	4,417	4,186	4,015	3,885	3,785
TA3203H	6,000	5,834	5,387	5,053	4,783	4,561	4,386
TA4207H	6,000	6,000	6,000	6,000	6,000	5,776	5,570
TA5215H	6,000	6,000	6,000	6,000	6,000	6,000	6,000
TA6307H	6,000	5,803	5,374	5,202	4,977	4,807	4,737
TA7315H	†	†	†	†	†	†	†

Thrust capacity for screw conveyor drives (lb)

Case size	Output speed (rpm) Double-reduction reducers (9:1 through 40:1)								
	10	25	50	75	100	125	150	175	200
TA0107L	5,300	4,028	3,141	2,730	2,465	2,281	2,165	2,071	1,989
TA1107H	6,000	4,833	3,705	3,196	2,865	2,639	2,568	2,438	2,315
TA2115H	6,000	6,000	6,000	5,323	4,850	4,550	4,295	4,086	3,924
TA3203H	6,000	6,000	6,000	6,000	5,761	5,328	5,020	4,813	4,636
TA4207H	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
TA5215H	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
TA6307H	6,000	6,000	6,000	5,885	5,185	4,706	4,435	4,303	4,269
TA7315H	†	†	†	†	†	†	†	†	†

† Consult Dodge Application Engineering at +1 864 284 5700

Lubrication



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



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

Lubrication is extremely important for satisfactory operation. The proper oil level and oil level plug location are shown on page G1-117 and must be maintained at all times. Approximate oil quantities are shown on page G1-119. Frequent inspections with the unit not running and allowing sufficient time for the oil to cool and the entrapped air to settle out of the oil should be made by removing the level plug to see that the level is being maintained. If low, add the proper type and viscosity of lubricant through one of the upper openings until it comes out of the oil level hole. Replace the oil level plug securely. Refer to Tables 1 and 2 for viscosity recommendations.

After an initial operation of about two weeks, the oil should be changed. If desired, this oil may be filtered and reused. Very often, small metal particles will show up in the oil due to the wearing process. After the initial break in period, the lubricant should be drained, magnetic drain plug cleaned, gear case flushed and refilled every 2,500 hours of operation under average industrial operating conditions.



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

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

- High operating temperatures resulting from heavy intermittent loads causes the temperature of the gear case to rise rapidly and then cool
- Unusual ambient conditions, which may tend to cause condensation on the inside of the gearcase thereby contaminating the oil
- Operating temperatures that would cause oil to approach 200 °F continually
- Subjection of reducer to unusual vapors or moist atmosphere
- Subjection of reducer to extremely dusty or dirty environment
- Under these extreme operating conditions, the oil should be changed every 1 to 3 months depending on severity of conditions

Operating temperatures

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

Lubrication

Table 1 - Oil recommendations

ISO grades for ambient temperatures of 50 °F to 125 °F

Output speed (rpm)	TA II reducer size											
	TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H	TA8407H	TA9415H	TA10507H	TA12608H
301—400	320	320	320	220	220	220	220	220	220	220	220	220
201—300	320	320	320	220	220	220	220	220	220	220	220	220
151—200	320	320	320	220	220	220	220	220	220	220	220	220
126—150	320	320	320	220	220	220	220	220	220	220	220	220
101—125	320	320	320	320	220	220	220	220	220	220	220	220
81—100	320	320	320	320	320	220	220	220	220	220	220	220
41—80	320	320	320	320	320	220	220	220	220	220	220	220
11—40	320	320	320	320	320	320	320	320	320	320	220	220
1—10	320	320	320	320	320	320	320	320	320	320	320	320

Table 2 - Oil recommendations

ISO grades for ambient temperatures of 15 °F to 60 °F

Output speed (rpm)	TA II reducer size											
	TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H	TA8407H	TA9415H	TA10507H	TA12608H
301—400	220	220	220	150	150	150	150	150	150	150	150	150
201—300	220	220	220	150	150	150	150	150	150	150	150	150
151—200	220	220	220	150	150	150	150	150	150	150	150	150
126—150	220	220	220	150	150	150	150	150	150	150	150	150
101—125	220	220	220	220	150	150	150	150	150	150	150	150
81—100	220	220	220	220	220	150	150	150	150	150	150	150
41—80	220	220	220	220	220	150	150	150	150	150	150	150
11—40	220	220	220	220	220	220	220	220	220	220	150	150
1—10	220	220	220	220	220	220	220	220	220	220	220	220

Notes:

(1) Assumes auxiliary cooling where recommended in the catalog.
(2) Pour point of lubricant selected should be at least 10 °F lower than expected minimum ambient starting temperature.
(3) EP lubricates are not necessary for average operating conditions. When properly selected for specific applications, TA II backstops are suitable for use with EP lubricants.
(4) Special lubricants may be required for food and drug industry applications where contact with the product being manufactured may occur. Consult a lubrication manufacturer's representative for his recommendations.
(5) For reducers operating in ambient temperatures between -22 °F (-30 °C) and 20 °F (-6.6 °C) use a synthetic hydrocarbon lubricant, 100 ISO grade or AGMA 3 grade (for example, Mobil SHC627). Above 125 °F (51 °C), consult Dodge Application Engineering +1 864 284 5700 for lubrication recommendation.
(6) Mobil SHC630 Series oil is recommended for high ambient temperatures.

Lubrication

Installation

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

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

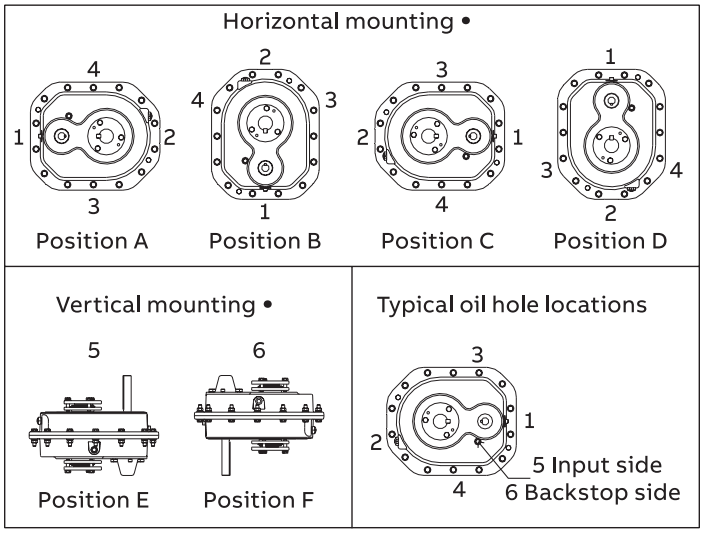
Mounting position - The running position of the reducer in the horizontal application is not limited to the four positions shown in Figure 1. However, if the running position is over 20 degrees off of position “B” or “D” or 5 degrees off of position “A” or “C”, either way from the sketches, the oil level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

Lubricant grade equivalents*

ISO	AGMA
150	4
220	5
320	6

* See page G1-120 for complete lubricant interchange chart

Figure 1



• Below 15 rpm output speed, oil level must be adjusted to reach the highest oil level plug. If reducer position is to vary from those shown in Figure 1, either more or less oil may be required. Consult Dodge Application Engineering at +1 864 284 5700.

Table 3 - Vent and plug locations

Mounting position	Output speed above 15 rpm						Output speed 15 rpm and below ●					
	Vent and plug locations						Vent and plug locations					
	1	2	3	4	5	6	1	2	3	4	5	6
Position A	Level	Plug	Drain	Vent	Plug	Sensor	Plug	Level	Drain	Vent	Plug	Sensor
Position B	Drain	Vent	Level	Plug	Plug	Sensor	Drain	Vent	Plug	Level	Plug	Sensor
Position C	Plug	Level	Vent	Drain	Plug	Sensor	Level	Plug	Vent	Drain	Plug	Sensor
Position D	Vent	Drain	Level	Plug	Plug	Sensor	Vent	Drain	Level	Plug	Plug	Sensor
Position E	Level	* Plug	Plug	Drain	Vent	Sensor	Level	* Plug	Plug	Drain	Vent	Sensor
Position F	Plug	Drain	Level	* Plug	Sensor	Vent	Plug	Drain	Level	* Plug	Sensor	Vent

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

● Below 15 rpm output speed, oil level must be adjusted to reach the highest oil level plug. If reducer position is to vary from those shown in Figure 1, either more or less oil may be required. Consult Dodge Application Engineering at +1 864 284 5700.

Lubrication

Recommended lubricants for MTA, TA II, and TXT reducers

	Standard oils		EP oils	
EXXON				
150	Teresstic	150	Spartan EP	150
220	Teresstic	220	Spartan EP	220
320	Teresstic	320	Spartan EP	320
CHEVRON				
150	Machine	150	Gear Compound EP	150
220	Machine	220	Gear Compound EP	220
320	Machine	320	Gear Compound EP	320
PHILLIPS 66				
150	Multipurpose R&O Oil	150	Extra Duty HL Gear Lube	141
220	Multipurpose R&O Oil	220	Extra Duty HL Gear Lube	207
320	Multipurpose R&O Oil	320	Extra Duty HL Gear Lube	300
KLUBER SYNTHETIC				
150	GEM4	150N	—	—
220	GEM4	220N	—	—
320	GEM4	320N	—	—
KLUBER				
150	GEM1	150N	—	—
220	GEM1	220N	—	—
320	GEM1	320N	—	—
MOBIL SYNTHETIC				
150	SHC	629	SHC Gear	150
220	SHC	630	SHC Gear	220
320	SHC	632	SHC Gear	320
MOBIL				
150	Mobil DTE	Extra Heavy	MobilGear 600 XP	150
220	Mobil DTE	BB	MobilGear 600 XP	220
320	Mobil DTE	AA	MobilGear 600 XP	320
TEXACO				
150	Regal Oil Rand O	150	Meropa	150
220	Regal Oil Rand O	220	Meropa	220
320	Regal Oil R and O	320	Meropa	320
SHELL SYNTHETIC				
150	Morlina S4 B	150	—	—
220	Morlina S4 B	220	—	—
320	Morlina S4 B	320	—	—
SHELL				
150	Morlina Oil S2 B and S3 B	150	Omala S2 G	150
220	Morlina Oil S2 B and S3 B	220	Omala S2 G	220
320	Morlina Oil S2 B and S3 B	320	Omala S2 G	320

For further lubrication information, refer to TA lubrication manual MN1682 or individual product manuals.
+ Partial list. Consult Dodge Application Engineering at +1 864 284 5700, or a lubricant manufacturer's website, for additional options and updated oil nomenclature.

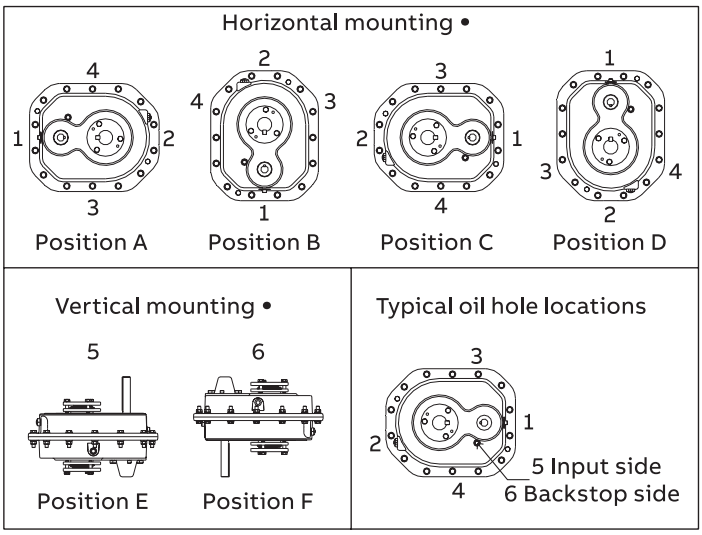
Lubrication

Table 4 - Oil volumes

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

■ Oil quantity is approximate. Service with lubricant until oil runs out of oil level hole.
† Refer to Figure 1 for mounting positions
▲ US measure: 1 quart = 32 fluid ounces = 0.94646 liters
● Below 15 rpm output speed, oil level must be adjusted to reach the highest oil level plug. If reducer position is to vary from those shown in Figure 1, either more or less oil may be required. Consult Dodge Application Engineering at +1 864 284 5700.

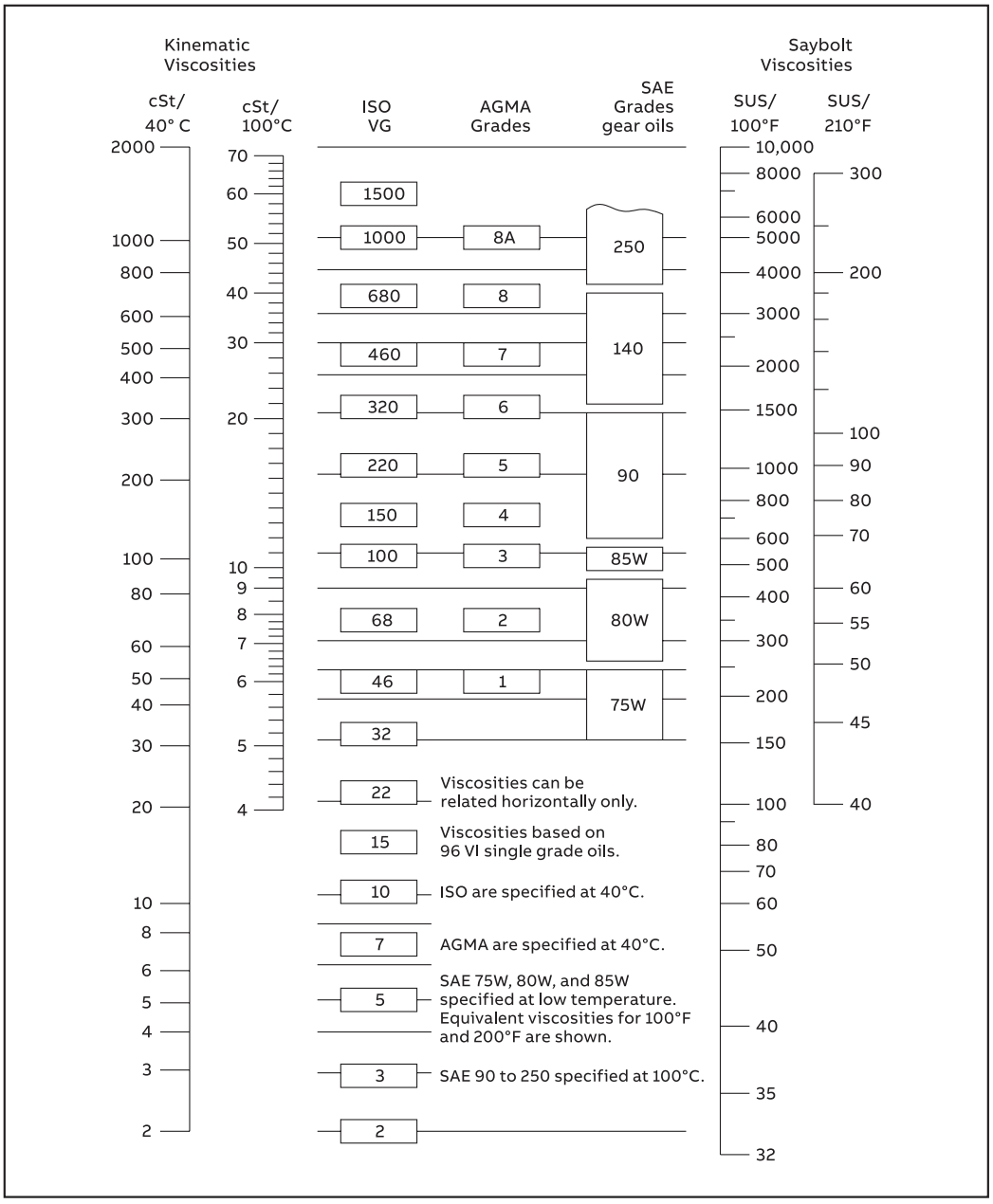
Figure 1



• Below 15 rpm output speed, oil level must be adjusted to reach the highest oil level plug. If reducer position is to vary from those shown in Figure 1, either more or less oil may be required. Consult Dodge Application Engineering at +1 864 284 5700.

Viscosity classification equivalents

Oil viscosity equivalency chart



ISO viscosity classification system

All industrial oils are graded according to the ISO Viscosity Classification System, approved by the International Standards Organizations (ISO). Each ISO viscosity grade number corresponds to the mid-point of viscosity range expressed in centistokes (cSt) at 40°C. For example, a lubricant with an ISO grade of 32 has a viscosity within the range of 28.80—35.2, the midpoint of which is 32.

Rule of thumb

The comparable ISO grade of a competitive product whose viscosity in SUS at 100 °F is known can be determined by using the following conversion formula:

SUS @ 100 °F ÷ 5 = cSt @ 40 °C

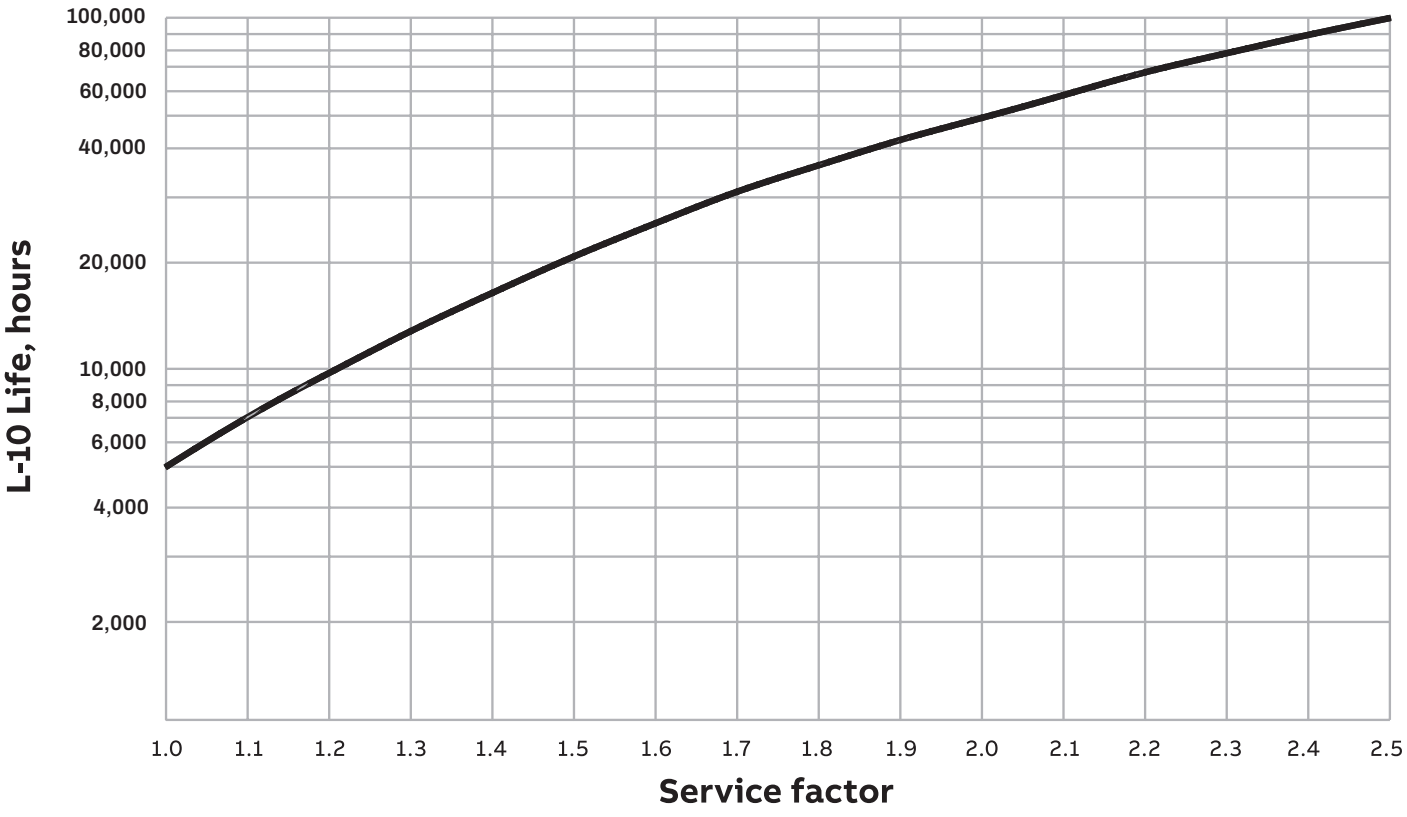
Bearing L_{10} life as a function of service factor

AGMA Standard 6009-A00

TA II reducers are designed to provide a minimum L_{10} bearing life of 5,000 hours for the most severe operating conditions. Since the probability of all maximum load conditions occurring in an application is low, the actual L_{10} life of an application is much greater.

Remember, the L_{50} average life would be approximately 25,000 hours.

The graph illustrates how bearing life varies with different service factors. For example, a TA II TA3203H reducer with a 2.0 service factor has over 50,000 hours L_{10} life.



1.0 Service factor = 5,000 hours L_{10} bearing life, 25,000 L_{50} hours

1.4 Service factor = 15,300 hours L_{10} bearing life, 76,500 L_{50} hours

2.0 Service factor = 50,300 hours L_{10} bearing life, 251,500 L_{50} hours

Note: Average bearing life (L_{50}) is typically 5 times L_{10} bearing life

Guidelines for long-term storage

During periods of long storage (3 months or more), or when awaiting delivery or installation of other equipment, special care should be taken to protect a gear reducer to have it in the best condition when placed into service.

By taking special precautions, problems such as seal leakage and reducer failure due to the lack of lubrication, improper lubrication quantity, or contamination can be avoided. The following precautions will protect gear reducers during periods of extended storage.

Preparation

1. Drain the oil from the unit. Add a vapor phase corrosion inhibiting oil such as Nox-Rust 1100 oil by Daubert Chemical Co.
2. Seal the unit air tight. Replace the vent plug with standard pipe plug and wire the vent to the unit.
3. Cover the shaft extension with a waxy rust preventive compound that will keep oxygen away from the bare metal such as Non-Rust X-110 by Daubert Chemical Co.
4. The instruction manuals and lubrication tags are paper and must be kept dry. Either remove these documents and store them inside or cover the unit with a durable waterproof cover which can keep moisture away.
5. Protect the reducer from dust, moisture, and other contaminants by storing the unit in a dry area.
6. In damp environments, the reducer should be packed inside a moisture-proof container or an envelope of plastic containing a desiccant material. If the reducer is to be stored outdoors, cover the entire exterior with a rust preventive.
7. Once a month rotate the input shaft at least 30 revolutions to redistribute the weight of gears and shafts and to prevent brinnelling of the bearings and drying of the seal track.

When placing the reducer into service

1. Assemble the vent plug into the proper hole.
2. Clean the shaft extensions with petroleum solvents.
3. Fill the unit to the proper oil level using a recommended lubricant. The Nox-Rust oil will not affect the new lubricant.
4. Follow the installation instructions provided with the unit.

Nox-Rust 1100 oil for TA II reducers

Family	Size	Nox-Rust quantity (Ounces)	Nox-Rust quantity (Milliliters)
TAII	0	1	30
TAII	1	1	30
TAII	2	1	30
TAII	3	1	30
TAII	4	1	30
TAII	5	2	59
TAII	6	2	59
TAII	7	3	89
TAII	8	4	118
TAII	9	6	177
TAII	10	8	237
TAII	12	12	355

Breather technology



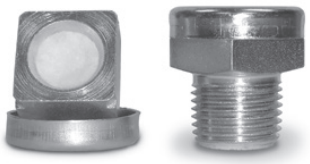
Hydra-Lock desiccant breather

- Built-in standpipe
- Three 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 and remains closed when it is not running



OPTIFY™ Breather

- Proprietary, detachable sensor module for connection with the OPTIFY platform for remote condition monitoring
- Silica gel beads eliminate moisture contamination, providing a higher capacity and longer life than standard desiccant media
- Polyester filter elements reduce airborne solid particle contamination to a three-micron absolute
- Naturally aspirated with no fixed volume, preventing the build-up of pressure for increased seal effectiveness



Standard 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)



Fully-enclosed canister breather

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

Accessories
TA II



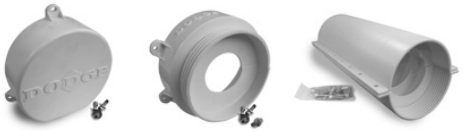
Standard twin-tapered bushing system

The twin-tapered bushing system is an easy on, easy off, no-wobble bushing system featuring a fully split, ductile iron eight degree taper, and reliable twin support. TA II and MTA gear reducers feature bore sizes larger than the standard AGMA specification for their case size, enabling reducer downsizing without requiring a shaft turndown.



Short-shaft twin-tapered bushing kits

Eliminate the need for full-length shafts. Constructed with ductile iron, it has all the features of our standard bushing system. Available in both inch and metric bores. The patented, insertable tapered wedge enables the optional extended tapered bushing kit to be applied for shorter shaft lengths, allowing the replacement of straight bore reducers.



Bushing covers

Provide protection from the spinning bushing bolts and offer an added layer of contamination protection. MTA is drilled and tapped for the heavy-duty ABS covers.



Backstop

The backstop option helps prevent reverse rotation in high stop-start loads, and results in less wear for longer life. Its centrifugal sprag design operates with standard and EP lubricants and requires no external lubrication. MTA reducers require a larger backstop than equivalent TA II.



Torque arm Tie rod kit

Ruggedly constructed, the tie rod kit includes standard brackets and offers universal mounting options.



Screw conveyor adapter

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. An optional adjustable packing kit bolts to the standard adapter and provides a proven sealing option for hostile environments. Packing can be retightened.



Driveshafts

The screw conveyor driveshafts are made from high alloy steel and engineered to CEMA dimensions. They are three-bolt drilled and their tapered fit ensures simple installation. The rugged locking plate also provides a mechanical shaft removal feature. #316 stainless-steel driveshafts are also available.

Harsh-duty accessories

Thin dense nickel chrome (TDNC) coated tapered bushing for harsh-duty environments

Reducer size and description	Part number	Weight (lb)
TA0107TB X 1-7/16 TAPER BUSH KIT TDNC	900020TDNC	2.7
TA0107TB X 1-3/16 TAPER BUSH KIT TDNC	900024TDNC	2.8
TA1107TB X 1-7/16 TAPER BUSH KIT TDNC	901021TDNC	3.8
TA2115TB X 2-3/16 TAPER BUSH KIT TDNC	902020TDNC	4.8
TA2115TB X 1-15/16 TPR BUSH KIT TDNC	902023TDNC	5.7
TA3203TB X 2-3/8 TAPER BUSH KIT TDNC	903020TDNC	6.5
TA3203TB X 2-3/16 TAPER BUSH KIT TDNC	903022TDNC	2.1
TA4207TB X 2-11/16 TPR BUSH KIT TDNC	904020TDNC	9.7
TA4207TB X 2-7/16 TAPER BUSH KIT TDNC	904022TDNC	11.0
TA4207TBS X 2-7/16 TPR BUSH KIT TDNC	904032TDNC	11.3
TA5215TB X 3-3/16 TPR BUSH KIT TDNC	905020TDNC	13.7
TA5215TB X 2-15/16 TPR BUSH KIT TDNC	905022TDNC	16.0
TA6307TB X 3-7/16 TAPER BUSH KIT TDNC	906020TDNC	16.9
TA7315TB X 4-7/16 TAPER BUSH KIT TDNC	907019TDNC	20.5
TA7315TB X 3-15/16 TPR BUSH KIT TDNC	907022TDNC	26.3
TA8407TB X 4-7/16 TAPER BUSH KIT TDNC	908020TDNC	26.0
TA8407TB X 3-15/16 TAPER BUSH KIT TDNC	908022TDNC	32.4
TA9415TB X 4-15/16 TPR BUSH KIT TDNC	909020TDNC	39.2
TA9415TB X 4-7/16 TAPER BUSH KIT TDNC	909021TDNC	43.4
TA10507TB X 6 TPR BUSH KIT TDNC	910020TDNC	41.6
TA10507TB X 5-7/16 TPR BUSH KIT TDNC	910022TDNC	50.0
TA12608TB X 7 TPR BUSH KIT TDNC	912020TDNC	58.2
TA12608TB X 6-1/2 TPR BUSH KIT TDNC	912021TDNC	67.8



TDNC coated tapered bushings

- TDNC coated for maximum corrosion resistance with minimum premium cost adder
- TDNC bushings come with backing plates, snap rings, zinc bolts, and washers
- AGMA bore size and max bore size (if larger) are currently set up for standard bushing style only

Optional V-ring flinger seal kit for harsh-duty environments

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

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



V-ring kit

Harsh-duty accessories

Hydra-Lock breather system

Reducer Size	SIze	Part number
TA0107—TA3203	HL-0	964372
TA4207—TA9415	HL-1	964364
TA10507—TA12608	HL-2	964366



Hydra-Lock breathers

Enclosed chamber breather

Reducer Size	Part number
TA0—TA8	240050
TA9—TA12	240051



Enclosed chamber breather

Oil sump immersion heaters

Reducer Size	Part number
TA0—TA3	Not available
TA4	241103 (with reducer factory modification)
TA5—TA6	241103
TA7—TA9	241105
TA10—TA12	241105 (with reducer factory modification)

110 volt, single phase, AC cartridge heater threads into a special tapped housing hole. Oil sump heaters for gearboxes operate on a simple time-phased on/off cycle without thermostat control. This provides approximately a 70 °F temperature rise within one hour in cold climates.
TA II reducers require factory modification prior to sump heater installation. Required modifications are determined by reducer mounting position. Consult Dodge Application Engineering at +1 864-284-5700.



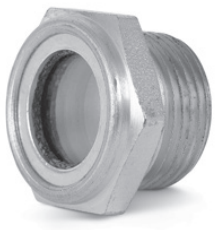
Oil sump heater

Oil sight glasses

Reducer size	Size (in)	Part number
TA0—TA3	3/8	430120
TA4—TA12	3/4	430159

Oil sight tubes

Reducer size	Size (in)	Part number
TA0—TA3	3/8	900110
TA4—TA12	3/4	904110



Oil sight glasses



Oil sight tubes

Bushing and shaft guards

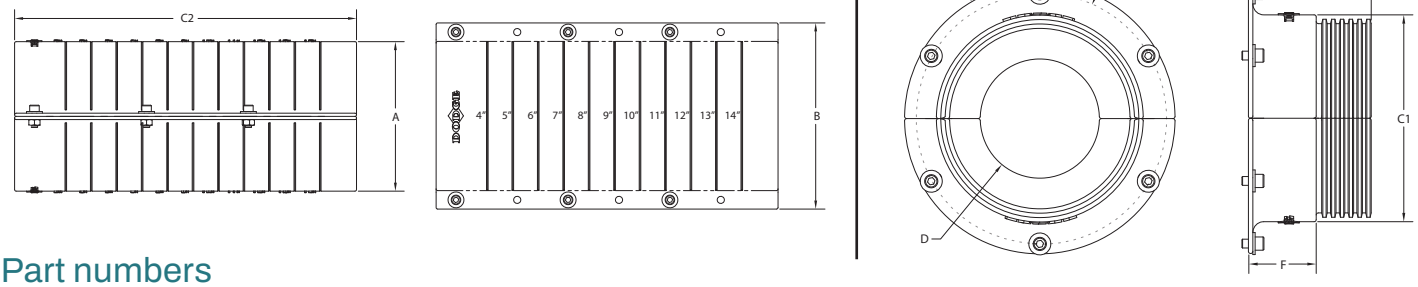
Dimensions

Shaft guard

Size	Part number	A	B	C2	D	C2 + F
		Ext. OD	Ext. width	Ext. length	Barrier ID	Assembly length
0	020568	3.68	5.32	7.19	1.84	8.81
1	020569	4.13	5.82	7.50	2.13	9.22
2	020570	4.75	6.44	10.94	2.91	12.82
3	020571	5.25	6.94	11.88	3.01	13.77
4	020572	5.88	7.57	13.44	3.38	15.37
5	020573	6.75	8.69	15.94	3.90	18.24
6	020574	6.88	8.82	17.19	4.34	19.52
7	020575	8.13	10.07	22.19	5.03	24.76
8	020576	8.38	10.32	22.19	5.03	24.76
9	020577	9.63	11.57	24.69	5.87	27.53
10	020578	10.63	12.95	30.00	6.84	32.88
12	020579	11.88	14.20	35.00	7.79	37.91

Adapter

Size	Part number	A	B		C1	D	E	F
		Flange OD	Number of holes	Bolt pattern	Adapter OD	Barrier ID	Overall length	Unthreaded length
0	020544	4.94	4	4.38	3.63	1.84	2.94	1.62
1	020545	5.44	4	4.88	4.13	2.13	3.04	1.72
2	020546	6.31	6	5.75	4.75	2.91	3.19	1.88
3	020547	6.94	6	6.38	5.25	3.01	3.20	1.89
4	020548	7.68	6	7.12	5.88	3.38	3.49	1.93
5	020549	8.81	6	8.25	6.75	3.90	4.36	2.30
6	020550	8.81	6	8.25	6.88	4.34	4.39	2.33
7	020551	10.31	6	9.75	8.13	5.03	4.88	2.57
8	020552	10.56	6	10.00	8.38	5.03	4.88	2.57
9	020553	10.94	6	10.38	9.63	5.87	5.40	2.84
10	020554	12.06	6	11.50	10.63	6.84	5.44	2.88
12	020555	13.44	6	12.88	11.88	7.79	5.47	2.91



Part numbers

Shaft guard kits (1)

Reducer size	Part number	Description	Weight (lb)
TA0107	TAShaftGuard-00	TA0107 shaft guard	5
TA1107	TAShaftGuard-01	TA0107 shaft guard	5
TA2115	TAShaftGuard-02	TA2115 shaft guard	7
TA3203	TAShaftGuard-03	TA3203 shaft guard	7
TA4207	TAShaftGuard-04	TA4207 shaft guard	7
TA5215	TAShaftGuard-05	TA5215 shaft guard	7
TA6307	TAShaftGuard-06	TA6307 shaft guard	9
TA7315	TAShaftGuard-07	TA7315 shaft guard	9
TA8407	TAShaftGuard-08	TA8407 shaft guard	11
TA9415	TAShaftGuard-09	TA9415 shaft guard	11
TA10507	TAShaftGuard-10	TA10507 shaft guard	13
TA12608	TAShaftGuard-12	TA12608 shaft guard	13

(1) Kits include adapter and extension specific to that size.

Closed bushing covers

Reducer size	Part number	Description	Weight (lb)
TA0107	900142	TA0107 closed cover	2
TA1107	901142	TA0107 closed cover	2
TA2115	902142	TA2115 closed cover	3
TA3203	903142	TA3203 closed cover	3
TA4207	904142	TA4207 closed cover	3
TA5215	905142	TA5215 closed cover	4
TA6307	906142	TA6307 closed cover	4
TA7315	907142	TA7315 closed cover	4
TA8407	908142	TA8407 closed cover	5
TA9415	909142	TA9415 closed cover	5
TA10507	910142	TA10507 closed cover	6
TA12608	912142	TA12608 closed cover	6

Individual shaft guard kits (2)

Reducer size	Part number	Description	Weight (lb)
TA0107	020544	TA0107 guard adapter	2
TA0107	020568	TA0107 guard extension	3
TA1107	020545	TA1107 guard adapter	2
TA1107	020569	TA1107 guard extension	3
TA2115	020546	TA2115 guard adapter	3
TA2115	020570	TA2115 guard extension	4
TA3203	020547	TA3203 guard adapter	3
TA3203	020571	TA3203 guard extension	4
TA4207	020548	TA4207 guard adapter	3
TA4207	020572	TA4207 guard extension	4
TA5215	020549	TA5215 guard adapter	3
TA5215	020573	TA5215 guard extension	4
TA6307	020550	TA6307 guard adapter	4
TA6307	020574	TA6307 guard extension	5
TA7315	020551	TA7315 guard adapter	4
TA7315	020575	TA7315 guard extension	5
TA8407	020552	TA8407 guard adapter	5
TA8407	020576	TA8407 guard extension	6
TA9415	020553	TA9415 guard adapter	5
TA9415	020577	TA9415 guard extension	6
TA10507	020554	TA10507 guard adapter	6
TA10507	020578	TA10507 guard extension	7
TA12608	020555	TA12608 guard adapter	6
TA12608	020579	TA12608 guard extension	7

(2) To guard entire shaft, one adapter and one extension are required.

Reliability kits

For gearboxes operating under extreme conditions, reliability kits enhance durability and longevity—ensuring consistent performance and maximum uptime for critical equipment while reducing maintenance needs. Additionally, reliability kits allow for remote oil level checks of a running gearbox, contributing to a safer working environment.

TA II reliability kits create a semi-closed-loop system that eliminates the introduction of unfiltered outside air or contaminants.

Reliability kits contain components to install in the most common configuration (noted below). Installation is possible in a different configuration, but may require different fittings that are available at any local hardware supplier.

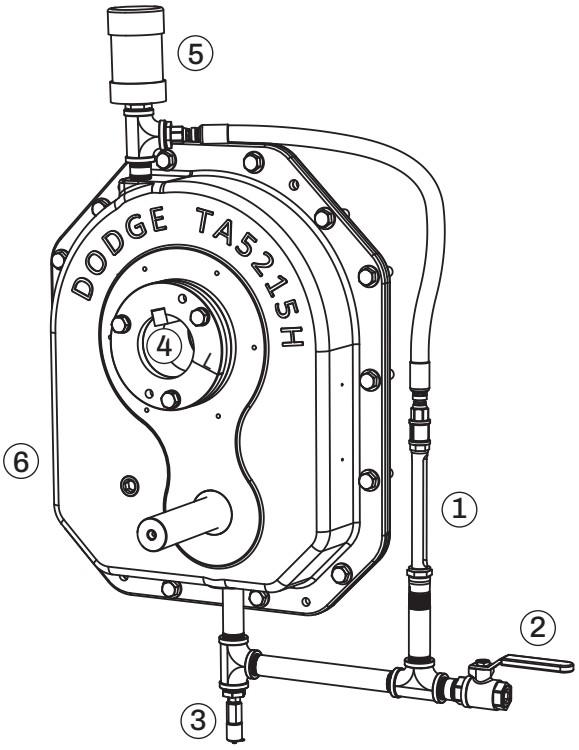
Reliability kits are used where users demand maximum uptime from critical equipment. A kit includes:

1. Large, vented oil sight tube with custom-length, closed-loop piping
2. Quick drain valve
3. Quick oil sampling port
4. ABS bushing split cover for the backside
5. Harsh-duty, fully enclosed breather with sight gauge

When application reliability is critical to maximizing operation uptime, you can utilize condition monitoring technology:

6. Sensor-ready port (OPTIFY Performance Sensor sold separately, part number 820000)

This allows for trend monitoring of critical data from the reducer, and its data can be read from a mobile device or computer to be easily integrated into plant-wide preventive maintenance programs.



TA II (position B)

Gearbox description	Hydra-Lock breather option	OPTIFY Breather option
TA4207	TA4RELKIT	TA4RELKIT-OB
TA5215	TA5RELKIT	TA5RELKIT-OB
TA6307	TA6RELKIT	TA6RELKIT-OB
TA7315	TA7RELKIT	TA7RELKIT-OB
TA8407	TA8RELKIT	TA8RELKIT-OB
TA9415	TA9RELKIT	TA9RELKIT-OB
TA10507	TA10RELKIT	TA10RELKIT-OB
TA12607	TA12RELKIT	TA12RELKIT-OB

A reliability kit is used when users demand maximum uptime from critical equipment. It allows you to check the oil level from a distance, contributing to a safer environment by eliminating the need to approach running equipment. Add to that, the complete protection from spinning bushing bolts, and you have a winner for longevity and safety.

Cooling fan TA4207H—TA12608H

Dimensions

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

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

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

Note: See page G1-113 for maximum input shaft speeds.

Figure 1—Cooling fan assembly

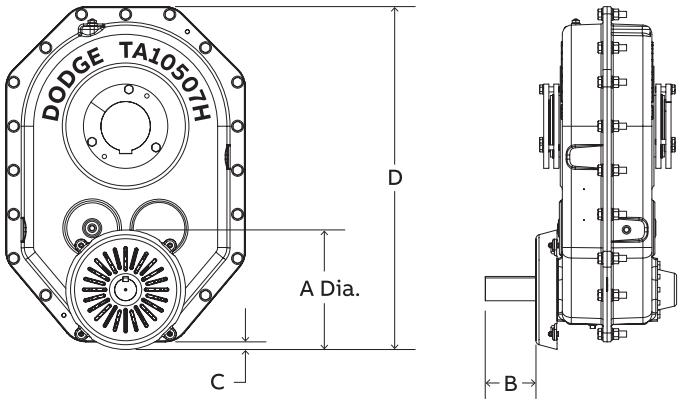


Table 1 - Cooling fan installation dimensions

Reducer	Part number	A Dia.	B	C	D
TA4207H	904106	9.00	3.77	—	—
TA5215H	905106	10.75	4.63	—	—
TA6307H	906106	11.85	4.00	0.14	25.37
TA7315H	907106	11.85	4.10	—	—
TA8407H	907106	11.85	4.79	—	—
TA9415H	909106	14.55	5.98	—	—
TA10507H	910106	14.55	6.16	0.93	41.72
TA12608H	912106	14.55	6.16	0.25	43.98

Reducer pump and auxiliary cooling package

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

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

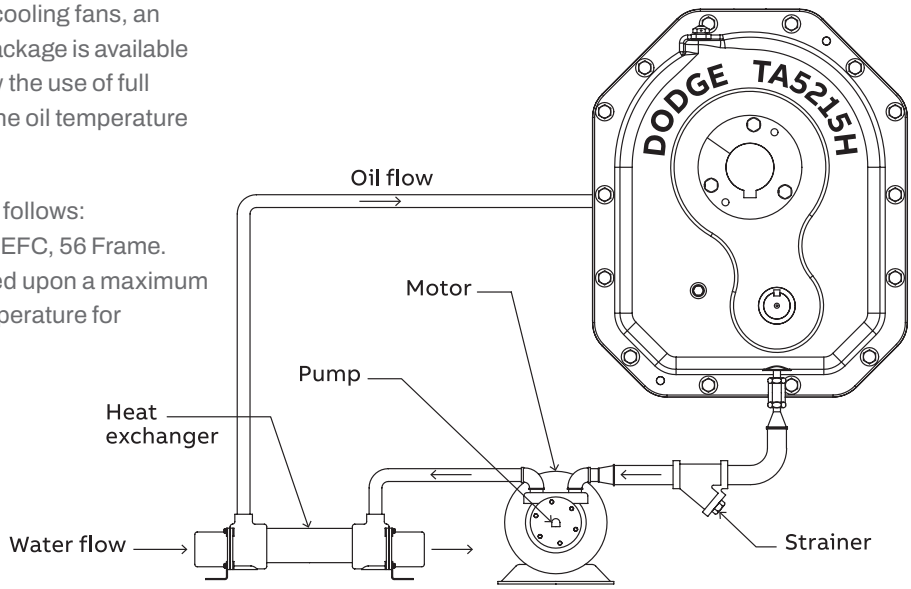


Figure 2—Pump and auxiliary cooling package —Part number 273933

Maximum bore straight bore (1) (2) (3)

Shaft-mount speed reducers

Reducer Size	Max. Bore (in)	TA II Reducer									
		5:1		9:1		15:1		25:1		31:1 - 40:1	
		Part number	Weight	Part number	Weight	Part number	Weight	Part number	Weight	Part number	Weight
TA1107H	1-11/16	901149	56.6	901148	58.0	901147	57.9	901146	57.9	901145	58.0
TA3203H	2-7/16	903149	109.2	903148	113.3	903147	113.1	903146	112.8	903145	112.0
TA4207H	2-15/16	904149	182.0	904148	190.7	904147	190.3	904146	189.6	904145	189.0
TA5215H	3-7/16	905149	262.4	905148	277.0	905147	276.5	905146	275.5	905145	274.7
TA6307H	3-15/16	906149	316.0	906148	334.0	906147	333.0	906146	331.0	906145	330.0

(1) See individual reducer catalog pages for accessories for above reducers
(2) Non-stock, made-to-order reducers
(3) See Drawing B and Table 4 for catalog dimensions for Maximum Bore Straight Bore TA II Reducers
Non-stock, custom order only

Drawing B - Maximum bore straight bore reducers

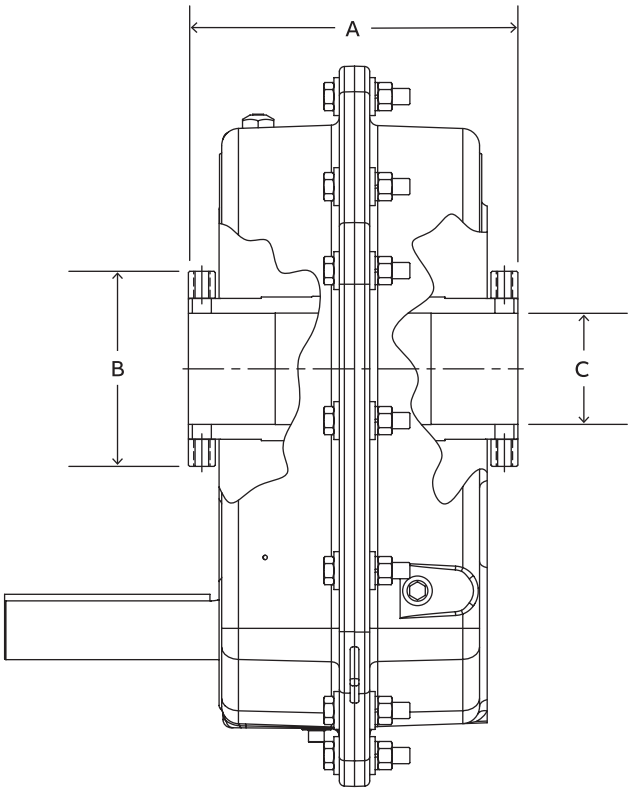


Table 4 (4)

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

(4) Always check the driven shaft and key for strength
(5) Minimum keyset and shaft length required to mount reducer

Nominal sheave speed (rpm)

Input for Dodge reducers – 1750 motor

5:1		9:1		15:1		25:1		31:1, 32:1 and 33:1		40:1	
Reducer output speed	Nominal input speed	Reducer output speed	Nominal input speed	Reducer output speed	Nominal input speed	Reducer output speed	Nominal input speed	Reducer output speed	Nominal input speed	Reducer output speed	Nominal input speed
400	2,000	200	1,800	120	1,800	80	2,000	50	1,600	50	2,000
395	1,975	198	1,782	118	1,770	78	1,950	48	1,536	48	1,920
390	1,950	196	1,764	116	1,740	76	1,900	46	1,472	46	1,840
385	1,925	194	1,746	114	1,710	74	1,850	44	1,408	44	1,760
380	1,900	192	1,728	112	1,680	72	1,800	42	1,344	42	1,680
375	1,875	190	1,710	110	1,650	70	1,750	40	1,280	40	1,600
370	1,850	188	1,692	108	1,620	68	1,700	38	1,216	38	1,520
365	1,825	186	1,674	106	1,590	66	1,650	36	1,152	36	1,440
360	1,800	184	1,656	104	1,560	64	1,600	34	1,088	34	1,360
355	1,775	182	1,638	102	1,530	62	1,550	32	1,024	32	1,280
350	1,750	180	1,620	100	1,500	60	1,500	30	960	30	1,200
345	1,725	178	1,602	98	1,470	58	1,450	28	896	28	1,120
340	1,700	176	1,584	96	1,440	56	1,400	26	832	26	1,040
335	1,675	174	1,566	94	1,410	54	1,350	24	768	24	960
330	1,650	172	1,548	92	1,380	52	1,300	22	704	22	880
325	1,625	170	1,530	90	1,350	50	1,250	20	640	20	800
320	1,600	168	1,512	88	1,320	48	1,200	18	576	18	720
315	1,575	166	1,494	86	1,290	46	1,150	16	512	16	640
310	1,550	164	1,476	84	1,260	44	1,100	14	448	14	560
305	1,525	162	1,458	82	1,230	42	1,050	12	384	12	480
300	1,500	160	1,440	80	1,200	40	1,000	10	320	10	400
295	1,475	158	1,422	78	1,170	38	950	8	256	8	320
290	1,450	156	1,404	76	1,140	36	900	6	192	6	240
285	1,425	154	1,386	74	1,110	34	850	—	—	—	—
280	1,400	152	1,368	72	1,080	32	800	—	—	—	—
275	1,375	150	1,350	70	1,050	30	750	—	—	—	—
270	1,350	148	1,332	68	1,020	28	700	—	—	—	—
265	1,325	146	1,314	66	990	26	650	—	—	—	—
260	1,300	144	1,296	64	960	24	600	—	—	—	—
255	1,275	142	1,278	62	930	22	550	—	—	—	—
250	1,250	140	1,260	60	900	20	500	—	—	—	—
245	1,225	138	1,242	58	870	18	450	—	—	—	—
240	1,200	136	1,224	56	840	16	400	—	—	—	—
235	1,175	134	1,206	54	810	14	350	—	—	—	—
230	1,150	132	1,188	52	780	12	300	—	—	—	—
225	1,125	130	1,170	50	750	10	250	—	—	—	—
220	1,100	128	1,152	48	720	8	200	—	—	—	—
215	1,075	126	1,134	46	690	6	150	—	—	—	—
210	1,050	124	1,116	44	660	—	—	—	—	—	—
205	1,025	122	1,098	42	630	—	—	—	—	—	—
200	1,000	120	1,080	40	600	—	—	—	—	—	—
195	975	118	1,062	38	570	—	—	—	—	—	—
190	950	116	1,044	36	540	—	—	—	—	—	—
185	925	114	1,026	34	510	—	—	—	—	—	—
180	900	112	1,008	32	480	—	—	—	—	—	—
175	875	110	990	30	450	—	—	—	—	—	—
170	850	108	972	28	420	—	—	—	—	—	—
165	825	106	954	26	390	—	—	—	—	—	—
160	800	104	936	24	360	—	—	—	—	—	—
155	775	102	918	22	330	—	—	—	—	—	—
150	750	100	900	20	300	—	—	—	—	—	—
145	725	—	—	18	270	—	—	—	—	—	—
140	700	—	—	16	240	—	—	—	—	—	—
135	675	—	—	14	210	—	—	—	—	—	—
130	650	—	—	12	180	—	—	—	—	—	—
125	625	—	—	10	150	—	—	—	—	—	—
120	600	—	—	—	—	—	—	—	—	—	—
115	575	—	—	—	—	—	—	—	—	—	—
110	550	—	—	—	—	—	—	—	—	—	—
105	525	—	—	—	—	—	—	—	—	—	—
100	500	—	—	—	—	—	—	—	—	—	—

Renewal parts

TA II

TA II bearing kits (1)

Size	Ratio	Kit part number	Size	Ratio	Kit part number
TA0107L	5:1	900128	TA6307H	5:1	906128
TA0107L	9:1 - 31:1	900129	TA6307H	9:1 - 15:1	906129
TA1107H	5:1	901128	TA6307H	25:1 - 40:1	906130
TA1107H	9:1 - 31:1	901129	TA7315H	5:1	907128
TA1107H	25:1 - 40:1	901130	TA7315H	9:1 - 25:1	907129
TA2115H	5:1	902128	TA7315H	40:1	907130
TA2115H	9:1 - 25:1	902129	TA8407H	15:1 - 25:1	908129
TA2115H	33:1	902130	TA8407H	40:1	908130
TA3203H	5:1	903128	TA9415H	15:1 - 25:1	909129
TA3203H	9:1 - 25:1	903129	TA9415H	40:1	909130
TA3203H	32:1	903130	TA10507H	15:1 - 25:1	910129
TA4207H	5:1	904128	TA10507H	40:1	910130
TA4207H	9:1 - 25:1	904129	TA12608H	15:1 - 25:1	912129
TA4207H	40:1	904130	TA12608H	40:1	912130
TA5215H	5:1	905128	—	—	—
TA5215H	9:1 - 15:1	905129	—	—	—
TA5215H	25:1	905130	—	—	—
TA5215H	40:1	905131	—	—	—

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

TA II seal kits (2)

Size	Ratio	Kit part number
TA0107L	All	900126
TA1107H	All	901126
TA2115H	5:1 - 25:1	902126
TA2115H	33:1	902127
TA3203H	5:1-25:1	903126
TA3203H	32:1	903127
TA4207H	All	904126
TA5215H	All	905126
TA6307H	All	906126
TA7315H	All	907126
TA8407H	All	908126
TA9415H	All	909126
TA10507	All	910126
TA12608	All	912126

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

TA II level 1 rebuild kits (3)

Size	Ratio	Kit part number	Size	Ratio	Kit part number
TA0107L	5:1	900135	TA6307H	5:1	906135
TA0107L	9:1 - 31:1	900136	TA6307H	9:1 - 15:1	906136
TA1107H	5:1	901135	TA6307H	25:1 - 40:1	906137
TA1107H	9:1 - 15:1	901136	TA7315H	5:1	907135
TA1107H	25:1 - 31:1	901137	TA7315H	9:1 - 25:1	907136
TA2115H	5:1	902135	TA7315H	40:1	907137
TA2115H	9:1 - 25:1	902136	TA8407H	15:1 - 25:1	908136
TA2115H	33:1	902137	TA8407H	40:1	908137
TA3203H	5:1	903135	TA9415H	15:1 - 25:1	909136
TA3203H	9:1 - 25:1	903136	TA9415H	40:1	909137
TA3203H	32:1	903137	TA10507H	15:1 - 25:1	910136
TA4207H	5:1	904135	TA10507H	40:1	910137
TA4207H	9:1 - 25:1	904136	TA12608H	15:1 - 25:1	912136
TA4207H	40:1	904137	TA12608H	40:1	912137
TA5215H	5:1	905135	—	—	—
TA5215H	9:1 - 15:1	905136	—	—	—
TA5215H	25:1	905137	—	—	—
TA5215H	40:1	905138	—	—	—

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

TA II complete shim kits (4)

Size	Kit part number
TA0107L	900180
TA1107H	901180
TA2115H	902180
TA3203H	903180
TA4207H	904180
TA5215H	905180
TA6307H	906180
TA7315H	907180
TA8407H	908180
TA9415H	909180
TA10507H	910180
TA12608H	912180

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

Renewal parts

TA II



Lubricant

It is important that a rebuilt reducer be refilled with fresh lubricant of the proper viscosity group.

To make this an easy selection we have prepackaged the required volume of factory standard lubricant which may be ordered along with the rebuild kit. See accessory table for kit part numbers.

TA II lube kits (5)

Size	Kit part number
TA0107L	LUBEKITTA0107
TA1107H	LUBEKITTA1107
TA2115H	LUBEKITTA2115
TA3203H	LUBEKITTA3203
TA4207H	LUBEKITTA4207
TA5215H	LUBEKITTA5215
TA6307H	LUBEKITTA6307
TA7315H	LUBEKITTA7315
TA8407H	LUBEKITTA8407
TA9415H	LUBEKITTA9415
TA10507H	LUBEKITTA10507
TA12608H	LUBEKITTA12608

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

TA II level 2 rebuild kits (6)

Size	Ratio	Kit part number
TA0107L	5:1	9001355
	9:1	9001369
	15:1	90013615
	25:1	90013625
	31:1	90013640
TA1107H	5:1	9011355
	9:1	9011369
	15:1	90113615
	25:1	90113725
	31:1	90113740
TA2115H	5:1	9021355
	9:1	9021369
	15:1	90213615
	25:1	90213625
	33:1	90213740
TA3203H	5:1	9031355
	9:1	9031369
	15:1	90313615
	25:1	90313625
	32:1	90313740
TA4207H	5:1	9041355
	9:1	9041369
	15:1	90413615
	25:1	90413625
	40:1	90413740
TA5215H	5:1	9051355
	9:1	9051369
	15:1	90513615
	25:1	90513725
	40:1	90513840
TA6307H	5:1	9061355
	9:1	9061369
	15:1	90613615
	25:1	90613725
	40:1	90613740
TA7315H	5:1	9071355
	9:1	9071369
	15:1	90713615
	25:1	90713625
	40:1	90713740
TA8407H	15:1	90813615
	25:1	90813625
	40:1	90814740
TA9415H	15:1	90913615
	25:1	90913625
	40:1	90913740
TA10507H	15:1	91013615
	25:1	91013625
	40:1	91013740
TA12608H	15:1	91213615
	25:1	91213625
	40:1	91213740

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

Notes

Motorized Torque-Arm (MTA)

G2-1 MTA
G2-2 Features and benefits
G2-3 Specifications
G2-4 Nomenclature
G2-6 Selection procedures
G2-30 Dimensions and accessories
G2-30 MTA2115
G2-34 MTA3203
G2-38 MTA4207
G2-42 MTA5215
G2-46 MTA6307
G2-50 MTA7315
G2-54 MTA8407
G2-56 MTA9415
G2-58 MTA10507
G2-60 MTA12608
G2-62 MTA backstop
G2-65 Engineering and technical data
G2-68 Accessories

Features and benefits
MTA



Since 1949, TA products have proven dependability with more than three million units in service throughout the world. TA reducers are the standard of the industry. MTA offers a heavy-duty, compact, right-angle gearbox that is available from stock and reduces maintenance and the overall total cost of ownership.



MTA shaft-mount reducers deliver longer life in demanding applications. Designed with a patented harsh-duty sealing system, twin-tapered bushings, and the highest torque rating per case size, MTA reducers provide maximum reliability with less maintenance to increase operating time and lower your total cost of ownership.

Backstop

The backstop design features a unique sprag profile for extended life and designed for use with lubricants containing EP additives.

Sealing system

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

Twin-tapered bushings

The patented twin-tapered bushing system—in standard length, short shaft, and metric versions—offers all the features of our standard twin-tapered bushing design for TA gear reducers which are unique to Dodge.

Specifications

The reducer shall be coupled enclosed shaft-mount type unit with a triple 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 motor shall be attached to the reducer with a cast iron adapter and shall utilize a flexible, jaw style, three-piece coupling to eliminate fretting corrosion and allow for any minor misalignment issues.

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

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

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

All seals shall be of the lip, spring loaded type, made of a premium harsh-duty, heat resistant material. A metal excluder seal with rubber lip shall be external to the standard oil seal on all outboard seals.

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

Backstops shall be severe duty sprag type and designed for use with standard and EP lubricants.

MTA screw conveyor drives general specification

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

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

The drive shall conform to CEMA standards.

Warranty policy matrix

General product category	Product category	Warranty period (months)	
		From installation date	From manufacture date
Enclosed gearing	TXT	12	36
	Torque-Arm II	18	36
	Motorized Torque-Arm	18	36

Nomenclature

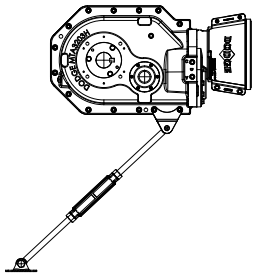
MTA2—MTA12

Inputs for C-face motors

MTA sizes 2—8
MTA C-face reducer
M3H25T21C Torque-Arm reducer only

M 3 H 25 T 21 C

- C = NEMA C-face
- 21 = Motor frame
- T = Tapered bore
- 25 = Nominal ratio
- H = Heavy-duty
- 3 = Case size
- M = Motorized Torque-Arm



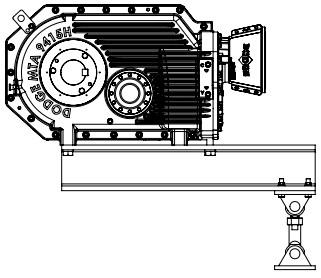
For reducer sizes 2 through 8 the tie rod should be positioned closest to the input end for reduction of stress on driven shaft

MTA sizes 9—12
MTAC-face reducer
M9H96T28C Torque-Arm reducer only

M 9 H 96 T 28 C

- C = NEMA C-face
- 28 = Motor frame
- T = Tapered bore
- 96 = Nominal ratio
- H = Heavy-duty
- 9 = Case size
- M = Motorized Torque-Arm

TSC - accommodates NEMA TS short-shaft, 2 pole, 280 frame and above
If "TSC" (TSC would be used for 3,600 rpm motor of this frame size of larger)



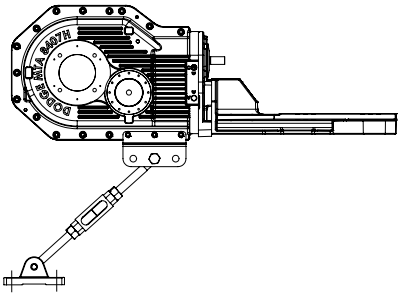
For reducer sizes 9 through 12 require the torque arm reaction beam when using C-face motor

Inputs for foot-mounted motors

MTA sizes 7—8
MTA Foot-mounted motor adapter reducer
M8H29T36F Torque-Arm reducer only

M 8 H 29 T 36 F

- F = NEMA T-frame foot-mounted motors
- 36= Motor frame
- T = Tapered bore
- 29 = Nominal ratio
- H = Heavy-duty
- 8 = Case size
- M = Motorized Torque-Arm

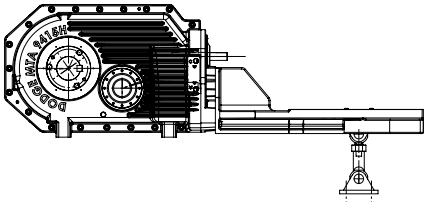


For reducer sizes 7 through 8 require the tie rod in tis position when using a foot-mounted motor

MTA sizes 9—12
MTA Foot-mounted motor adapter reducer
M9H29T440F Torque-Arm reducer only

M 9 H 29 T 440 F

- F = NEMA T-frame foot-mounted motors
- 440 = Motor frame
- T = Tapered bore
- 29 = Nominal ratio
- H = Heavy-duty
- 9 = Case size
- M = Motorized Torque-Arm



For reducer sizes 9 through 12 assemblies using a footed motor base will include the torque arm, when attaches directly to the base

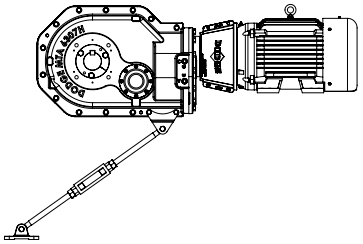
MTA2—MTA12

Inputs with C-face motors

MTA C-face gearmotor
M6H67T28C2518 Torque-Arm reducer and motor

M 6 H 67 T 28 C 25 18

- 18 = Motor speed (rpm)
- 25 = Motor horsepower (hp)
- C = NEMA C-face
- 28 = Motor frame
- T = Tapered bore
- 67 = Nominal ratio
- H = Heavy-duty
- 6 = Case size
- M = Motorized Torque-Arm

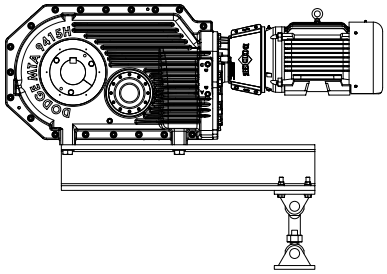


For reducer sizes 2 through 8 the tie rod should be positioned closest to the input end for reduction of stress on driven shaft

MTA C-face reducer
M9H96T28C2518 Torque-Arm reducer and motor

M 9 H 96 T 28 C 25 18

- 18 = Motor speed (rpm)
- 25 = Motor horsepower (hp)
- C = NEMA C-face
- 28 = Motor frame
- T = Tapered bore
- 96 = Nominal ratio
- H = Heavy-duty
- 9 = Case size
- M = Motorized Torque-Arm



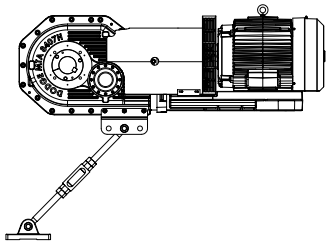
For reducer sizes 9 through 12 require a torque arm reaction beam when using any C-face motor

Inputs with foot mounted motors

MTA reducer
M8H40T36F6018 Torque-Arm reducer and motor

M 8 H 40 T 36 F 60 18

- 18 = Motor speed (rpm)
- 60 = Motor horsepower (hp)
- F = NEMA T-frame foot-mounted motor
- 36 = Motor frame
- T = Tapered bore
- 40 = Nominal ratio
- H = Heavy-duty
- 8 = Case size
- M = Motorized Torque-Arm

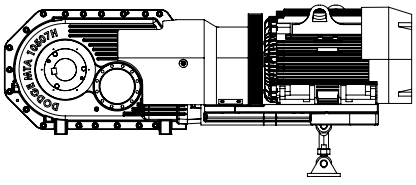


For reducer sizes 7 through 8 require a rod in this position when using a foot-mounted motor

MTA Foot-mounted adapter gearmotor
M12H48T440F12518W Torque-Arm reducer and motor

M 12 H 48 T 440 F 125 18 W or B

- W = WEG W22 motor
- B = Baldor ECP motor
- 18 = Motor speed (rpm)
- 125 = Motor horsepower (hp)
- F = NEMA T-frame foot-mounted motors
- 440 = Motor frame
- T = Tapered bore
- 48 = Nominal ratio
- H = Heavy-duty
- 12 = Case size
- M = Motorized Torque-Arm



For reducer sizes 9 through 12 assemblies using a footed motor base will include the torque arm, which attaches directly to the base

Selection procedures
MTA and screw conveyor drives

When to use easy selection

The easy selection tables for MTA reducers are for electric motor selections up to 100 horsepower with output speeds up to ~150 rpm, using AGMA recommended application class numbers. For extreme shock or high energy loads which must be absorbed, as when stalling; for a power source other than an electric motor; or for extreme ambient temperatures or oversized equipment, consult Dodge Application Engineering at +1 864 284 5700.

How to select

Step 1: Determine class of service See Application Classification table on page REF-3, to determine load classification for applications under normal conditions. Find the type application and duty cycle:

Class I - Steady load not exceeding motor horsepower 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 two times the motor horsepower rating. If it exceeds this amount it should be divided by two and the result used in the selection table instead of the motor horsepower rating.

Class II - Steady load not exceeding motor horsepower 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 times the 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 horsepower rating.

(Note: most TA applications are Class II or better. TA products are usually used in heavy-duty applications)

Step 2: Determine reducer size From the easy selection, Class I or Class II tables, pages G2-11 through G2-18, find the reducer size for the application horsepower and output speed.

Step 3: Compare hollow-shaft bore with the size of the driven shaft All MTA reducers require bushings to mount the reducer to driven shaft. Refer to reducer pages for available bushings. If the driven shaft is larger than the bore of the selected reducers, the shaft must be machined to the proper size, or select a larger reducer. Check driven shaft and key for strength.

Step 4: Check dimensions See “Selection and dimensions” pages for reducer dimensions, weights, part numbers, and TA rod mounting positions. See “Engineering and technical” pages for reducer mounting positions, G2-74.

Step 5: Select accessories See "Selection and dimensions" pages for description, dimensions, weights, and any required accessories (e.g., backstops, bushing kits, screw-conveyor adapter kits, etc.) to complete your MTA drive assembly.

Shaft-mount reducer application

A 10 horsepower 1,750 rpm motor is used to drive a belt conveyor moving sand at 70 rpm. The conveyor is uniformly loaded and operates 16 hours per day. The head pulley shaft diameter is 2-3/16 iches. The user specifications call for a means of holding the conveyor from moving backwards.

Step 1: Determine class of service From the table on page REF-3 locate the appropriate application, “belt conveyors, uniformly loaded, or fed” for over 10 hours per day. This load is classified as a Class II application.

Step 2: Determine reducer size From Class II selection, page G2-36, find the column for 10 hp and read down to 70 rpm. At 71 rpm a reducer size M3H25T21C is the closest correct selection. If a full reducer and motor assembly is desired, see page G2-20 and use part number M3H25T21C1018, to include the motor.

Step 3: Compare hollow shaft bore of a size M3 reducer size with the head pulley shaft diameter Per page G2-36, 2-3/16 inches is a bore available for this size of reducer. It will work in this application. Be sure to check the driven shaft and key for strength.

Step 4: Check dimensions and weights See "Selection and dimensions" pages for reducer dimensions, weights, part numbers and other pertinent drive dimensions, as well as information on TA tie rod mounting positions. See “Engineering and technical” pages for information on reducer mounting positions G2-74.

Step 5: Select accessories See "Selection and dimensions" pages to pick out accessories for this application: TA4207BS Backstop assembly (MTA uses larger backstops than same case size TA II), to hold the conveyor from moving backwards; TA3203RA tie rod assembly, for attaching the reducer to the structure. ABS polymer bushing covers, to cover and protect the rotating bushing bolts.

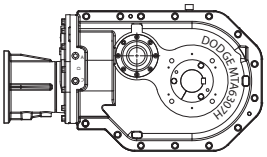
Selection guide

MTA

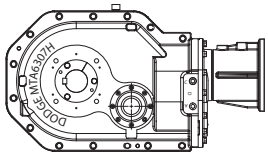
This is a reference sheet for quick selection and specification on MTA reducers. Use it to identify information needed to make an accurate selection with a step-by-step selection format for choosing a reducer, accessories, and belt drive.

Name		Company name	
Phone	Fax	Email	
Application data			
Driven equipment			
Type	Speed (rpm)	Shaft size	
Hours of service/day		Class of service	
Type of load	Uniform	Moderate	Shocks
Screw conveyor applications			
Screw diameter		Driveshaft diameter	
Motor hp	rpm	Frame size	Shaft size
Type of reducer mountings	Horizontal	Position D (motor up)	
Vertical: driven shaft - E or F	Incline (degree of)	Flange mounting	

Horizontal mounting (output shaft vertical)

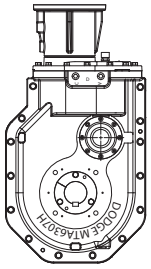


Position A

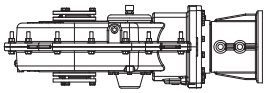


Position C
(preferred mounting position)

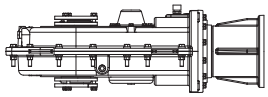
Vertical mounting (output shaft vertical)



Position D



Position E



Position F

Unusual ambient temperature			
Other important application characteristics (reversing duty, start-stop cycles)			
Reducer drive selection			
Step 1—Determine class of service			
Step 2—From the Class of Service table, select reducer type, size, and ratio that meets application hp and driven rpm requirements			
Twin-taper-bushed		Screw conveyor	
Step 3—Select reducer accessories required for application			
Twin-tapered bushing kit	Standard shaft	Short shaft	
Tie rod assembly	Backstop	Adapter and hardware kit	
Adjustable packing kit	Driveshaft	Stainless driveshafts	
Other			

Engineering selections

Speed, horsepower, torque, and ratios

Nominal ratios	Size	MTA2115	MTA3203	MTA4207	MTA5215	MTA6307	MTA7315	MTA8407	MTA9415	MTA10507	MTA12608
	Motor speed (rpm)	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**
100—120	Actual output speed (rpm)	—	—	—	—	—	—	—	15	16	17
	Class I catalog power (hp)	—	—	—	—	—	—	—	47.5	73.8	98.5
	Class I torque (lb-in)	—	—	—	—	—	—	—	186,609	261,245	328,605
	Actual ratio	—	—	—	—	—	—	—	119.56	108.35	101.55
90—99	Actual output speed (rpm)	—	—	—	—	—	—	—	18	20	—
	Class I catalog power (hp)	—	—	—	—	—	—	—	59	89.9	—
	Class I torque (lb-in)	—	—	—	—	—	—	—	186,609	257,987	—
	Actual ratio	—	—	—	—	—	—	—	96.42	87.38	—
80—89	Actual output speed (rpm)	—	—	—	—	—	—	—	21	—	21
	Class I catalog power (hp)	—	—	—	—	—	—	—	68	—	120.6
	Class I torque (lb-in)	—	—	—	—	—	—	—	186,609	—	328,587
	Actual ratio	—	—	—	—	—	—	—	83.70	—	82.95
75—79	Actual output speed (rpm)	23	23	—	—	22	23	22	22	23	—
	Class I catalog power (hp)	4.4	7.1	—	—	23.6	36.7	50.8	69.4	101.9	—
	Class I torque (lb-in)	11,155	17,020	—	—	61,675	92,264	131,708	185,397	255,790	—
	Actual ratio	76.96	76.02	—	—	78.53	76.46	78.80	79.89	75.85	—
70—75	Actual output speed (rpm)	25	25	24	24	—	—	—	—	24	25
	Class I catalog power (hp)	4.8	7.4	11.5	19.2	—	—	—	—	106.8	140.7
	Class I torque (lb-in)	11,155	17,020	27,555	45,078	—	—	—	—	253,960	351,011
	Actual ratio	71.18	70.30	73.57	71.98	—	—	—	—	72.40	71.09
65—69	Actual output speed (rpm)	26	27	26	—	26	26	26	26	—	26
	Class I catalog power (hp)	5.0	7.8	12.4	—	27.5	41.7	58.2	82.1	—	147.5
	Class I torque (lb-in)	11,155	17,020	27,307	—	60,887	91,073	130,018	184,388	—	328,589
	Actual ratio	66.07	65.26	66.17	—	66.92	66.57	68.53	67.50	—	67.82
60—65	Actual output speed (rpm)	—	—	29	27	—	—	29	27	29	—
	Class I catalog power (hp)	—	—	13.2	20.8	—	—	64.8	85.6	124.9	—
	Class I torque (lb-in)	—	—	27,095	44,903	—	—	128,779	183,533	251,083	—
	Actual ratio	—	—	61.04	64.74	—	—	60.13	64.79	61.17	—
55—59	Actual output speed (rpm)	30	30	—	29	30	30	—	31	30	30
	Class I catalog power (hp)	5.8	9.0	—	23.0	31.5	47.3	—	99	129.5	172.2
	Class I torque (lb-in)	11,155	17,020	—	44,821	60,309	90,199	—	181,092	249,932	328,581
	Actual ratio	58.29	57.58	—	59.73	59.05	57.58	—	55.93	58.72	58.07
50—55	Actual output speed (rpm)	34	35	34	35	33	34	33	33	35	32
	Class I catalog power (hp)	6.5	10.1	15.6	26.7	34.3	53.8	74.6	105	148.4	194.8
	Class I torque (lb-in)	11,050	16,940	26,421	44,206	59,800	89,216	127,379	181,092	247,118	328,566
	Actual ratio	51.31	50.68	51.72	50.61	52.35	50.97	52.53	52.53	50.69	54.76
45—49	Actual output speed (rpm)	37	37	36	36	35	—	35	39	37	37
	Class I catalog power (hp)	7.0	10.9	16.4	28.2	36.2	—	76.0	119.7	157.3	210.6
	Class I torque (lb-in)	10,950	16,876	26,217	44,012	59,500	—	127,250	178,548	245,945	328,560
	Actual ratio	47.45	46.87	49.04	47.99	50.26	—	50.58	45.36	47.60	47.48
40—44	Actual output speed (rpm)	40	40	40	41	39	39	38	42.57	39.93	39
	Class I catalog power (hp)	7.6	11.9	18.0	31.1	39.8	60.9	84.1	123.50	178.90	224.5
	Class I torque (lb-in)	10,888	16,849	25,870	43,712	59,050	88,110	126,275	177,066	242,812	328,567
	Actual ratio	44.05	43.51	44.11	43.16	44.61	44.38	45.69	43.83	41.11	44.55
35—39	Actual output speed (rpm)	45	46	43	44	44	46	43.65	48	44	46
	Class I catalog power (hp)	8.4	13.1	19.0	32.9	44.7	69.0	96.10	144.8	185.3	260.9
	Class I torque (lb-in)	10,700	16,463	25,600	39,450	58,420	87,012	124,850	174,844	241,776	328,577
	Actual ratio	38.86	38.39	40.70	39.82	39.37	38.39	40.09	36.77	39.72	38.33
33—34	Actual output speed (rpm)	49	49	51	52	52	52	52	49	53	48
	Class I catalog power (hp)	9.0	14.2	21.8	38.8	52.1	77.9	109.9	149.4	204	273.5
	Class I torque (lb-in)	10,600	16,258	25,059	42,734	57,598	85,900	122,950	174,399	223,465	327,825
	Part number	35.88	35.44	34.48	33.74	33.51	33.48	33.90	35.52	33.33	36.56
30—32	Actual output speed (rpm)	54	55	58	—	—	—	57	57	54	56
	Class I catalog power (hp)	9.8	15.3	24.7	—	—	—	120.2	170.6	209.8	319.6
	Class I torque (lb-in)	10,459	15,999	24,514	—	—	—	122,121	172,540	221,947	327,825
	Actual ratio	32.15	31.75	30.05	—	—	—	30.76	30.69	32.19	31.19
27—29	Actual output rpm	59	60	—	60	60	61	65	60	63	58
	Class I catalog hp	10.5	16.4	—	43.6	59.4	90.1	135.9	179	237.3	331.2
	Class I torque lb-in	10,300	15,778	—	42,205	56,877	84,900	120,500	171,507	216,836	327,823
	Actual ratio	29.64	29.28	—	29.41	29.03	28.65	26.82	29.16	27.81	30.12

Engineering selections

Speed, horsepower, torque, and ratios

Nominal ratios	Size	MTA2115	MTA3203	MTA4207	MTA5215	MTA6307	MTA7315	MTA8407	MTA9415	MTA10507	MTA12608
	Motor speed (rpm)	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**	**1,750**
24—26	Actual output speed (rpm)	70	71	68	70	72	68	—	70	66	68
	Class I catalog power (hp)	12.1	18.9	28.3	50.4	69.8	98.9	—	206.8	247.3	389.9
	Class I torque (lb-in)	9,961	15,322	23,946	41,608	55,995	83,900	—	168,984	214,721	327,807
	Actual ratio	24.87	24.57	25.57	25.05	24.43	25.66	—	24.87	26.42	25.59
22—23	Actual output speed (rpm)	—	—	—	—	79	—	77	75	78	73
	Class I catalog power (hp)	—	—	—	—	76.0	—	156.3	219.6	283	411.6
	Class I torque (lb-in)	—	—	—	—	55,400	—	118,690	168,025	209,549	324,996
	Actual ratio	—	—	—	—	22.04	—	22.77	23.22	22.54	24.03
18—21	Actual output speed (rpm)	82	83	80	82	—	80	—	86	83	88 | 83
	Class I catalog power (hp)	13.7	21.6	32.5	58.4	—	114.7	—	239.8	323.2	469 | 449
	Class I torque (lb-in)	9,594	14,894	23,375	40,566	—	82,705	—	160,805	207,462	306,052 | 321,650
	Actual ratio	21.22	20.96	21.82	21.35	—	21.74	—	20.41	21.04	19.86 | 21.08
16—17	Actual output speed (rpm)	99	100	98	100	92	93	100	108	95	104
	Class I catalog power (hp)	15.7	25.2	38.6	65.0	86.0	129.4	201.5	284.7	328.8	513.0
	Class I torque (lb-in)	9,100	14,450	22,660	36,974	53,743	80,425	114,960	151,944	199,890	291,066
	Actual ratio	17.68	17.46	17.89	17.50	18.95	18.77	17.43	16.25	18.50	16.83
13—15	Actual output speed (rpm)	119	121	122	125	123	124	126	—	119	126
	Class I catalog power (hp)	15.7	25.2	38.6	65	86	129.4	201.5	—	385.8	513.0
	Class I torque (lb-in)	7,540	11,952	18,152	29,572	40,141	60,154	91,460	—	186,737	278,959
	Actual ratio	14.65	14.47	14.35	14.04	14.24	14.11	13.93	—	14.73	13.90

Easy selection

Horsepower and speed

Easy selection table use for gear reducer and gearmotor selection:

- Select the gearbox based on horsepower and speed
- Most TA applications will require a Class II service factor
- When you have selected the gear reducer, note which motor speed is required to be used for that output speed. There are 1,750 and 3,450 rpm motors used.
- If the customer wants to order as a gearmotor package (such as gear reducer and C-face motor), refer to pages G2-19 to G2-28.
- The motors used in the listed Class I and Class II standard gearmotor part numbers (example: M4H26T25C2018) are premium efficient VEM or CEM motors; the motors are totally enclosed, three-phase, C-face, IP44, and good for 10:1 VFD use.

Basic CEM and VEM features are listed as:

- Locked DE bearing to allow mounting in any configuration
- 60 Hz designs with 50 Hz information on 2, 4, 6 pole 1—100 hp ratings
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2
- Simple F1 to F2 conversion on cast iron frames

Basic CECP features are listed as:

- Robust, cast iron construction
- Regreasable bearings all frames
- Embossed raised letter, 304 stainless-steel nameplates
- Inverter-ready nameplate
- Division 2, Class I, Groups A, B, C, D markings on nameplate
- Locked bearing to allow mounting in any configuration

The severe duty motors listed in the Class II sections example: M4H26T25C2018CP, are Premium Efficient CECP severe-duty motors. They are three phase, totally enclosed, C-face motors, IP55. Good for 10:1 VFD use.

For extreme applications requiring higher starting torque, we have some Class III selections with NEMA C-face motors; please contact Dodge Gearing Product Management Team or your local Dodge Sales Engineer.

Class I

Easy selection horsepower and speed

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
	23	M2H77T18C	1,750
	25	M2H71T18C	1,750
	26	M2H66T18C	1,750
	30	M2H58T18C	1,750
	34	M2H54T18C	1,750
	37	M2H47T18C	1,750
	40	M2H44T18C	1,750
	45	M2H39T18C	1,750
	49	M2H36T18C	1,750
	52	M2H66T18C	3,450
	54	M2H32T18C	1,750
	59	M2H30T18C	1,750
	67	M2H51T18C	3,450
3	70	M2H25T18C	1,750
	73	M2H47T18C	3,450
	78	M2H44T18C	3,450
	82	M2H21T18C	1,750
	89	M2H39T18C	3,450
	96	M2H36T18C	3,450
	99	M2H18T18C	1,750
	107	M2H32T18C	3,450
	116	M2H30T18C	3,450
	119	M2H15T18C	1,750
	139	M2H25T18C	3,450
	163	M2H21T18C	3,450
	195	M2H18T18C	3,450
	235	M2H15T18C	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
	23	M3H76T18C	1,750
	25	M3H70T18C	1,750
	26	M2H66T18C	1,750
	30	M2H58T18C	1,750
	34	M2H54T18C	1,750
	37	M2H47T18C	1,750
	40	M2H44T18C	1,750
	45	M2H39T18C	1,750
	49	M2H36T18C	1,750
	52	M2H66T18C	3,450
	54	M2H32T18C	1,750
	59	M2H30T18C	1,750
	67	M2H51T18C	3,450
5	70	M2H25T18C	1,750
	73	M2H47T18C	3,450
	78	M2H44T18C	3,450
	82	M2H21T18C	1,750
	89	M2H39T18C	3,450
	96	M2H36T18C	3,450
	99	M2H18T18C	1,750
	107	M2H32T18C	3,450
	116	M2H30T18C	3,450
	119	M2H15T18C	1,750
	139	M2H25T18C	3,450
	163	M2H21T18C	3,450
	195	M2H18T18C	3,450
	235	M2H15T18C	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
	24	M4H74T21C	1,750
	26	M4H66T21C	1,750
	27	M3H65T21C	1,750
	30	M3H58T21C	1,750
	35	M3H51T21C	1,750
	37	M3H47T21C	1,750
	40	M2H44T21C	1,750
	45	M2H39T21C	1,750
	49	M2H36T21C	1,750
	52	M2H66T21C	3,450
	54	M2H32T21C	1,750
	59	M2H30T21C	1,750
	67	M2H51T21C	3,450
7.5	70	M2H25T21C	1,750
	73	M2H47T21C	3,450
	78	M2H44T21C	3,450
	82	M2H21T21C	1,750
	89	M2H39T21C	3,450
	96	M2H36T21C	3,450
	99	M2H18T21C	1,750
	107	M2H32T21C	3,450
	116	M2H30T21C	3,450
	119	M2H15T21C	1,750
	139	M2H25T21C	3,450
	163	M2H21T21C	3,450
	195	M2H18T21C	3,450
	235	M2H15T21C	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
	24	M4H74T21C	1,750
	26	M4H66T21C	1,750
	29	M4H61T21C	1,750
	34	M4H52T21C	1,750
	35	M3H51T21C	1,750
	37	M3H47T21C	1,750
	40	M3H44T21C	1,750
	46	M3H38T21C	1,750
	49	M3H35T21C	1,750
	53	M3H65T21C	3,450
	55	M3H32T25C	1,750
	59	M2H30T21C	1,750
	67	M2H51T21C	3,450
10	70	M2H25T21C	1,750
	73	M2H47T21C	3,450
	78	M2H44T21C	3,450
	82	M2H21T21C	1,750
	89	M2H39T21C	3,450
	96	M2H36T21C	3,450
	99	M2H18T21C	1,750
	107	M2H32T21C	3,450
	116	M2H30T21C	3,450
	119	M2H15T21C	1,750
	139	M2H25T21C	3,450
	163	M2H21T21C	3,450
	195	M2H18T21C	3,450
	235	M2H15T21C	3,450

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application.

Class I MTA

Easy selection

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
15	24	M5H72T25C	1,750
	27	M5H65T25C	1,750
	29	M5H60T25C	1,750
	34	M4H52T25C	1,750
	36	M4H49T25C	1,750
	40	M4H44T25C	1,750
	43	M4H41T25C	1,750
	47	M4H74T25C	3,450
	51	M4H34T25C	1,750
	52	M4H66T25C *	3,450
	55	M3H32T25C	1,750
	60	M3H29T25C	1,750
	68	M3H51T25C *	3,450
	71	M3H25T25C	1,750
	74	M3H47T25C *	3,450
	79	M3H44T25C *	3,450
	83	M3H21T25C	1,750
	90	M3H38T25C *	3,450
	96	M2H36T25C *	3,450
	99	M2H18T25C	1,750
	107	M2H32T25C *	3,450
	116	M2H30T25C *	3,450
	119	M2H15T25C	1,750
	139	M2H25T25C *	3,450
	163	M2H21T25C *	3,450
	195	M2H18T25C *	3,450
	235	M2H15T25C *	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
20	22	M6H79T25C	1,750
	26	M6H67T25C	1,750
	27	M5H65T25C	1,750
	29	M5H60T25C	1,750
	35	M5H51T25C	1,750
	36	M5H48T25C	1,750
	41	M5H43T25C	1,750
	44	M5H40T25C	1,750
	47	M4H74T25C *	3,450
	51	M4H34T25C	1,750
	58	M4H30T25C	1,750
	68	M4H26T25C	1,750
	70	M4H49T25C *	3,450
	79	M3H44T25C *	3,450
	83	M3H21T25C	1,750
	90	M3H38T25C *	3,450
	97	M3H35T25C *	3,450
	100	M3H17T25C	1,750
	109	M3H32T25C *	3,450
	118	M3H29T25C *	3,450
	121	M3H14T25C	1,750
	140	M3H25T25C *	3,450
	163	M2H21T25C *	3,450
	195	M2H18T25C *	3,450
	235	M2H15T25C *	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
25	23	M7H76T28C	1,750
	26	M6H67T28C	1,750
	30	M6H59T28C	1,750
	33	M6H52T28C	1,750
	35	M5H51T28C	1,750
	36	M5H48T28C	1,750
	41	M5H43T28C	1,750
	44	M5H40T28C	1,750
	48	M5H72T28TSC *	3,450
	52	M5H34T28C	1,750
	58	M5H60T28TSC *	3,450
	60	M5H29T28C	1,750
	68	M4H26T28C	1,750
	70	M4H49T28TSC *	3,450
	78	M4H44T28TSC *	3,450
	80	M4H22T28C	1,750
	85	M4H41T28TSC *	3,450
	98	M4H18T28C	1,750
	100	M4H34T28TSC *	3,450
	115	M4H30T28TSC *	3,450
	122	M4H14T28C	1,750
	140	M3H25T28TSC *	3,450
	165	M3H21T28TSC *	3,450
	198	M3H17T28TSC *	3,450
	238	M3H14T28TSC *	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
30	23	M7H76T28C	1,750
	26	M7H67T28C	1,750
	30	M6H59T28C	1,750
	33	M6H52T28C	1,750
	35	M6H50T28C	1,750
	39	M6H45T28C	1,750
	41	M5H43T28C	1,750
	44	M5H40T28C	1,750
	48	M5H72T28TSC *	3,450
	52	M5H34T28C	1,750
	60	M5H29T28C	1,750
	70	M5H25T28C	1,750
	72	M5H48T28TSC *	3,450
	78	M4H44T28TSC *	3,450
	80	M4H22T28C	1,750
	85	M4H41T28TSC *	3,450
	98	M4H18T28C	1,750
	100	M4H34T28TSC *	3,450
	115	M4H30T28TSC*	3,450
	122	M4H14T28C	1,750
	140	M3H25T28TSC *	3,450
	165	M3H21T28TSC *	3,450
	198	M3H17T28TSC *	3,450
	238	M3H14T28TSC *	3,450

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of application. This reducer-motor combination may require additional cooling in C-face configuration, if electric fan not available, you may need to add cooling or gearbox may run hot (3,600 rpm input speed especially). Avoid position “D” mounting in these cases.

Class I MTA

Easy selection

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
40	15	M9H120T32C	1,750
	18	M9H96T32C	1,750
	21	M9H84T32C	1,750
	22	M8H79T32C	1,750
	26	M7H67T32C	1,750
	30	M7H58T32C	1,750
	34	M7H51T32C	1,750
	39	M7H44T32C	1,750
	44	M6H39T32C	1,750
	52	M6H34T32C	1,750
	58	M5H60T32TSC *	3,450
	60	M5H29T32C	1,750
	68	M5H51T32TSC *	3,450
	70	M5H25T32C	1,750
	72	M5H48T32TSC *	3,450
	80	M5H43T32TSC *	3,450
	82	M5H21T32C	1,750
	87	M5H40T32TSC *	3,450
	100	M5H18T32C	1,750
	102	M5H34T32TSC *	3,450
	115	M4H30T32TSC *	3,450
	125	M4H14T32C	3,450
	135	M4H26T32TSC *	3,450
	158	M4H22T32TSC *	3,450
	193	M4H18T32TSC *	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
50	16	M10H108T32C	1,750
	18	M9H96T32C	1,750
	21	M9H84T32C	1,750
	22	M8H79T32C	1,750
	26	M8H69T32C	1,750
	29	M8H60T32C	1,750
	34	M7H51T32C	1,750
	39	M7H44T32C	1,750
	46	M7H38T32C	1,750
	52	M6H34T32C	1,750
	58	M6H59T32TSC *	3,450
	60	M6H29T32C	1,750
	66	M6H52T32TSC *	3,450
	70	M5H25T32C	1,750
	80	M5H43T32TSC *	3,450
	82	M5H21T32C	1,750
	87	M5H40T32TSC *	3,450
	100	M5H18T32C	1,750
	117	M5H29T32TSC *	3,450
	125	M5H14T32C	1,750
	138	M5H25T32TSC *	3,450
	158	M4H22T32TSC *	3,450
	193	M4H18T32TSC *	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
60	16	M10H108T36C or F	1,750
	20	M10H87T36C or F	1,750
	21	M9H84T36C or F	1,750
	22	M9H80T36C or F	1,750
	26	M9H68T36C or F	1,750
	27	M9H65T36C or F	1,750
	29	M8H60T36C or F *	1,750
	33	M8H53T36C or F *	1,750
	34	M8H51T36C or F *	1,750
	38	M8H46T36C or F *	1,750
	39	M7H44T36C or F *	1,750
	46	M7H38T36C or F *	1,750
	52	M7H33T36C or F *	1,750
	61	M7H29T36C or F *	1,750
	66	M6H52T36TSC *	3,450
	69	M6H50T36TSC *	3,450
	72	M6H24T36C	1,750
	77	M6H45T36TSC *	3,450
	79	M6H22T36C	1,750
	88	M6H39T36TSC *	3,450
	92	M6H19T36C	1,750
	100	M5H18T36C *	1,750
	102	M5H34T36TSC *	3,450
	117	M5H29T36TSC *	3,450
	125	M5H14T36C *	1,750
	138	M5H25T36TSC *	3,450
	162	M5H21T36TSC *	3,450
	197	M5H18T36TSC *	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
75	17	M12H102T36C or F	1,750
	20	M10H87T36C or F	1,750
	23	M10H76T36C or F	1,750
	24	M10H72T36C or F	1,750
	26	M9H68T36C or F	1,750
	27	M9H65T36C or F	1,750
	31	M9H56T36C or F	1,750
	33	M9H53T36C or F	1,750
	34	M8H51T36C or F	1,750
	38	M8H46T36C or F	1,750
	44	M8H40T36C or F	1,750
	52	M7H33T36C or F *	1,750
	61	M7H29T36C or F *	1,750
	68	M7H26T36C or F *	1,750
	80	M7H22T36C or F *	1,750
	92	M6H19T36C *	1,750
	103	M6H34T36TSC *	3,450
	119	M6H29T36TSC *	3,450
	123	M6H14T36C *	1,750
	141	M6H24T36TSC *	3,450
	157	M6H22T36TSC *	3,450
	162	M5H21T36TSC *	3,450
	197	M5H18T36TSC*	3,450

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application. This reducer-motor combination may require additional cooling in C-face configuration, and if electric fan is not available, you may need to add cooling or gear reducer may run hot (3,600 rpm input speed especially). Avoid position “D” mounting in these cases. Thermal considerations are based on a maximum ambient temperature of 100 °F.

Class I MTA

Easy selection

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
100	21	M12H83T405F	1,750
	23	M10H76T405F	1,750
	24	M10H72T405F	1,750
	29	M10H62T405F	1,750
	30	M10H59T405F	1,750
	33	M9H53T405F	1,750
	39	M9H46T405F	1,750
	40	M9H44T405F	1,750
	48	M9H37T405F	1,750
	49	M9H36T405F	1,750
	52	M8H34T405F	1,750
	57	M8H31T405F	1,750
	65	M8H27T405F	1,750
	77	M8H23T405F	1,750
	100	M8H17T405F	1,750
	126	M8H14T405F	1,750

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
125	25	M12H71T440F	1,750
	26	M12H68T440F	1,750
	30	M10H59T440F	1,750
	35	M10H51T440F	1,750
	37	M10H48T440F	1,750
	43	M10H41T440F	1,750
	44	M10H40T440F	1,750
	48	M9H37T440F	1,750
	49	M9H36T440F	1,750
	57	M9H31T440F	1,750
	60	M9H29T440F	1,750
	70	M9H25T440F	1,750
	75	M9H23T440F	1,750
	86	M9H21T440F	1,750
	108	M9H16T440F	1,750

Horsepower (hp)	Output speed (rpm)w	Reducer	Motor speed (rpm)
150	30	M12H58T440F	1,750
	32	M12H55T440F	1,750
	37	M10H48T440F	1,750
	43	M10H41T440F	1,750
	44	M10H40T440F	1,750
	53	M10H33T440F	1,750
	54	M10H32T440F	1,750
	57	M9H31T440F	1,750
	60	M9H29T440F	1,750
	70	M9H25T440F	1,750
	75	M9H23T440F	1,750
	86	M9H20T440F	1,750
	108	M9H16T440F	1,750

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
200	37	M12H48T440F	1,750
	39	M12H45T440F *	1,750
	46	M12H38T440F	1,750
	48	M12H37T440F *	1,750
	56	M12H31T440F	1,750
	58	M12H30T440F *	1,750
	68	M12H26T440F	1,750
	73	M12H24T440F	1,750
	83	M12H21T440F	1,750
	90	M12H20T440F	1,750
	95	M12H17T440F	1,750
	119	M12H14T440F	1,750

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Class II MTA

Easy selection

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
3	23	M2H77T18C	1,750
	25	M2H71T18C	1,750
	26	M2H66T18C	1,750
	30	M2H58T18C	1,750
	34	M2H54T18C	1,750
	37	M2H47T18C	1,750
	40	M2H44T18C	1,750
	45	M2H39T18C	1,750
	49	M2H36T18C	1,750
	54	M2H32T18C	1,750
	59	M2H30T18C	1,750
	67	M2H51T18C	3,450
	70	M2H25T18C	1,750
	73	M2H47T18C	3,450
	78	M2H44T18C	3,450
	82	M2H21T18C	1,750
	89	M2H39T18C	3,450
	96	M2H36T18C	3,450
	99	M2H18T18C	1,750
	107	M2H32T18C	3,450
	116	M2H30T18C	3,450
	119	M2H14T18C	1,750
	139	M2H25T18C	3,450
	163	M2H21T18C	3,450
	195	M2H18T18C	3,450
	235	M2H14T18C	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
5	23	M3H76T18C	1,750
	25	M3H70T18C	1,750
	27	M3H65T18C	1,750
	30	M3H58T18C	1,750
	35	M3H51T18C	1,750
	37	M3H47T18C	1,750
	40	M2H44T18C	1,750
	45	M2H39T18C	1,750
	49	M2H36T18C	1,750
	54	M2H32T18C	1,750
	59	M2H30T18C	1,750
	67	M2H51T18C	3,450
	70	M2H25T18C	1,750
	73	M2H47T18C	3,450
	78	M2H44T18C	3,450
	82	M2H21T18C	1,750
	89	M2H39T18C	3,450
	96	M2H36T18C	3,450
	99	M2H18T18C	1,750
	107	M2H32T18C	3,450
	116	M2H30T18C	3,450
	119	M2H14T18C	1,750
	139	M2H25T18C	3,450
	163	M2H21T18C	3,450
	195	M2H18T18C	3,450
	235	M2H14T18C	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
7.5	24	M4H74T21C	1,750
	26	M4H66T21C	1,750
	29	M4H61T21C	1,750
	34	M4H52T21C	1,750
	36	M4H49T21C	1,750
	37	M3H47T21C	1,750
	40	M3H44T21C	1,750
	46	M3H38T21C	1,750
	49	M3H35T21C	1,750
	53	M3H65T21C	3,450
	55	M3H32T21C	1,750
	60	M3H29T21C	1,750
	67	M2H51T21C	3,450
	70	M2H25T21C	1,750
	73	M2H47T21C	3,450
	78	M2H44T21C	3,450
	82	M2H21T21C	1,750
	89	M2H39T21C	3,450
	96	M2H36T21C	3,450
	99	M2H18T21C	1,750
	107	M2H32T21C	3,450
	116	M2H30T21C	3,450
	119	M2H14T21C	1,750
	139	M2H25T21C	3,450
	163	M2H21T21C	3,450
	195	M2H18T21C	3,450
	235	M2H14T21C	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
10	24	M5H72T21C	1,750
	27	M5H65T21C	1,750
	29	M5H60T21C	1,750
	34	M4H52T21C	1,750
	36	M4H49T21C	1,750
	40	M4H44T21C	1,750
	43	M4H41T21C	1,750
	47	M4H74T21C	3,450
	49	M3H35T21C	1,750
	53	M3H65T21C	3,450
	55	M3H32T21C	1,750
	60	M3H29T21C	1,750
	68	M3H51T21C	3,450
	71	M3H25T21C	1,750
	74	M3H47T21C	3,450
	79	M3H44T21C	3,450
	83	M3H21T21C	1,750
	89	M2H39T21C	3,450
	96	M2H36T21C	3,450
	99	M2H18T21C	1,750
	107	M2H32T21C	3,450
	116	M2H30T21C	3,450
	119	M2H14T21C	1,750
	139	M2H25T21C	3,450
	163	M2H21T21C	3,450
	195	M2H18T21C	3,450
	235	M2H14T21C	3,450

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Class II MTA

Easy selection

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
15	22	M6H79T25C	1,750
	26	M6H67T25C	1,750
	29	M5H60T25C	1,750
	35	M5H51T25C	1,750
	36	M5H48T25C	1,750
	41	M5H43T25C	1,750
	44	M5H40T25C	1,750
	48	M5H72T25C	3,450
	51	M4H34T25C	1,750
	58	M4H30T25C	1,750
	68	M4H26T25C	1,750
	70	M4H49T25C	3,450
	79	M3H44T25C	3,450
	83	M3H21T25C	1,750
	90	M3H38T25C	3,450
	97	M3H35T25C	3,450
	100	M3H17T25C	1,750
	109	M3H32T25C	3,450
	118	M3H29T25C	3,450
	121	M3H14T25C	1,750
	140	M3H25T25C	3,450
	163	M2H21T25C	3,450
	195	M2H18T25C	3,450
	235	M2H14T25C	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
20	23	M7H76T25C	1,750
	27	M7H67T25C	1,750
	30	M6H59T25C	1,750
	33	M6H52T25C	1,750
	35	M6H50T25C	1,750
	39	M6H45T25C	1,750
	41	M5H43T25C	1,750
	44	M5H40T25C	1,750
	48	M5H72T25C	3,450
	52	M5H34T25C	1,750
	60	M5H29T25C	1,750
	68	M4H26T25C	1,750
	70	M4H49T25C	3,450
	78	M4H44T25C	3,450
	80	M4H22T25C	1,750
	85	M4H41T25C	3,450
	98	M4H18T25C	1,750
	100	M4H34T25C	3,450
	115	M4H30T25C	3,450
	121	M4H14T25C	1,750
	140	M3H25T25C	3,450
	165	M3H21T25C	3,450
	198	M3H17T25C	3,450
	238	M3H14T25C	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
25	15	M9H120T28C	1,750
	18	M9H96T28C	1,750
	21	M9H84T28C	1,750
	22	M8H79T28C	1,750
	26	M8H69T28C	1,750
	30	M7H58T28C	1,750
	34	M7H51T28C	1,750
	39	M7H44T28C	1,750
	44	M6H39T28C	1,750
	52	M6H34T28C	1,750
	60	M5H29T28C	1,750
	70	M5H25T28C	1,750
	80	M5H43T28TSC *	3,450
	82	M5H21T28C	1,750
	87	M5H40T28TSC *	3,450
	100	M5H18T28C	1,750
	117	M5H29T28TSC *	3,450
	125	M5H14T28C	1,750
	135	M4H26T28TSC *	3,450
	158	M4H22T28TSC *	3,450
	193	M4H18T28TSC *	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
30	15	M9H120T28C	1,750
	18	M9H96T28C	1,750
	21	M9H84T28C	1,750
	22	M8H79T28C	1,750
	26	M8H69T28C	1,750
	30	M7H58T28C	1,750
	34	M7H51T28C	1,750
	39	M7H44T28C	1,750
	44	M6H39T28C	1,750
	52	M6H34T28C	1,750
	60	M5H29T28C	1,750
	70	M5H25T28C	1,750
	80	M5H43T28TSC *	3,450
	82	M5H21T28C	1,750
	87	M5H40T28TSC *	3,450
	100	M5H18T28C	1,750
	117	M5H29T28TSC *	3,450
	125	M5H14T28C	1,750
	135	M4H26T28TSC *	3,450
	158	M4H22T28TSC *	3,450
	193	M4H18T28TSC *	3,450

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Class II MTA

Easy selection

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
40	16	M10H108T32C	1,750
	18	M9H96T32C	1,750
	21	M9H84T32C	1,750
	22	M9H80T32C	1,750
	26	M9H68T32C	1,750
	27	M9H65T32C	1,750
	29	M8H60T32C	1,750
	33	M8H53T32C	1,750
	34	M8H51T32C	1,750
	38	M8H46T32C	1,750
	39	M7H44T32C	1,750
	46	M7H38T32C	1,750
	52	M7H33T32C	1,750
	60	M6H29T32C	1,750
	66	M6H52T32TSC *	3,450
	69	M6H50T32TSC *	3,450
	72	M6H24T32C	1,750
	79	M6H22T32C	1,750
	82	M5H21T32C	1,750
	87	M5H40T32TSC *	3,450
	100	M5H18T32C	1,750
	117	M5H29T32TSC *	3,450
	125	M5H14T32C	1,750
	138	M5H25T32TSC *	3,450
	162	M5H21T32TSC *	3,450
	193	M4H18T32TSC *	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
50	16	M10H108T32C	1,750
	20	M10H87T32C	1,750
	23	M10H76T32C	1,750
	24	M10H72T32C	1,750
	26	M9H68T32C	1,750
	27	M9H65T32C	1,750
	31	M9H56T32C	1,750
	33	M8H53T32C	1,750
	34	M8H51T32C	1,750
	38	M8H46T32C	1,750
	44	M8H40T32C	1,750
	52	M7H33T32C	1,750
	60	M7H58T32TSC *	3,450
	61	M7H29T32C	1,750
	68	M7H26T32C	1,750
	72	M6H24T32C	1,750
	79	M6H22T32C	1,750
	88	M6H39T32TSC *	3,450
	92	M6H19T32C	1,750
	103	M6H34T32TSC *	3,450
	119	M6H29T32TSC *	3,450
	123	M6H14T32C	1,750
	138	M5H25T32TSC *	3,450
	162	M5H21T32TSC *	3,450
	197	M5H18T32TSC *	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
60	17	M12H102T36C or F	1,750
	20	M10H87T36C or F	1,750
	23	M10H76T36C or F	1,750
	24	M10H72T36C or F	1,750
	27	M9H65T36C or F	1,750
	31	M9H56T36C or F	1,750
	33	M9H53T36C or F	1,750
	38	M8H46T36C or F	1,750
	44	M8H40T36C or F	1,750
	52	M8H34T36C or F	1,750
	57	M8H31T36C or F	1,750
	61	M7H29T36C or F	1,750
	68	M7H26T36C or F	1,750
	80	M7H22T36C or F	1,750
	92	M6H19T36C	1,750
	103	M6H34T36TSC *	3,450
	119	M6H29T36TSC *	3,450
	123	M6H14T36C	1,750
	141	M6H24T36TSC *	3,450
	157	M6H22T36TSC *	3,450

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
75	21	M12H83T36C or F	1,750
	24	M10H72T36C or F	1,750
	26	M10H62T36C or F	1,750
	29	M10H62T36C or F	1,750
	30	M10H59T36C or F	1,750
	33	M9H53T36C or F	1,750
	39	M9H46T36C or F	1,750
	40	M9H44T36C or F	1,750
	48	M9H37T36C or F	1,750
	52	M8H34T36C or F	1,750
	57	M8H31T36C or F	1,750
	65	M8H27T36C or F	1,750
	77	M8H23T36C or F	1,750
	80	M7H22T36C or F	1,750
	93	M7H19T36C or F	1,750
	124	M7H14T36C or F	1,750

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Class II MTA

Easy selection

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
100	26	M12H68T405F	1,750
	30	M12H58T405F	1,750
	32	M12H55T405F	1,750
	35	M10H51T405F	1,750
	37	M10H48T405F	1,750
	43	M10H41T405F	1,750
	44	M10H40T405F	1,750
	48	M9H37T405F	1,750
	49	M9H36T405F	1,750
	57	M9H31T405F	1,750
	60	M9H29T405F	1,750
	77	M8H23T405F	1,750
	100	M8H17T405F	1,750
	126	M8H14T405F	1,750

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
125	32	M12H55T440F	1,750
	37	M12H48T440F	1,750
	39	M12H45T440F	1,750
	44	M10H40T440F	1,750
	53	M10H33T440F	1,750
	54	M10H32T440F	1,750
	60	M9H29T440F	1,750
	70	M9H25T440F	1,750
	75	M9H23T440F	1,750
	86	M9H21T440F	1,750
	108	M9H16T440F	1,750

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
150	39	M12H45T440F	1,750
	46	M12H38T440F	1,750
	48	M12H37T440F	1,750
	56	M12H31T440F	1,750
	58	M12H30T440F	1,750
	63	M10H28T440F	1,750
	66	M10H26T440F	1,750
	75	M9H23T440F	1,750
	86	M9H20T440F	1,750
	108	M9H16T440F	1,750

Horsepower (hp)	Output speed (rpm)	Reducer	Motor speed (rpm)
200	56	M12H31T440F	1,750
	58	M12H30T440F *	1,750
	68	M12H26T440F	1,750
	73	M12H24T440F	1,750
	83	M12H21T440F	1,750
	90	M12H20T440F	1,750
	95	M12H17T440F	1,750
	119	M12H14T440F	1,750

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MTA2115H

Easy selection

Class I (1.0 service factor)

Output speed (rpm)	Ratio	Class I motor power (hp)	Motor speed	Reducer only part number	C-face gearmotor part number	Service factor
23	76.96	3	1,750	M2H77T18C	M2H77T18C318	1.47
25	71.18	3	1,750	M2H71T18C	M2H71T18C318	1.60
26	66.07	5	1,750	M2H66T18C	M2H66T18C518	1.01
30	58.29	5	1,750	M2H58T18C	M2H58T18C518	1.16
34	51.31	5	1,750	M2H51T18C	M2H51T18C518	1.29
37	47.45	5	1,750	M2H47T18C	M2H47T18C518	1.40
40	44.05	7.5	1,750	M2H44T21C	M2H44T21C718	1.01
45	38.86	7.5	1,750	M2H39T21C	M2H39T21C718	1.12
49	35.88	7.5	1,750	M2H36T21C	M2H36T21C718	1.20
52	66.07	7.5	3,450	M2H66T21C	M2H66T21C736	1.27
54	32.15	7.5	1,750	M2H32T21C	M2H32T21C718	1.31
59	29.64	10	1,750	M2H30T21C	M2H30T21C1018	1.05
67	51.31	10	3,450	M2H51T21C	M2H51T21C1036	1.17
70	24.87	10	1,750	M2H25T21C	M2H25T21C1018	1.21
73	47.45	10	3,450	M2H47T21C	M2H47T21C1036	1.25
78	44.05	10	3,450	M2H44T21C	M2H44T21C1036	1.31
82	21.22	10	1,750	M2H21T21C	M2H21T21C1018	1.37
89	38.86	10	3,450	M2H39T21C	M2H39T21C1036	1.46
96	35.88	15*	3,450	M2H36T25C	M2H36T25C1536	1.03
99	17.68	15	1,750	M2H18T25C	M2H18T25C1518	1.05
107	32.15	15*	3,450	M2H32T25C	M2H32T25C1536	1.11
116	29.64	15*	3,450	M2H30T25C	M2H30T25C1536	1.17
119	14.65	15	1,750	M2H15T25C	M2H15T25C1518	1.05
139	24.87	15*	3,450	M2H25T25C	M2H25T25C1536	1.32
163	21.22	20*	3,450	M2H21T25C	M2H21T25C2036	1.12
195	17.68	20*	3,450	M2H18T25C	M2H18T25C2036	1.28
235	14.65	20*	3,450	M2H15T25C	M2H15T25C2036	1.28

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application.

Class II (1.4 service factor)

Output speed (rpm)	Ratio	Class II motor power (hp)	Motor speed	Reducer only part number	C-face gearmotor part number	Service factor
23	76.96	3	1,750	M2H77T18C	M2H77T18C318	1.47
25	71.18	3	1,750	M2H71T18C	M2H71T18C318	1.60
26	66.07	3	1,750	M2H66T18C	M2H66T18C318	1.68
30	58.29	3	1,750	M2H58T18C	M2H58T18C318	1.94
34	51.31	3	1,750	M2H51T18C	M2H51T18C318	2.16
37	47.45	3	1,750	M2H47T18C	M2H47T18C318	2.33
40	44.05	5	1,750	M2H44T18C	M2H44T18C518	1.51
45	38.86	5	1,750	M2H39T18C	M2H39T18C518	1.68
49	35.88	5	1,750	M2H36T18C	M2H36T18C518	1.80
52	66.07	5	3,450	M2H66T18C	M2H66T18C536	1.90
54	32.15	5	1,750	M2H32T18C	M2H32T18C518	1.96
59	29.64	5	1,750	M2H30T18C	M2H30T18C518	2.11
67	51.31	7.5	3,450	M2H51T21C	M2H51T21C736	1.56
70	24.87	7.5	1,750	M2H25T21C	M2H25T21C718	1.62
73	47.45	7.5	3,450	M2H47T21C	M2H47T21C736	1.66
78	44.05	7.5	3,450	M2H44T21C	M2H44T21C736	1.74
82	21.22	7.5	1,750	M2H21T21C	M2H21T21C718	1.82
89	38.86	10	3,450	M2H39T21C	M2H39T21C1036	1.46
96	35.88	10	3,450	M2H36T21C	M2H36T21C1036	1.54
99	17.68	10	1,750	M2H18T21C	M2H18T21C1018	1.57
107	32.15	10	3,450	M2H32T21C	M2H32T21C1036	1.66
116	29.64	10	3,450	M2H30T21C	M2H30T21C1036	1.76
119	14.65	10	1,750	M2H15T21C	M2H15T21C1018	1.57
139	24.87	10	3,450	M2H25T21C	M2H25T21C1036	1.98
163	21.22	15*	3,450	M2H21T25C	M2H21T25C1536	1.49
195	17.68	15*	3,450	M2H18T25C	M2H18T25C1536	1.71
235	14.65	15*	3,450	M2H15T25C	M2H15T25C1536	1.71

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application. Any Class II gearmotor assembly can be offered with a severe duty motor by adding a “CP” at the end (example: 2018CP).

MTA3203H

Easy selection

Class I (1.0 service factor)

Output speed (rpm)	Ratio	Class I motor power (hp)	Motor speed	Reducer only part number	C-face gearmotor part number	Service factor
23	76.02	5	1,750	M3H76T18C	M3H76T18C518	1.42
25	70.30	5	1,750	M3H70T18C	M3H70T18C518	1.48
27	65.26	7.5	1,750	M3H65T21C	M3H65T21C718	1.04
30	57.58	7.5	1,750	M3H58T21C	M3H58T21C718	1.20
35	50.68	10	1,750	M3H51T21C	M3H51T21C1018	1.01
37	46.87	10	1,750	M3H47T21C	M3H47T21C1018	1.09
40	43.51	10	1,750	M3H44T21C	M3H44T21C1018	1.19
46	38.39	10	1,750	M3H38T21C	M3H38T21C1018	1.31
49	35.44	10	1,750	M3H35T21C	M3H35T21C1018	1.42
53	65.26	10	3,450	M3H65T21C	M3H65T21C1036	1.48
55	31.75	15	1,750	M3H32T25C	M3H32T25C1518	1.02
60	29.28	15	1,750	M3H29T25C	M3H29T25C1518	1.09
68	50.68	15*	3,450	M3H51T25C	M3H51T25C1536	1.18
71	24.57	15	1,750	M3H25T25C	M3H25T25C1518	1.26
74	46.87	15*	3,450	M3H47T25C	M3H47T25C1536	1.30
79	43.51	20*	3,450	M3H44T25C	M3H44T25C2036	1.04
83	20.96	20	1,750	M3H21T25C	M3H21T25C2018	1.08
90	38.39	20*	3,450	M3H38T25C	M3H38T25C2036	1.15
97	35.44	20*	3,450	M3H35T25C	M3H35T25C2036	1.23
100	17.46	20	1,750	M3H17T25C	M3H17T25C2018	1.26
109	31.75	20*	3,450	M3H32T25C	M3H32T25C2036	1.34
118	29.28	20*	3,450	M3H29T25C	M3H29T25C2036	1.40
121	14.47	20	1,750	M3H14T25C	M3H14T25C2018	1.26
140	24.57	30*	3,450	M3H25T28TSC	M3H25T28TSC3036	1.09
165	20.96	30*	3,450	M3H21T28TSC	M3H21T28TSC3036	1.22
198	17.46	30*	3,450	M3H17T28TSC	M3H17T28TSC3036	1.37
238	14.47	30*	3,450	M3H14T28TSC	M3H14T28TSC3036	1.37

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application.

Class II (1.4 service factor)

Output speed (rpm)	Ratio	Class II motor power (hp)	Motor speed	Reducer only part number	C-face gearmotor Part number	Service factor
23	76.02	5	1,750	M3H76T18C	M3H76T18C518	1.42
25	70.30	5	1,750	M3H70T18C	M3H70T18C518	1.48
27	65.26	5	1,750	M3H65T18C	M3H65T18C518	1.56
30	57.58	5	1,750	M3H58T18C	M3H58T18C518	1.80
35	50.68	5	1,750	M3H51T18C	M3H51T18C518	2.03
37	46.87	7.5	1,750	M3H47T21C	M3H47T21C718	1.46
40	43.51	7.5	1,750	M3H44T21C	M3H44T21C718	1.58
46	38.39	7.5	1,750	M3H38T21C	M3H38T21C718	1.74
49	35.44	10	1,750	M3H35T21C	M3H35T21C1018	1.42
53	65.26	10	3,450	M3H65T21C	M3H65T21C1036	1.48
55	31.75	10	1,750	M3H32T21C	M3H32T21C1018	1.53
60	29.28	10	1,750	M3H29T21C	M3H29T21C1018	1.64
68	50.68	10	3,450	M3H51T21C	M3H51T21C1036	1.77
71	24.57	10	1,750	M3H25T21C	M3H25T21C1018	1.89
74	46.87	10	3,450	M3H47T21C	M3H47T21C1036	1.95
79	43.51	15*	3,450	M3H44T25C	M3H44T25C1536	1.38
83	20.96	15	1,750	M3H21T25C	M3H21T25C1518	1.44
90	38.39	15 *	3,450	M3H38T25C	M3H38T25C1536	1.54
97	35.44	15 *	3,450	M3H35T25C	M3H35T25C1536	1.64
100	17.46	15	1,750	M3H17T25C	M3H17T25C1518	1.68
109	31.75	15*	3,450	M3H32T25C	M3H32T25C1536	1.79
118	29.28	15*	3,450	M3H29T25C	M3H29T25C1536	1.86
121	14.47	15	1,750	M3H14T25C	M3H14T25C1518	1.68
140	24.57	20*	3,450	M3H25T25C	M3H25T25C2036	1.64
165	20.96	25*	3,450	M3H21T28TSC	M3H21T28TSC2536	1.47
198	17.46	25*	3,450	M3H17T28TSC	M3H17T28TSC2536	1.64
235	14.47	25*	3,450	M3H14T28TSC	M3H14T28TSC2536	1.64

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application. Any Class II gearmotor assembly can be offered with a severe duty motor by adding a “CP” at the end (example: 2018CP).

MTA4207H

Easy selection

Class I (1.0 service factor)

Output speed (rpm)	Ratio	Class I motor power (hp)	Motor speed	Reducer only part number	C-face gearmotor part number	Service factor
24	73.57	10	1,750	M4H74T21C	M4H74T21C1018	1.15
26	66.17	10	1,750	M4H66T21C	M4H66T21C1018	1.24
29	61.04	10	1,750	M4H61T21C	M4H61T21C1018	1.32
34	51.72	15	1,750	M4H52T25C	M4H52T25C1518	1.04
36	49.04	15	1,750	M4H49T25C	M4H49T25C1518	1.09
40	44.11	15	1,750	M4H44T25C	M4H44T25C1518	1.20
43	40.70	15	1,750	M4H41T25C	M4H41T25C1518	1.27
51	34.48	20	1,750	M4H34T25C	M4H34T25C2018	1.09
58	30.05	20	1,750	M4H30T25C	M4H30T25C2018	1.24
67	51.72	25*	3,450	M4H52T28TSC	M4H52T28TSC2536	1.10
68	25.57	25	1,750	M4H26T28C	M4H26T28C2518	1.13
70	49.04	25*	3,450	M4H49T28TSC	M4H49T28TSC2536	1.16
78	44.11	30*	3,450	M4H44T28TSC	M4H44T28TSC3036	1.06
80	21.82	30	1,750	M4H22T28C	M4H22T28C3018	1.08
85	40.70	30*	3,450	M4H41T28TSC	M4H41T28TSC3036	1.13
98	17.89	30	1,750	M4H18T28C	M4H18T28C3018	1.29
100	34.48	30*	3,450	M4H34T28TSC	M4H34T28TSC3036	1.31
115	30.05	30*	3,450	M4H30T28TSC	M4H30T28TSC3036	1.39
122	14.35	30	1,750	M4H14T28C	M4H14T28C3018	1.29
135	25.57	40*	3,450	M4H26T32TSC	M4H26T32TSC4036	1.18
158	21.82	50*	3,450	M4H22T32TSC	M4H22T32TSC5036	1.06
193	17.89	50*	3,450	M4H18T32TSC	M4H18T32TSC5036	1.19

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application.

Class II (1.4 service factor)

Output speed (rpm)	Ratio	Class II motor power (hp)	Motor speed	Reducer only part number	C-face gearmotor part number	Service factor
24	73.57	7.5	1,750	M4H74T21C	M4H74T21C718	1.53
26	66.17	7.5	1,750	M4H66T21C	M4H66T21C718	1.65
29	61.04	7.5	1,750	M4H61T21C	M4H61T21C718	1.76
34	51.72	10	1,750	M4H52T21C	M4H52T21C1018	1.56
36	49.04	10	1,750	M4H49T21C	M4H49T21C1018	1.64
40	44.11	10	1,750	M4H44T21C	M4H44T21C1018	1.80
43	40.70	10	1,750	M4H41T21C	M4H41T21C1018	1.90
47	73.57	10	3,450	M4H74T21C	M4H74T21C1036	2.03
51	34.48	15	1,750	M4H34T25C	M4H34T25C1518	1.45
58	30.05	15	1,750	M4H30T25C	M4H30T25C1518	1.65
68	25.57	20	1,750	M4H26T25C	M4H26T25C2018	1.42
70	49.04	20*	3,450	M4H49T25C	M4H49T25C2036	1.45
78	44.11	20*	3,450	M4H44T25C	M4H44T25C2036	1.59
80	21.82	20	1,750	M4H22T25C	M4H22T25C2018	1.63
85	40.70	20*	3,450	M4H41T25C	M4H41T25C2036	1.69
98	17.89	25	1,750	M4H18T28C	M4H18T28C2518	1.54
100	34.48	25*	3,450	M4H34T28TSC	M4H34T28TSC2536	1.57
115	30.05	25*	3,450	M4H30T28TSC	M4H30T28TSC2536	1.72
122	14.35	25	1,750	M4H14T28C	M4H14T28C2518	1.54
135	25.57	30*	3,450	M4H26T28TSC	M4H26T28TSC3036	1.58
158	21.82	30*	3,450	M4H22T28TSC	M4H22T28TSC3036	1.76
193	17.89	40*	3,450	M4H18T32TSC	M4H18T32TSC4036	1.48

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application. Any Class II gearmotor assembly can be offered with a severe duty motor by adding a “CP” at the end (example: 2018CP).

MTA5215H

Easy selection

Class I (1.0 service factor)

Output speed (rpm)	Ratio	Class I motor power (hp)	Motor speed	Reducer only part number	C-face gearmotor part number	Service factor
24	71.98	15	1,750	M5H72T25C	M5H72T25C1518	1.28
27	64.74	20	1,750	M5H65T25C	M5H65T25C2018	1.04
29	59.73	20	1,750	M5H60T25C	M5H60T25C2018	1.15
35	50.61	25	1,750	M5H51T28C	M5H51T28C2518	1.07
36	47.99	25	1,750	M5H48T28C	M5H48T28C2518	1.13
41	43.16	30	1,750	M5H43T28C	M5H43T28C3018	1.04
44	39.82	30	1,750	M5H40T28C	M5H40T28C3018	1.10
48	71.98	30*	3,450	M5H72T28TSC	M5H72T28TSC3036	1.19
52	33.74	30	1,750	M5H34T28C	M5H34T28C3018	1.29
58	59.73	40*	3,450	M5H60T32TSC	M5H60T32TSC4036	1.07
60	29.41	40	1,750	M5H29T32C	M5H29T32C4018	1.09
68	50.61	40*	3,450	M5H51T32TSC	M5H51T32TSC4036	1.24
70	25.05	50	1,750	M5H25T32C	M5H25T32C5018	1.01
72	47.99	50*	3,450	M5H48T32TSC	M5H48T32TSC5036	1.04
80	43.16	50*	3,450	M5H43T32TSC	M5H43T32TSC5036	1.14
82	21.35	50	1,750	M5H21T32C	M5H21T32C5018	1.17
87	39.82	50*	3,450	M5H40T32TSC	M5H40T32TSC5036	1.20
100	17.50	60	1,750	M5H18T36C	M5H18T36C6018	1.08
102	33.74	60*	3,450	M5H34T36TSC	M5H34T36TSC6036	1.10
117	29.41	60*	3,450	M5H29T36TSC	M5H29T36TSC6036	1.18
125	14.05	60	1,750	M5H14T36C	M5H14T36C6018	1.08
138	25.05	60*	3,450	M5H25T36TSC	M5H25T36TSC6036	1.29
162	21.35	60*	3,450	M5H21T36TSC	M5H21T36TSC6036	1.35
197	17.50	60*	3,450	M5H18T36TSC	M5H18T36TSC6036	1.42

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application.

Class II (1.4 service factor)

Output speed (rpm)	Ratio	Class II motor power (hp)	Motor speed	Reducer only part number	C-face gearmotor part number	Service factor
24	71.98	10	1,750	M5H72T21C	M5H72T21C1018	1.92
27	64.74	10	1,750	M5H65T21C	M5H65T21C1018	2.08
29	59.73	15	1,750	M5H60T25C	M5H60T25C1518	1.53
35	50.61	15	1,750	M5H51T25C	M5H51T25C1518	1.78
36	47.99	15	1,750	M5H48T25C	M5H48T25C1518	1.88
41	43.16	20	1,750	M5H43T25C	M5H43T25C2018	1.55
44	39.82	20	1,750	M5H40T25C	M5H40T25C2018	1.65
48	71.98	25*	3,450	M5H72T28TSC	M5H72T28TSC2536	1.43
52	33.74	25	1,750	M5H34T28C	M5H34T28C2518	1.55
58	59.73	30*	3,450	M5H60T28TSC	M5H60T28TSC3036	1.43
60	29.41	30	1,750	M5H29T28C	M5H29T28C3018	1.45
68	50.61	30*	3,450	M5H51T28TSC	M5H51T28TSC3036	1.66
70	25.05	30	1,750	M5H25T28C	M5H25T28C3018	1.68
72	47.99	30*	3,450	M5H48T28TSC	M5H48T28TSC3036	1.73
80	43.16	30*	3,450	M5H43T28TSC	M5H43T28TSC3036	1.90
82	21.35	40	1,750	M5H21T32C	M5H21T32C4018	1.46
87	39.82	40*	3,450	M5H40T32TSC	M5H40T32TSC4036	1.50
100	17.50	40	1,750	M5H18T32C	M5H18T32C4018	1.62
102	33.74	40*	3,450	M5H34T32TSC	M5H34T32TSC4036	1.64
117	29.41	40*	3,450	M5H29T32TSC	M5H29T32TSC4036	1.77
125	14.05	40	1,750	M5H14T32C	M5H14T32C4018	1.62
138	25.05	50*	3,450	M5H25T32TSC	M5H25T32TSC5036	1.55
162	21.35	50*	3,450	M5H21T32TSC	M5H21T32TSC5036	1.62
197	17.50	50*	3,450	M5H18T32TSC	M5H18T32TSC5036	1.71

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application. Any Class II gearmotor assembly can be offered with a severe duty motor by adding a “CP” at the end (example: 2018CP).

MTA6307H

Easy selection

Class I (1.0 service factor)

Output speed (rpm)	Ratio	Class I motor power (hp)	Motor speed	Reducer only part number	C-face gearmotor part number	Service factor
23	78.53	20	1,750	M6H79T25C	M6H79T25C2018	1.18
26	66.92	25	1,750	M6H67T28C	M6H67T28C2518	1.10
30	59.05	30	1,750	M6H59T28C	M6H59T28C3018	1.05
34	52.35	30	1,750	M6H52T28C	M6H52T28C3018	1.14
39	50.26	30	1,750	M6H50T28C	M6H50T28C3018	1.21
46	44.61	30	1,750	M6H45T28C	M6H45T28C3018	1.33
52	39.37	40	1,750	M6H39T32C	M6H39T32C4018	1.12
61	33.51	50	1,750	M6H34T32C	M6H34T32C5018	1.04
68	59.05	50*	3,450	M6H59T32TSC	M6H59T32TSC5036	1.15
78	29.03	50	1,750	M6H29T32C	M6H29T32C5018	1.19
80	52.35	60*	3,450	M6H52T36TSC	M6H52T36TSC6036	1.08
90	50.26	60*	3,450	M6H50T36TSC	M6H50T36TSC6036	1.12
93	24.43	60	1,750	M6H24T36C	M6H24T36C6018	1.16
103	44.61	60*	3,450	M6H45T36TSC	M6H45T36TSC6036	1.24
120	22.04	60	1,750	M6H22T36C	M6H22T36C6018	1.27
124	39.37	75*	3,450	M6H39T36TSC	M6H39T36TSC7536	1.11
134	18.95	75*	1,750	M6H19T36C	M6H19T36C7518	1.15
103	33.51	75*	3,450	M6H34T36TSC	M6H34T36TSC7536	1.26
119	29.03	75*	3,450	M6H29T36TSC	M6H29T36TSC7536	1.41
123	14.24	75*	1,750	M6H14T36C	M6H14T36C7518	1.15
141	24.43	75*	3,450	M6H24T36TSC	M6H24T36TSC7536	1.60
157	22.04	75*	3,450	M6H22T36TSC	M6H22T36TSC7536	1.72

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application.

Class II (1.4 service factor)

Output speed (rpm)	Ratio	Class II motor power (hp)	Motor speed	Reducer only part number	C-face gearmotor part number	Service factor
22	78.53	15	1,750	M6H79T25C	M6H79T25C1518	1.57
26	66.92	15	1,750	M6H67T25C	M6H67T25C1518	1.84
30	59.05	20	1,750	M6H59T25C	M6H59T25C2018	1.57
33	52.35	20	1,750	M6H52T25C	M6H52T25C2018	1.72
35	50.26	25	1,750	M6H50T28C	M6H50T28C2518	1.45
39	44.61	25	1,750	M6H45T28C	M6H45T28C2518	1.59
44	39.37	30	1,750	M6H39T28C	M6H39T28C3018	1.49
52	33.51	30	1,750	M6H34T28C	M6H34T28C3018	1.74
58	59.05	40*	3,450	M6H59T32TSC	M6H59T32TSC4036	1.44
60	29.03	40	1,750	M6H29T32C	M6H29T32C4018	1.48
66	52.35	40*	3,450	M6H52T32TSC	M6H52T32TSC4036	1.62
69	50.26	40*	3,450	M6H50T32TSC	M6H50T32TSC4036	1.68
72	24.43	50	1,750	M6H24T32C	M6H24T32C5018	1.40
77	44.61	50*	3,450	M6H45T32TSC	M6H45T32TSC5036	1.49
79	22.04	50	1,750	M6H22T32C	M6H22T32C5018	1.52
88	39.37	50*	3,450	M6H39T32TSC	M6H39T32TSC5036	1.66
92	18.95	60	1,750	M6H19T36C	M6H19T36C6018	1.43
103	33.51	60*	3,450	M6H34T36TSC	M6H34T36TSC6036	1.57
119	29.03	60*	3,450	M6H29T36TSC	M6H29T36TSC6036	1.75
123	14.24	60	1,750	M6H14T36C	M6H14T36C6018	1.43
141	24.43	75*	3,450	M6H24T36TSC	M6H24T36TSC7536	1.60
157	22.04	75*	3,450	M6H22T36TSC	M6H22T36TSC7536	1.72

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application. Any Class II gearmotor assembly can be offered with a severe duty motor by adding a “CP” at the end (example: 2018CP).

MTA7315H

Easy selection

Class I (1.0 service factor)

Output speed (rpm)	Ratio	Class I motor power (hp)	Motor speed	Reducer for C-face motor part number	Reducer for foot-mounted motor part number	C-face gearmotor part number	Foot-mounted gearmotor part number	Service factor
23	76.46	30	1,750	M7H76T28C	—	M7H76T28C3018	—	1.22
26	66.57	40	1,750	M7H67T32C	—	M7H67T32C4018	—	1.04
30	57.58	40	1,750	M7H58T32C	—	M7H58T32C4018	—	1.18
34	50.97	50	1,750	M7H51T32C	—	M7H51T32C5018	—	1.08
39	44.38	60	1,750	M7H44T36C *	M7H44T36F ^	M7H44T36C6018 *	M7H44T36F6018 ^	1.02
46	38.39	60	1,750	M7H38T36C *	M7H38T36F ^	M7H38T36C6018 *	M7H38T36F6018 ^	1.15
52	33.48	75	1,750	M7H33T36C *	M7H33T36F ^	M7H33T36C7518 *	M7H33T36F7518 ^	1.04
61	28.65	75	1,750	M7H29T36C *	M7H29T36F ^	M7H29T36C7518 *	M7H29T36F7518 ^	1.20
68	25.66	75	1,750	M7H26T36C *	M7H26T36F ^	M7H26T36C7518 *	M7H26T36F7518 ^	1.29
78	44.38	75	3,450	M7H44T36TSC *	—	M7H44T36TSC7536 *	—	1.49
80	21.74	75	1,750	M7H22T36C *	M7H22T36F ^	M7H22T36C7518 *	M7H22T36F7518 ^	1.53
90	38.39	75	3,450	M7H38T36TSC *	—	M7H38T36TSC7536 *	—	1.71
93	18.77	75	1,750	M7H19T36C *	M7H19T36F ^	M7H19T36C7518 *	M7H19T36F7518 ^	1.73
103	33.48	75	3,450	M7H33T36TSC *	—	M7H33T36TSC7536 *	—	1.87
120	28.65	75	3,450	M7H29T36TSC *	—	M7H29T36TSC7536 *	—	2.09
124	14.11	75	1,750	M7H14T36C *	M7H14T36F ^	M7H14T36C7518 *	M7H14T36F7518 ^	1.73
134	25.66	75	3,450	M7H26T36TSC *	—	M7H26T36TSC7536 *	—	2.25

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application. This reducer motor combination may require the optional electric fan for the 60—75 hp motor. Avoid position “D”.
^ On foot-mounted 60—75 hp gearmotor packages, tie rods will be shipped unassembled, they will need to be assembled on site.
Thermal considerations are based on a max ambient temperature of 100 °F.

Class II (1.4 service factor)

Output speed (rpm)	Ratio	Class II motor power (hp)	Motor speed	C-face motor part number	Footed motor part number	C-face gearmotor part number	Footed gearmotor part number	Service factor
23	76.46	25	1,750	M7H76T28C	—	M7H76T28C2518	—	1.47
26	66.57	25	1,750	M7H67T28C	—	M7H67T28C2518	—	1.67
30	57.58	30	1,750	M7H58T28C	—	M7H58T28C3018	—	1.58
34	50.97	30	1,750	M7H51T28C	—	M7H51T28C3018	—	1.79
39	44.38	40	1,750	M7H44T32C	—	M7H44T32C4018	—	1.52
46	38.39	40	1,750	M7H38T32C	—	M7H38T32C4018	—	1.73
52	33.48	50	1,750	M7H33T32C	—	M7H33T32C5018	—	1.54
61	28.65	60	1,750	M7H29T36C *	M7H29T36F ^	M7H29T36C6018 *	M7H29T36F6018 ^	1.50
68	25.66	60	1,750	M7H26T36C *	M7H26T36F ^	M7H26T36C6018 *	M7H26T36F6018 ^	1.65
78	44.38	75	3,450	M7H44T36TSC *	—	M7H44T36TSC7536 *	—	1.49
80	21.74	75	1,750	M7H22T36C *	M7H22T36F ^	M7H22T36C7518 *	M7H22T36F7518 ^	1.53
90	38.39	75	3,450	M7H38T36TSC *	—	M7H38T36TSC7536 *	—	1.71
93	18.77	75	1,750	M7H19T36C *	M7H19T36F ^	M7H19T36C7518 *	M7H19T36F7518 ^	1.73
103	33.48	75	3,450	M7H33T36TSC *	—	M7H33T36TSC7536 *	—	1.87
120	28.65	75	3,450	M7H29T36TSC *	—	M7H29T36TSC7536 *	—	2.09
124	14.11	75	1,750	M7H14T36C *	M7H14T36F ^	M7H14T36C7518 *	M7H14T36F7518 ^	1.73
134	25.66	75	3,450	M7H26T36TSC *	—	M7H26T36TSC7536 *	—	2.25

* Consult Dodge Engineering for thermal considerations of application. This reducer-motor combination may require additional cooling in C-face configuration, if electric fan not available, customer may need to add cooling or gearbox may run hot (3,600 rpm input speed especially). Avoid position “D”.
^ On foot-mounted 60—75 hp gearmotor packages, tie rods will be shipped unassembled, they will need to be assembled on site.
Thermal considerations are based on a max ambient temperature of 100 °F.
Any Class II C-face gearmotor assembly can be offered with a severe-duty motor by adding a “CP” at the end (example: 2018CP).
For reducer dimensions and accessories, see pages G2-30 through G2-60.

MTA8407H

Easy selection

Class I (1.0 service factor)

Output speed (rpm)	Ratio	Class I motor power (hp)	Motor speed	C-face motor part number	Footed motor part number	C-face gearmotor part number	Footed gearmotor part number	Service factor
22	78.80	50	1,750	M8H79T32C	—	M8H79T32C5018	—	1.02
26	68.53	50	1,750	M8H69T32C	—	M8H69T32C5018	—	1.16
29	60.13	60	1,750	M8H60T36C *	M8H60T36F ^	M8H60T36C6018 *	M8H60T36F6018 ^	1.08
33	52.53	60	1,750	M8H53T36C *	M8H53T36F ^	M8H53T36C6018 *	M8H53T36F6018 ^	1.24
34	50.85	75	1,750	M8H51T36C *	M8H51T36F ^	M8H51T36C7518 *	M8H51T36F7518 ^	1.01
38	45.69	75	1,750	M8H46T36C *	M8H46T36F ^	M8H46T36C7518 *	M8H46T36F7518 ^	1.12
44	40.09	75	1,750	M8H40T36C *	M8H40T36F ^	M8H40T36C7518 *	M8H40T36F7518 ^	1.28
50	68.53	100*	3,450	M8H69T405TSC *	—	—	—	1.08
52	33.90	100	1,750	M8H34T405C *	M8H34T405F ^	M8H34T405C10018 *	M8H34T405F10018 ^	1.10
57	30.76	100	1,750	M8H31T405C *	M8H31T405F ^	M8H31T405C10018 *	M8H31T405F10018 ^	1.20
57	60.13	100*	3,450	M8H60T405TSC *	—	—	—	1.21
65	26.82	100	1,750	M8H27T405C *	M8H27T405F ^	M8H27T405C10018 *	M8H27T405F10018 ^	1.36
68	50.85	100*	3,450	M8H51T405TSC *	—	—	—	1.41
76	45.69	100*	3,450	M8H46T405TSC *	—	—	—	1.55
77	22.77	100	1,750	M8H23T405C *	M8H23T405F ^	M8H23T405C10018 *	M8H23T405F10018 ^	1.56
86	40.09	100*	3,450	M8H40T405TSC *	—	—	—	1.74
100	17.43	100	1,750	M8H17T405C *	M8H17T405F ^	M8H17T405C10018 *	M8H17T405F10018 ^	2.02
102	33.90	100*	3,450	M8H34T405TSC *	—	—	—	2.04
112	30.76	100*	3,450	M8H31T405TSC *	—	—	—	2.21
128	13.93	100	1,750	M8H14T405C *	M8H17T405F ^	M8H17T405C10018 *	M8H17T405F10018 ^	2.02

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application. This reducer motor combination may require the optional electric fan for the 60-100 hp motor. Avoid position "D".
^ On foot-mounted 60—100 horsepower gearmotor packages, tie rods will be shipped unassembled, they will need to be assembled on site.
Thermal considerations are based on a max ambient temperature of 100 °F.

Class II (1.4 service factor)

Output speed (rpm)	Ratio	Class II motor power (hp)	Motor speed	C-face motor part number	Footed motor part number	C-face gearmotor part number	Footed gearmotor part number	Service factor
22	78.80	30	1,750	M8H79T28C	—	M8H79T28C3018	—	1.69
26	68.53	40	1,750	M8H69T32C	—	M8H69T32C4018	—	1.45
29	60.13	40	1,750	M8H60T32C	—	M8H60T32C4018	—	1.62
33	52.53	50	1,750	M8H53T32C	—	M8H53T32C5018	—	1.49
34	50.85	50	1,750	M8H51T32C	—	M8H51T32C5018	—	1.52
38	45.69	60	1,750	M8H46T36C *	M8H46T36F ^	M8H46T36C6018 *	M8H46T36F6018 ^	1.40
44	40.09	60	1,750	M8H40T36C *	M8H40T36F ^	M8H40T36C6018 *	M8H40T36F6018 ^	1.60
50	68.53	75	3,450	M8H69T36TSC *	—	M8H69T36TSC7536 *	—	1.45
52	33.90	75	1,750	M8H34T36C *	M8H34T36F ^	M8H34T36C7518 *	M8H34T36F7518 ^	1.47
57	30.76	75	1,750	M8H31T36C *	M8H31T36F ^	M8H31T36C7518 *	M8H31T36F7518 ^	1.60
65	26.82	75	1,750	M8H27T36C *	M8H27T36F ^	M8H27T36C7518 *	M8H27T36F7518 ^	1.81
68	50.85	100*	3,450	M8H51T405TSC *	—	—	—	1.41
76	45.69	100*	3,450	M8H46T405TSC *	—	—	—	1.55
77	22.77	100	1,750	M8H23T405C *	M8H23T405F ^	M8H23T405C10018 *	M8H23T405F10018 ^	1.56
86	40.09	100*	3,450	M8H40T405TSC *	—	—	—	1.74
100	17.43	100	1,750	M8H17T405C *	M8H17T405F ^	M8H17T405C10018 *	M8H17T405F10018 ^	2.02
102	33.90	100*	3,450	M8H34T405TSC *	—	—	—	2.04
112	30.76	100*	3,450	M8H31T405TSC *	—	—	—	2.21
128	13.93	100	1,750	M8H14T405C *	M8H17T405F ^	M8H17T405C10018 *	M8H17T405F10018 ^	2.02

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application. This reducer-motor combination may require additional cooling in C-face configuration, if electric fan is not available, the customer may need to add cooling or gearbox may run hot (3600 rpm input speed especially). Avoid position "D".
^ On foot-mounted 60—100 horsepower gearmotor packages, tie rods will be shipped unassembled, they will need to be assembled on site. Thermal considerations are based on a max ambient temperature of 100 °F. Any Class II C-face gearmotor assembly can be offered with a severe duty motor by adding a "CP" at the end (example 2018CP).

MTA9415H

Easy selection

Class I (1.0 service factor)

Output speed (rpm)	Ratio	Class I motor power (hp)	Motor speed	C-face motor part number	Footed motor part number	C-face gearmotor part number	Footed gearmotor part number	Service factor
15	119.56	40	1,750	M9H120T32C	—	M9H120T32C4018 (B or W)	—	1.14
18	96.42	50	1,750	M9H96T32C	—	M9H96T32C5018 (B or W)	—	1.17
21	83.70	60	1,750	M9H84T36C	M9H84T36F ^	M9H84T36C6018 (B or W)	M9H84T36F6018 (B or W) ^	1.07
22	79.89	60	1,750	M9H80T36C	M9H80T36F ^	M9H80T36C6018 (B or W)	M9H80T36F6018 (B or W) ^	1.17
26	67.50	75	1,750	M9H68T36C	M9H68T36F ^	M9H68T36C7518 (B or W)	M9H68T36F7518 (B or W) ^	1.03
27	64.79	75	1,750	M9H65T36C	M9H65T36F ^	M9H65T36C7518 (B or W)	M9H65T36F7518 (B or W) ^	1.11
31	55.93	75	1,750	M9H56T36C	M9H56T36F ^	M9H56T36C7518 (B or W)	M9H56T36F7518 (B or W) ^	1.28
33	52.53	100	1,750	M9H53T405C *	M9H53T405F ^	M9H53T405C10018 (B or W) *	M9H53T405F10018 (B or W) ^	1.01
39	45.36	100	1,750	M9H46T405C *	M9H46T405F ^	M9H46T405C10018 (B or W) *	M9H46T405F10018 (B or W) ^	1.18
40	43.83	100	1,750	M9H44T405C *	M9H44T405F ^	M9H44T405C10018 (B or W) *	M9H44T405F10018 (B or W) ^	1.22
48	36.77	125	1,750	—	M9H37T440F ^	—	M9H37T440F12518 (B or W) ^	1.17
49	35.52	125	1,750	—	M9H36T440F ^	—	M9H36T440F12518 (B or W) ^	1.18
57	30.69	150	1,750	—	M9H31T440F ^	—	M9H31T440F15018 (B or W) ^	1.12
60	29.16	150	1,750	—	M9H29T440F ^	—	M9H29T440F15018 (B or W) ^	1.17
70	24.87	150	1,750	—	M9H25T440F ^	—	M9H25T440F15018 (B or W) ^	1.37
75	23.22	150	1,750	—	M9H23T440F ^	—	M9H23T440F15018 (B or W) ^	1.44
86	20.41	150	1,750	—	M9H21T440F ^	—	M9H21T440F15018 (B or W) ^	1.58
108	16.25	150	1,750	—	M9H16T440F ^	—	M9H16T440F15018 (B or W) ^	1.84

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application.
^ On all C-face, and foot-mounted 60—150 hp gearbox or gearmotor packages, the tie rods or tie rod reaction beams will be shipped unassembled, they will need to be assembled on site, contact Dodge with any questions. Thermal considerations are based on a max ambient temperature of 100 °F. Gearmotor assemblies are either 'B' Baldor ECP/CECP, or 'W' Weg W22motors, example M9H56T36C6018B is a Baldor CECP motor assembly and M9H56T36C6018W is a WEG W22.

Class II (1.4 service factor)

Output speed (rpm)	Ratio	Class II motor power (hp)	Motor speed	C-face motor part number	Footed motor part number	C-face gearmotor part number	Footed gearmotor part number	Service factor
15	119.56	30	1,750	M9H120T28C	—	M9H120T28C3018 (B or W)	—	1.51
18	96.42	40	1,750	M9H96T32C	—	M9H96T32C4018 (B or W)	—	1.46
21	83.70	40	1,750	M9H84T32C	—	M9H84T32C4018 (B or W)	—	1.61
22	79.89	50	1,750	M9H80T32C	—	M9H80T32C5018 (B or W)	—	1.40
26	67.50	50	1,750	M9H68T32C	—	M9H68T32C5018 (B or W)	—	1.54
27	64.79	50	1,750	M9H65T32C	—	M9H65T32C5018 (B or W)	—	1.66
31	55.93	60	1,750	M9H56T36C	M9H56T36F ^	M9H56T36C6018 (B or W)	M9H56T36F6018 (B or W) ^	1.60
33	52.53	60	1,750	M9H53T36C	M9H53T36F ^	M9H53T36C6018 (B or W)	M9H53T36F6018 (B or W) ^	1.68
39	45.36	75	1,750	M9H46T36C	M9H46T36F ^	M9H46T36C7518 (B or W)	M9H46T36F7518 (B or W) ^	1.57
40	43.83	75	1,750	M9H44T36C	M9H44T36F ^	M9H44T36C7518 (B or W)	M9H44T36F7518 (B or W) ^	1.62
48	36.77	100	1,750	M9H37T405C *	M9H37T405F ^	M9H37T405C10018 (B or W) *	M9H37T405F10018 (B or W) ^	1.46
49	35.52	100	1,750	M9H36T405C *	M9H36T405F ^	M9H36T405C10018 (B or W) *	M9H36T405F10018 (B or W) ^	1.47
57	30.69	100	1,750	M9H31T405C *	M9H31T405F ^	M9H31T405C10018 (B or W) *	M9H31T405F10018 (B or W) ^	1.68
60	29.16	125	1,750	—	M9H29T440F ^	—	M9H29T440F12518 (B or W) ^	1.41
70	24.87	125	1,750	—	M9H25T440F ^	—	M9H25T440F12518 (B or W) ^	1.65
75	23.22	150	1,750	—	M9H23T440F ^	—	M9H23T440F15018 (B or W) ^	1.44
86	20.41	150	1,750	—	M9H21T440F ^	—	M9H21T440F15018 (B or W) ^	1.58
108	16.25	150	1,750	—	M9H16T440F ^	—	M9H16T440F15018 (B or W) ^	1.84

* Consult Dodge Engineering for thermal considerations of application. This reducer motor combination may require the optional electric fan.
^ On all C-face, and foot-mounted 60—150 hp gearbox or gearmotor packages, the tie rods or tie rod reaction beams will be shipped unassembled, they will need to be assembled on site, contact Dodge with any questions. Avoid position "D".
Thermal considerations are based on a max ambient temperature of 100 °F.
Gearmotor assemblies are either 'B' Baldor ECP/CECP, or 'W' Weg W22motors, ex.. M9H56T36C6018B is a Baldor CECP motor assembly and M9H56T36C6018W is a WEG W22.
For reducer dimensions and accessories, see pages G2-30 through G2-60

MTA10507H

Easy selection

Class I (1.0 service factor)

Output speed (rpm)	Ratio	Class I motor power (hp)	Motor speed	C-face motor part number	Footed motor part number	C-face gearmotor part number	Footed gearmotor part number	Service factor
16	108.35	60	1,750	M10H108T36C	M10H108T36F ^	M10H108T36C6018 (B or W)	M10H108T36F6018 (B or W) ^	1.23
20	87.38	75	1,750	M10H87T36C *	M10H87T36F ^	M10H87T36C7518 (B or W)	M10H87T36F7518 (B or W) ^	1.20
23	75.85	75	1,750	M10H76T36C	M10H76T36F ^	M10H76T36C7518 (B or W)	M10H76T36F7518 (B or W) ^	1.36
24	72.40	100	1,750	M10H72T405C *	M10H72T405F ^	M10H72T405C10018 (B or W) *	M10H72T405F10018 (B or W) ^	1.07
29	61.17	100	1,750	M10H62T405C *	M10H62T405F ^	M10H62T405C10018 (B or W) *	M10H62T405F10018 (B or W) ^	1.25
30	58.72	125	1,750	—	M10H59T440F ^	—	M10H59T440F12518 (B or W) ^	1.04
35	50.69	125	1,750	—	M10H51T440F ^	—	M10H51T440F12518 (B or W) ^	1.19
37	47.60	150	1,750	—	M10H48T440F ^	—	M10H48T440F15018 (B or W) ^	1.05
43	41.11	150	1,750	—	M10H41T440F ^	—	M10H41T440F15018 (B or W) ^	1.19
44	39.72	150	1,750	—	M10H40T440F ^	—	M10H40T440F15018 (B or W) ^	1.24
53	33.33	150	1,750	—	M10H33T440F ^	—	M10H33T440F15018 (B or W) ^	1.36
54	32.19	150	1,750	—	M10H32T440F ^	—	M10H32T440F15018 (B or W) ^	1.40
63	27.81	150	1,750	—	M10H28T440F ^	—	M10H28T440F15018 (B or W) ^	1.58
66	26.42	150	1,750	—	M10H26T440F ^	—	M10H26T440F15018 (B or W) ^	1.65
78	22.54	150	1,750	—	M10H23T440F ^	—	M10H23T440F15018 (B or W) ^	1.89
83	21.04	150	1,750	—	M10H21T440F ^	—	M10H21T440F15018 (B or W) ^	2.15
95	18.50	150	1,750	—	M10H19T440F ^	—	M10H19T440F15018 (B or W) ^	2.19
119	14.73	150	1,750	—	M10H15T440F ^	—	M10H15T440F15018 (B or W) ^	2.57

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application. This reducer motor combination may require the optional electric fan. Avoid position “D”.
^ On all C-face, and foot-mounted 60—150 hp gearbox or gearmotor packages, the tie rods or tie rod reaction beams will be shipped unassembled, they will need to be assembled on site, contact Dodge with any questions. Thermal considerations are based on a max ambient temperature of 100 °F. Gearmotor assemblies are either ‘B’ Baldor ECP/CECP, or ‘W’ Weg W22motors, example M9H56T36C6018B is a Baldor CECP motor assembly and M9H56T36C6018W is a WEG W22.

Class II (1.4 service factor)

Output speed (rpm)	Ratio	Class II motor power (hp)	Motor speed	C-face motor part number	Footed motor part number	C-face gearmotor part number	Footed gearmotor part number	Service factor
16	108.35	50	1,750	M10H108T32C	—	M10H108T32C5018 (B or W)	—	1.48
20	87.38	60	1,750	M10H87T36C	M10H87T36F ^	M10H87T36C6018 (B or W)	M10H87T36F6018 (B or W) ^	1.50
23	75.85	60	1,750	M10H76T36C	M10H76T36F ^	M10H76T36C6018 (B or W)	M10H76T36F6018 (B or W) ^	1.70
24	72.40	60	1,750	M10H72T36C	M10H72T36F ^	M10H72T36C6018 (B or W)	M10H72T36F6018 (B or W) ^	1.78
29	61.17	75	1,750	M10H62T36C	M10H62T36F ^	M10H62T36C7518 (B or W)	M10H62T36F7518 (B or W) ^	1.67
30	58.72	75	1,750	M10H59T36C	M10H59T36F ^	M10H59T36C7518 (B or W)	M10H59T36F7518 (B or W) ^	1.73
35	50.69	75	1,750	M10H51T36C	M10H51T36F ^	M10H51T36C7518 (B or W)	M10H51T36F7518 (B or W) ^	1.98
37	47.60	100	1,750	M10H48T405C *	M10H48T405F ^	M10H48T405C10018 (B or W) *	M10H48T405F10018 (B or W) ^	1.57
43	41.11	100	1,750	M10H41T405C *	M10H41T405F ^	M10H41T405C10018 (B or W) *	M10H41T405F10018 (B or W) ^	1.79
44	39.72	125	1,750	—	M10H40T440F ^	—	M10H40T440F12518 (B or W) ^	1.48
53	33.33	125	1,750	—	M10H33T440F ^	—	M10H33T440F12518 (B or W) ^	1.63
54	32.19	125	1,750	—	M10H32T440F ^	—	M10H32T440F12518 (B or W) ^	1.68
63	27.81	150	1,750	—	M10H28T440F ^	—	M10H28T440F15018 (B or W) ^	1.58
66	26.42	150	1,750	—	M10H26T440F ^	—	M10H26T440F15018 (B or W) ^	1.65
78	22.54	150	1,750	—	M10H23T440F ^	—	M10H23T440F15018 (B or W) ^	1.89
83	21.04	150	1,750	—	M10H21T440F ^	—	M10H21T440F15018 (B or W) ^	2.15
95	18.50	150	1,750	—	M10H19T440F ^	—	M10H19T440F15018 (B or W) ^	2.19
119	14.73	150	1,750	—	M10H15T440F ^	—	M10H15T440F15018 (B or W) ^	2.57

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application. This reducer motor combination may require the optional electric fan.
^ On all C-face, and foot-mounted 60—150 hp gearbox or gearmotor packages, the tie rods or tie rod reaction beams will be shipped unassembled, they will need to be assembled on site, contact Dodge with any questions. Avoid position “D”. Thermal considerations are based on a max ambient temperature of 100 °F. Gearmotor assemblies are either ‘B’ Baldor ECP/CECP, or ‘W’ Weg W22motors, example M9H56T36C6018B is a Baldor CECP motor assembly and M9H56T36C6018W is a WEG W22.

MTA12608H

Easy selection

Class I (1.0 service factor)

Output speed (rpm)	Ratio	Class I motor power (hp)	Motor speed	C-face motor part number	Footed motor part number	C-face gearmotor part number	Footed gearmotor part number	Service factor
17	101.55	75	1,750	M12H102T36C *	M12H102T36F ^	M12H102T36C7518 (B or W) *	M12H102T36F7518 (B or W) ^	1.22
21	82.95	100	1,750	M12H83T405C *	M12H83T405F ^	M12H83T405C10018 (B or W) *	M12H83T405F10018 (B or W) ^	1.14
25	71.09	125	1,750	—	M12H71T440F ^	—	M12H71T440F12518 (B or W) ^	1.10
26	67.82	125	1,750	—	M12H68T440F ^	—	M12H68T440F12518 (B or W) ^	1.19
30	58.07	150	1,750	—	M12H58T440F ^	—	M12H58T440F15018 (B or W) ^	1.14
32	54.76	150	1,750	—	M12H55T440F ^	—	M12H55T440F15018 (B or W) ^	1.22
37	47.48	200	1,750	—	M12H48T440F ^	—	M12H48T440F20018 (B or W) ^	1.03
39	44.55	200	1,750	—	M12H45T440F ^	—	M12H45T440F20018 (B or W) ^	1.09
46	38.33	200	1,750	—	M12H38T440F ^	—	M12H38T440F20018 (B or W) ^	1.26
48	36.56	200	1,750	—	M12H37T440F ^	—	M12H37T440F20018 (B or W) ^	1.35
56	31.19	200	1,750	—	M12H31T440F ^	—	M12H31T440F20018 (B or W) ^	1.55
58	30.12	200	1,750	—	M12H30T440F ^	—	M12H30T440F20018 (B or W) ^	1.56
68	25.59	200	1,750	—	M12H26T440F ^	—	M12H26T440F20018 (B or W) ^	1.82
73	24.03	200	1,750	—	M12H24T440F ^	—	M12H24T440F20018 (B or W) ^	1.85
83	21.08	200	1,750	—	M12H21T440F ^	—	M12H21T440F20018 (B or W) ^	2.08
88	19.86	200	1,750	—	M12H20T440F ^	—	M12H20T440F20018 (B or W) ^	2.20
104	16.83	200	1,750	—	M12H17T440F ^	—	M12H17T440F20018 (B or W) ^	2.50
126	13.90	200	1,750	—	M12H14T440F ^	—	M12H14T440F20018 (B or W) ^	2.57

* Consult Dodge Engineering for thermal considerations of application. This reducer motor combination may require the optional electric fan.
^ On all C-face, and foot-mounted 60—150 hp gearbox or gearmotor packages, the tie rods or tie rod reaction beams will be shipped unassembled, they will need to be assembled on site, contact Dodge with any questions. Avoid position "D".
Thermal considerations are based on a max ambient temperature of 100 °F.
Gearmotor assemblies are either 'B' Baldor ECP/CECP, or 'W' Weg W22motors, ex.. M9H56T36C6018B is a Baldor CECP motor assembly and M9H56T36C6018W is a WEG W22.

Class II (1.4 service factor)

Output speed (rpm)	Ratio	Class II motor power (hp)	Motor speed	C-face motor part number	Footed motor part number	C-face gearmotor part number	Footed gearmotor part number	Service factor
17	101.55	60	1,750	M12H102T36C	M12H102T36F ^	M12H102T36C6018 (B or W)	M12H102T36F6018 (B or W) ^	1.52
21	82.95	75	1,750	M12H83T36C	M12H83T36F ^	M12H83T36C7518 (B or W)	M12H83T36F7518 (B or W) ^	1.52
25	71.09	75	1,750	M12H71T36C	M12H71T36F ^	M12H71T36C7518 (B or W)	M12H71T36F7518 (B or W) ^	1.83
26	67.82	100	1,750	M12H68T405C *	M12H68T405F ^	M12H68T405C10018 (B or W) *	M12H68T405F10018 (B or W) ^	1.49
30	58.07	100	1,750	M12H58T405C *	M12H58T405F ^	M12H58T405C10018 (B or W) *	M12H58T405F10018 (B or W) ^	1.71
32	54.76	125	1,750	—	M12H55T440F ^	—	M12H55T440F12518 (B or W) ^	1.46
37	47.48	125	1,750	—	M12H48T440F ^	—	M12H48T440F12518 (B or W) ^	1.65
39	44.55	150	1,750	—	M12H45T440F ^	—	M12H45T440F15018 (B or W) ^	1.45
46	38.33	150	1,750	—	M12H38T440F ^	—	M12H38T440F15018 (B or W) ^	1.68
48	36.56	150	1,750	—	M12H37T440F ^	—	M12H37T440F15018 (B or W) ^	1.80
56	31.19	200	1,750	—	M12H31T440F ^	—	M12H31T440F20018 (B or W) ^	1.55
58	30.12	200	1,750	—	M12H30T440F ^	—	M12H30T440F20018 (B or W) ^	1.56
68	25.59	200	1,750	—	M12H26T440F ^	—	M12H26T440F20018 (B or W) ^	1.82
73	24.03	200	1,750	—	M12H24T440F ^	—	M12H24T440F20018 (B or W) ^	1.85
83	21.08	200	1,750	—	M12H21T440F ^	—	M12H21T440F20018 (B or W) ^	2.08
88	19.86	200	1,750	—	M12H20T440F ^	—	M12H20T440F20018 (B or W) ^	2.20
104	16.83	200	1,750	—	M12H17T440F ^	—	M12H17T440F20018 (B or W) ^	2.50
126	13.90	200	1,750	—	M12H14T440F ^	—	M12H14T440F20018 (B or W) ^	2.57

* Consult Dodge Application Engineering at +1 864 284 5700 for thermal considerations of the application. This reducer motor combination may require the optional electric fan.
^ On all C-face, and foot-mounted 60—150 hp gearbox or gearmotor packages, the tie rods or tie rod reaction beams will be shipped unassembled, they will need to be assembled on site, contact Dodge with any questions. Avoid position "D".
Thermal considerations are based on a max ambient temperature of 100 °F. Gearmotor assemblies are either 'B' Baldor ECP/CECP, or 'W' Weg W22motors, example M9H56T36C6018B is a Baldor CECP motor assembly and M9H56T36C6018W is a WEG W22.

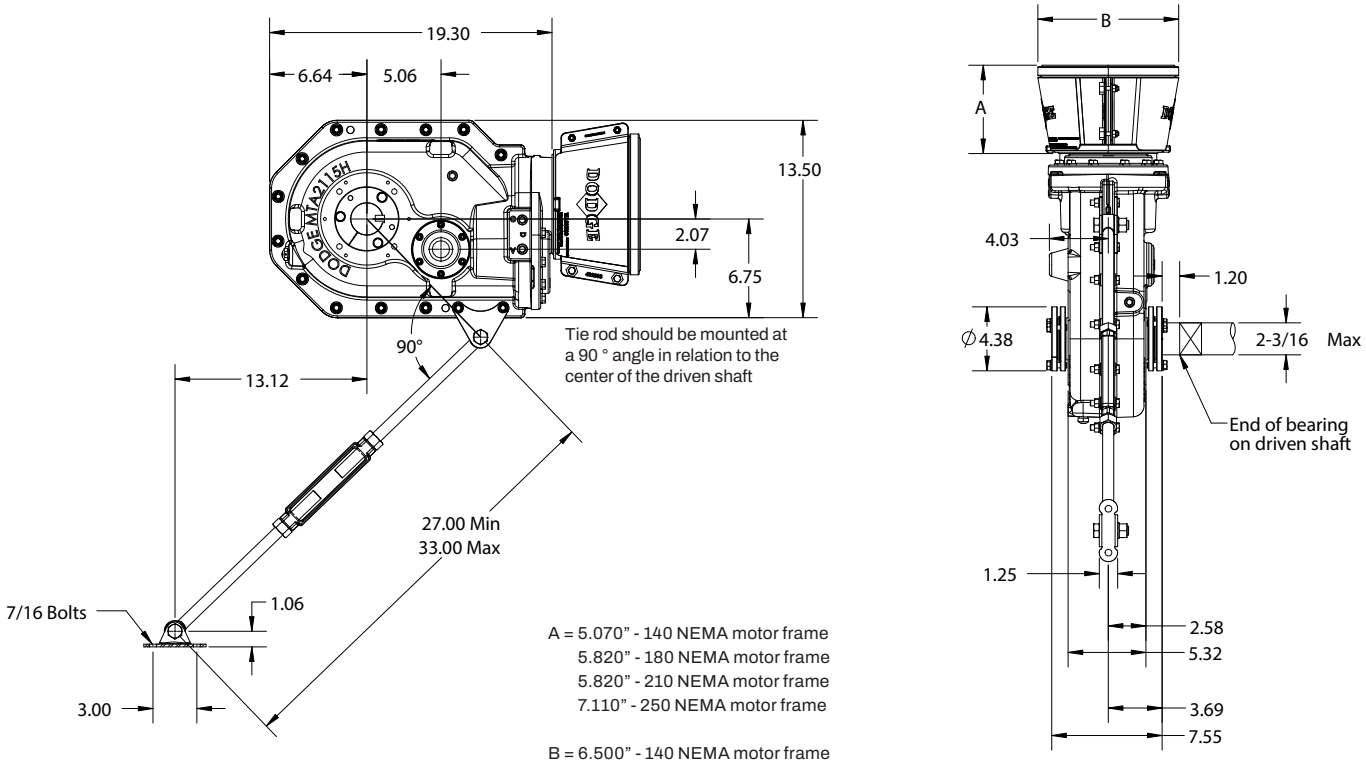
Notes

Dimensions and accessories

MTA2115

Shaft-mounted reducer

Mounting position C, for any other mounting positions contact Dodge Application engineering



All dimensions are in inches.

MTA2115

Shaft-mounted accessories

MTA2115 C-face reducer with adapter weight

Adapter size									
Reducer size	180	210	250	280	280TSC	320	360	320TSC	360TSC
Weight (lb)	155	160	165	—	—	—	—	—	—

MTA2115H accessories

Description	Part number	Weight (lb)
TA2115RA rod assembly	902109	6.9
TA3203BS backstop assembly use for MTA2115	903102	4.7
V-ring seal kit	902249	0.1
TA0—TA3 Hydra-Lock desiccant breather kit	964372	0.2
MTA2—8 position D breather kit	472300	3.0
OPTIFY Performance Sensor	820000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
MTA2115H	902142	0.6	020546	3

MTA is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the MTA gear reducers.

Shaft guard and kits

Reducer size	Shaft guard part number	Weight (lb)	Kit part number	Weight (lb)
MTA2115H	020570	4	TAShaftGuard-02	7

Kits include adapter and shaft guard extension for that size reducer.

TA2115H tapered bushing kits [5] [6]

Bushing size			
Standard shaft bushing kit	Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA2115TB x 2-3/16	902020	4.7	1/2 x 1/4 x 7.80
TA2115TB x 2	902022	5.2	1/2 x 1/4 x 7.80
TA2115TB x 1-15/16 ▲	902023	5.4	1/2 x 1/4 x 7.80
TA2115TB x 1-3/4	902025	5.8	3/8 x 3/16 x 7.80
TA2115TB x 1-11/16	902026	6.1	3/8 x 3/16 x 7.80
TA2115TB x 1-1/2 ø	902028	6.4	3/8 x 3/16 x 7.80
TA2115TB x 1-7/16 ø	902029	6.4	3/8 x 3/16 x 7.80

Bushing size			
Short shaft bushing kit [8]	Part number	Weight (lb)	Shaft keyseat required [9] [10]
TA2115TBS x 1-15/16	902030	5.6	1/2 x 1/4 x 4.80
TA2115TBS x 1-7/16	902036	5.6	3/8 x 3/16 x 4.80

For smaller bushing sizes and bushings smaller than AGMA bore standards, contact Dodge Application Engineering at +1 864 284 5700 for shaft strength evaluation.

▲ AGMA maximum bore size

ø Check driven shaft strength against torque requirements and assembly weight

(5) Bushing kit required to mount MTA reducer to driven shaft

(6) Bushing kit is not required to mount MTA reducer on screw conveyor driveshaft in a screw conveyor application

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

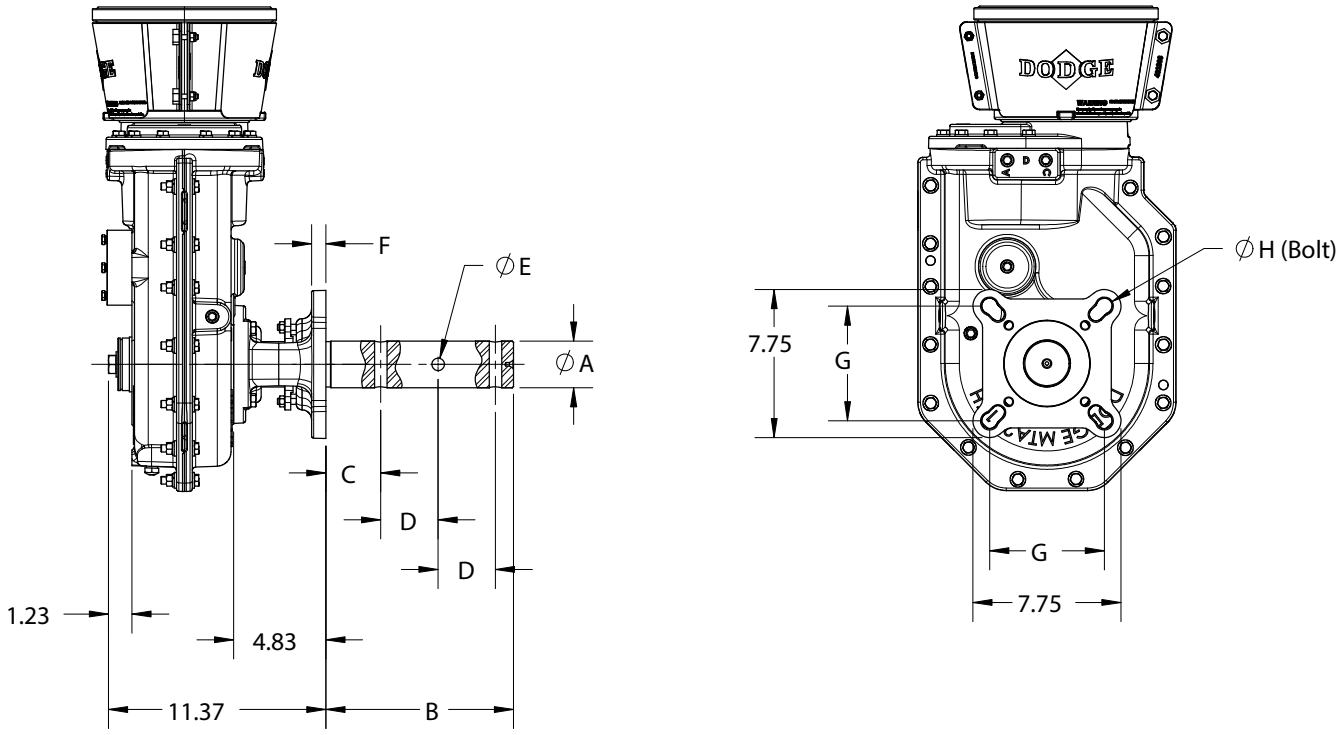
(8) Hyphenate bushing kit includes one standard bushing, one long bushing with insertable wedge, two back-up plates with snap rings, hardware, and key. This is an optional bushing for aftermarket short-shaft mounting.

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

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

MTA2115

Screw conveyor reducer



MTA2115H screw conveyor drive dimensions

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

All dimensions are in inches.

MTA2115

Screw conveyor accessories

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers	
	Closed	Weight (lb)
MTA2115H	902142	0.6

MTA is drilled and tapped to accept the ABS bushing cover bolts.
Bushing covers fit both the outboard and inboard side of the MTA reducer.

MTA2115H accessories for screw conveyor drives [4] [5]

Description	Part number	Weight (lb)
TA2115SCA Adapter and hardware kit [2]	902070	19.2
TA2115SCP Adjustable packing kit [3]	902071	1.2
TA2115SCS x 1-1/2 Driveshaft	902072	15.4
TA2115SCS x 2 Driveshaft	902073	18.6
TA2115SCS x 2-7/16 Driveshaft	902074	23.3
TA2115SCS x 3 Driveshaft	902075	29.5
TA2115SCS x 1-1/2 Stainless-steel driveshaft	902080	15.4
TA2115SCS x 2 Stainless-steel driveshaft	902081	18.6
TA2115SCS x 2-7/16 Stainless-steel driveshaft	902082	23.3
TA2115SCS x 3 Stainless-steel driveshaft	902083	29.5
OPTIFY Performance Sensor	820000	0.5

(2) SCA adapter and hardware kit includes adapter, mounting wedge, keeper plate, key, seals, and hardware

(3) SCP adjustable packing kit consists of flange, mounting hardware, and braided packing seals

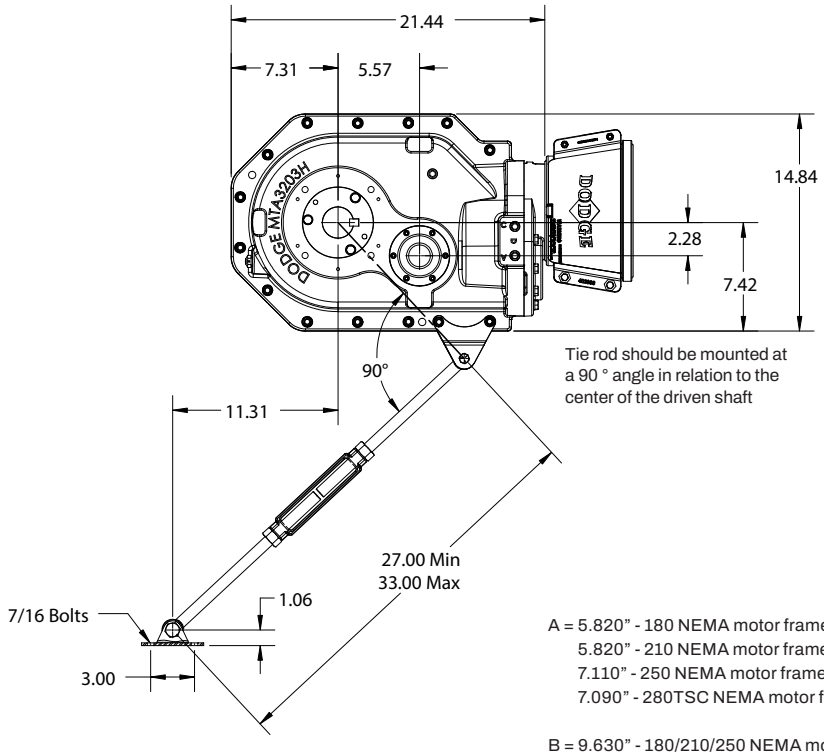
(4) SCS driveshaft is a shaft only, hardware is stocked with the adapter and hardware kit

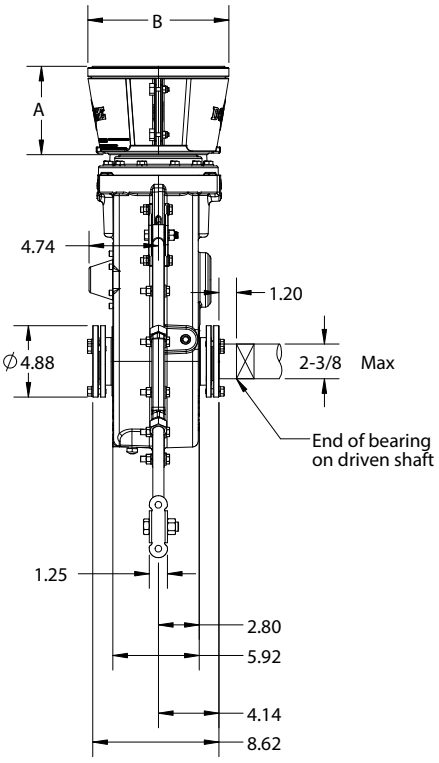
(5) A complete MTA screw conveyor drive includes a MTA reducer, SCA adapter, hardware kit, and screw conveyor driveshaft. The SCP adjustable packing kit is an optional accessory.

MTA3203

Shaft-mounted reducer

Mounting position C, for any other mounting positions contact Dodge Application engineering





A = 5.820" - 180 NEMA motor frame
5.820" - 210 NEMA motor frame
7.110" - 250 NEMA motor frame
7.090" - 280TSC NEMA motor frame

B = 9.630" - 180/210/250 NEMA motor frame
12.940" - 280TSC NEMA motor frame

All dimensions are in inches.

MTA3203

Shaft-mounted accessories

MTA3203 C-face reducer weights with adapter

Adapter size										
Reducer size	180	210	250	280	280TSC	320	360	32/36TSC	405	405TSC
Weight (lb)	210	215	220	—	245	—	—	—	—	—

MTA3203H accessories

Description	Part number	Weight (lb)
TA3203RA rod assembly	903109	6.9
TA4207BS backstop assembly use for MTA3203	904102	5.2
V-ring seal kit	903249	0.2
TA0—TA3 Hydra-Lock desiccant breather kit	964372	0.2
MTA2—8 position D breather kit	472300	3.0
OPTIFY Performance Sensor	820000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
MTA3203H	903142	0.6	020547	3

MTA is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the MTA reducer.

Shaft guard and kits

Reducer size	Shaft guard extension	Weight (lb)	Kit - adapter + extension	Weight (lb)
MTA3203H	020571	4	TAShaftGuard-03	7

Kits include adapter and extension for that size reducer.

MTA3203H tapered bushing kits [5] [6]

Bushing size standard shaft bushing kit	Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA3203TB x 2-3/8	903020	6.1	5/8 x 5/16 x 8.55
TA3203TB x 2-1/4	903021	6.2	1/2 x 1/4 x 8.55
TA3203TB x 2-3/16 ▲	903022	6.8	1/2 x 1/4 x 8.55
TA3203TB x 2-1/8	903023	7.0	1/2 x 1/4 x 8.55
TA3203TB x 2	903024	7.5	1/2 x 1/4 x 8.55
TA3203TB x 1-15/16	903025	7.8	1/2 x 1/4 x 8.55

MTA3203H short shaft tapered bushing kits

Bushing size short shaft bushing kit	Part number [8]	Weight (lb)	Shaft keyseat required [9] [10]
TA3203TBS x 2-3/16	903030	7.0	1/2 x 1/4 x 5.46
TA3203TBS x 2-1/8	903031	7.4	1/2 x 1/4 x 5.46
TA3203TBS x 2	903032	8.0	1/2 x 1/4 x 5.46
TA3203TBS x 1-15/16	903033	8.4	1/2 x 1/4 x 5.46

▲ AGMA maximum bore size

ø Check driven shaft strength against torque requirements and assembly weight

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

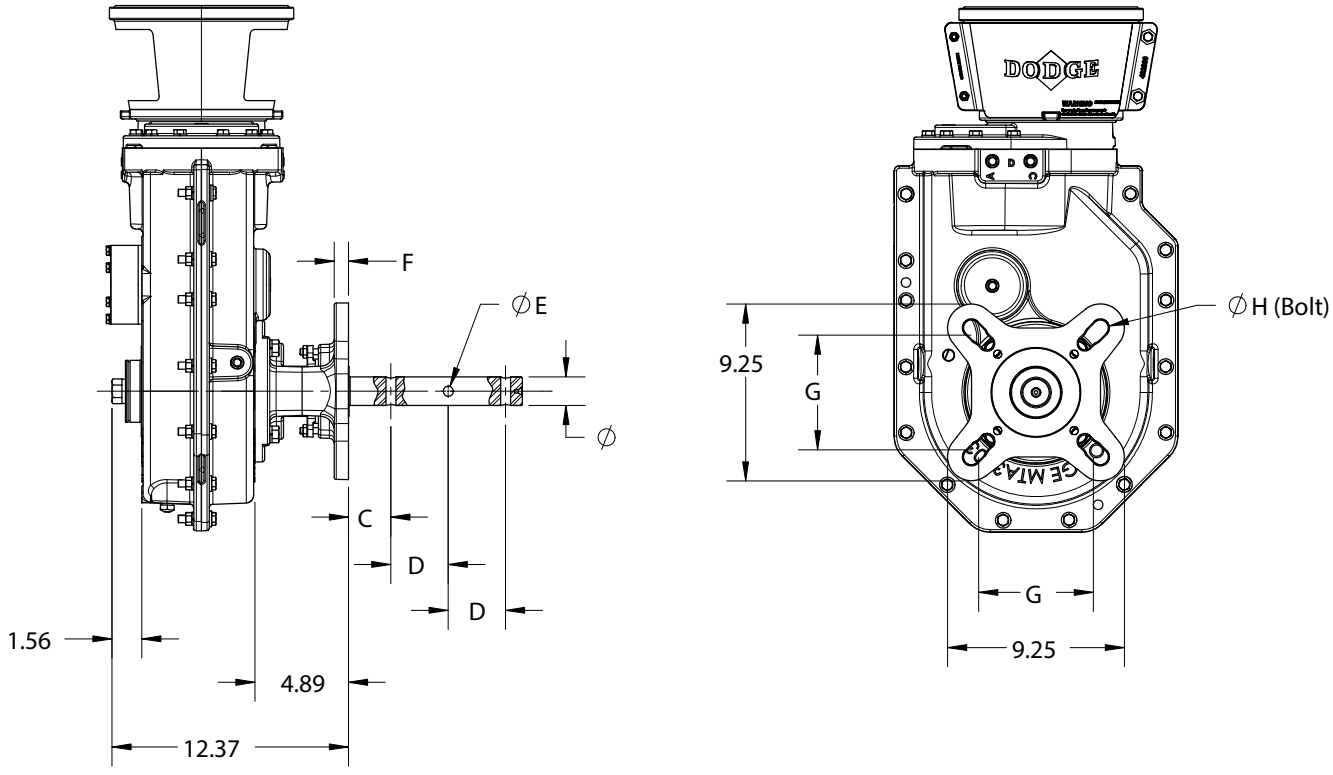
(8) Short shaft bushing kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for aftermarket short-shaft mounting.

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

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

MTA3203

Screw conveyor reducer



MTA3203H screw conveyor drive dimensions

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

All dimensions are in inches.

MTA3203

Screw conveyor accessories

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers	
	Closed	Weight (lb)
MTA3203H	903142	0.6

MTA is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the MTA reducer.

MTA3203H accessories for screw conveyor drives [4] [5]

Description	Part number	Weight (lb)
TA3203SCA Adapter and hardware kit [2]	903070	22.0
TA3203SCP Adjustable packing kit [3]	903071	1.4
TA3203SCS x 1-1/2 Driveshaft	903072	19.3
TA3203SCS x 2 Driveshaft	903073	22.6
TA3203SCS x 2-7/16 Driveshaft	903074	27.2
TA3203SCS x 3 Driveshaft	903075	33.6
TA3203SCS x 3-7/16 Driveshaft	903076	44.8
TA3203SCS x 1-1/2 Stainless-steel driveshaft	903080	19.3
TA3203SCS x 2 Stainless-steel driveshaft	903081	22.6
TA3203SCS x 2-7/16 Stainless-steel driveshaft	903082	27.2
TA3203SCS x 3 Stainless-steel driveshaft	903083	33.6
TA3203SCS x 3-7/16 Stainless-steel driveshaft	903084	44.8
OPTIFY Performance Sensor	820000	0.5

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

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

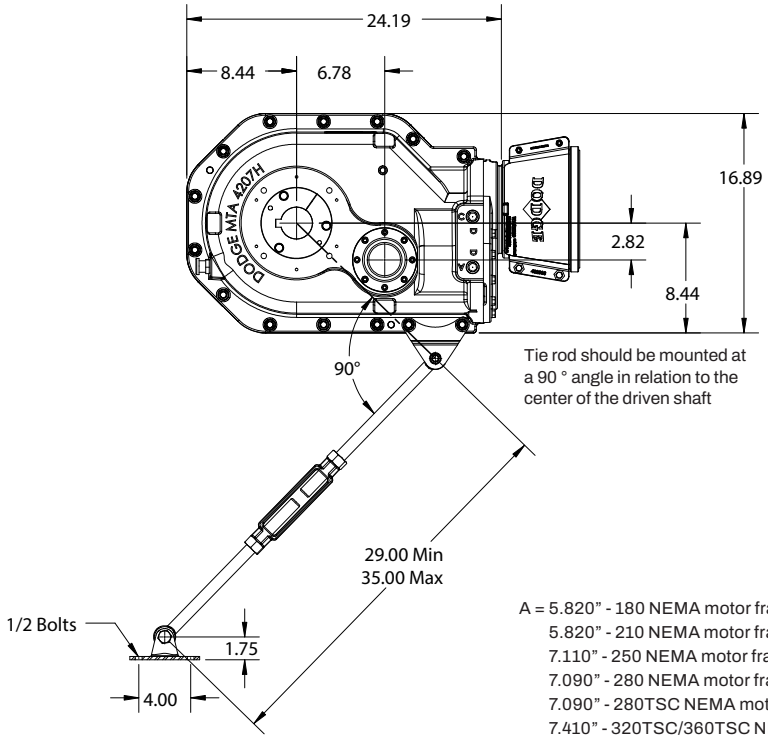
(4) SCS Driveshaft is a shaft only. Hardware is stocked with the adapter and hardware kit

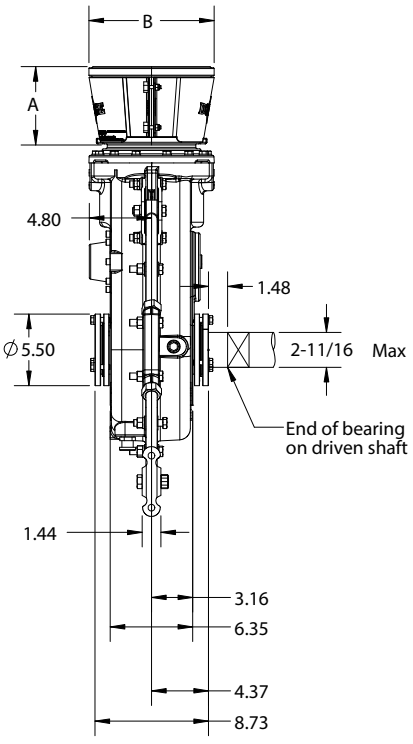
(5) To complete TA II screw conveyor drive includes a TA II reducer, SCA adapter, hardware kit, and screw conveyor driveshaft. The SCP adjustable packing kit is an optional accessory.

MTA4207

Shaft-mounted reducer

Mounting position C, for any other mounting positions contact Dodge Application engineering





A = 5.820" - 180 NEMA motor frame
5.820" - 210 NEMA motor frame
7.110" - 250 NEMA motor frame
7.090" - 280 NEMA motor frame
7.090" - 280TSC NEMA motor frame
7.410" - 320TSC/360TSC NEMA motor frame

B = 9.630" - 180/210/250 NEMA motor frame
12.94" - 280/280TSC NEMA motor frame
16.30" - 320TSC/360TSC NEMA motor frame

All dimensions are in inches.

MTA4207

Shaft-mounted accessories

MTA4207 C-face reducer weights with adapter

Adapter size									
Reducer size	180	210	250	280	280TSC	320	360	320TSC	360TSC
Weight (lb)	270	275	280	300	300	—	—	320	320

MTA4207H accessories

Description	Part number	Weight (lb)
TA4207RA rod assembly	904109	10.6
TA5215BS backstop assembly use for MTA4207	905102	8.3
V-ring seal kit	904249	0.2
TA4—TA9 Hydra-Lock desiccant breather kit	964364	0.8
MTA2—8 position D breather kit	472300	3.0
OPTIFY Performance Sensor	820000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
MTA4207H	904142	1.2	020548	3

MTA is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the MTA reducer.

Shaft guard and kits

Reducer size	Shaft guard extension	Weight (lb)	Kit - adapter + extension	Weight (lb)
MTA4207H	020572	4	TAShaftGuard-04	7

Kits include adapter and extension for that size reducer.

TA4207H tapered bushing kits [5] [6]

Bushing size standard shaft bushing kit		Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA4207TB x 2-11/16		904020	9.4	5/8 x 5/16 x 8.93
TA4207TB x 2-1/2		904021	10.6	5/8 x 5/16 x 8.93
TA4207TB x 2-7/16	▲	904022	10.8	5/8 x 5/16 x 8.93
TA4207TB x 2-3/8		904023	11.3	5/8 x 5/16 x 8.93
TA4207TB x 2-1/4	ø	904024	11.5	1/2 x 1/4 x 8.93
TA4207TB x 2-3/16	ø	904025	11.8	1/2 x 1/4 x 8.93

TA4207H tapered short shaft bushing kits [5] [6]

Bushing size short shaft bushing kit [8]	Part number	Weight (lb)	Shaft keyseat required [9] [10]
TA4207TBS x 2-7/16	904032	11.3	5/8 x 5/16 x 5.65
TA4207TBS x 2-3/8	904033	11.8	5/8 x 5/16 x 5.65
TA4207TBS x 2-1/4	904034	12.4	1/2 x 1/4 x 5.65
TA4207TBS x 2-3/16	904035	10.8	1/2 x 1/4 x 5.65

▲ AGMA maximum bore size

ø Check driven shaft strength against torque requirements and assembly weight

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

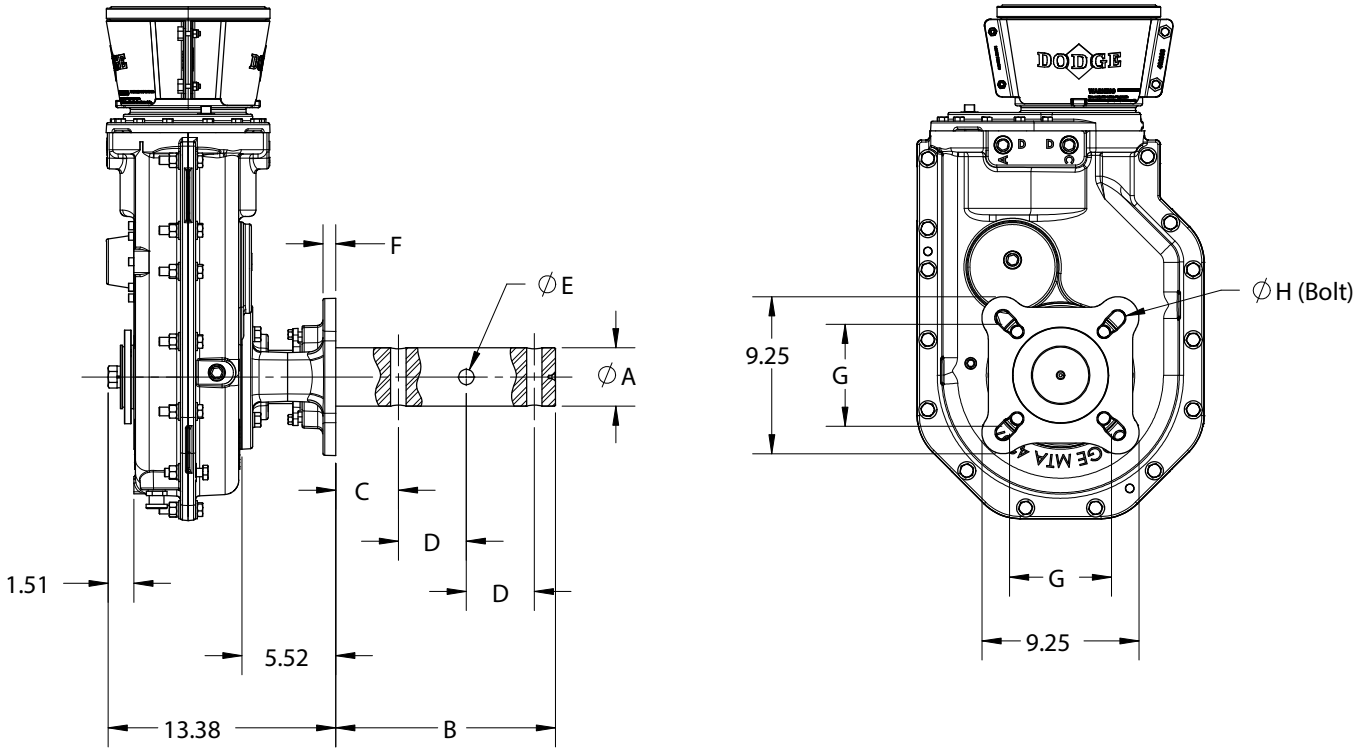
(8) Short shaft bushing kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for aftermarket, short shaft-mounting.

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

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

MTA4207

Screw conveyor reducer



MTA4207H screw conveyor drive dimensions

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

All dimensions are in inches.

MTA4207

Screw conveyor accessories

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers	
	Closed	Weight (lb)
MTA4207H	904142	1.2

MTA is drilled and tapped to accept the ABS bushing cover bolts.
Bushing covers fit both the outboard and inboard side of the MTA reducer.

MTA4207H accessories for screw conveyor drives [4] [5]

Description	Part number	Weight (lb)
TA4207SCA adapter and hardware kit [2]	904070	33.6
TA4207SCP Adjustable packing kit [3]	904071	2.1
TA4207SCS x 2 Driveshaft	904073	29.8
TA4207SCS x 2-7/16 Driveshaft	904074	34.5
TA4207SCS x 3 Driveshaft	904075	40.9
TA4207SCS x 3-7/16 Driveshaft	904076	54.7
TA4207SCS x 2 Stainless-steel driveshaft	904081	29.8
TA4207SCS x 2-7/16 Stainless-steel driveshaft	904082	34.5
TA4207SCS x 3 Stainless-steel driveshaft	904083	40.9
TA4207SCS x 3-7/16 Stainless-steel driveshaft	904084	54.7
OPTIFY Performance Sensor	820000	0.5

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

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

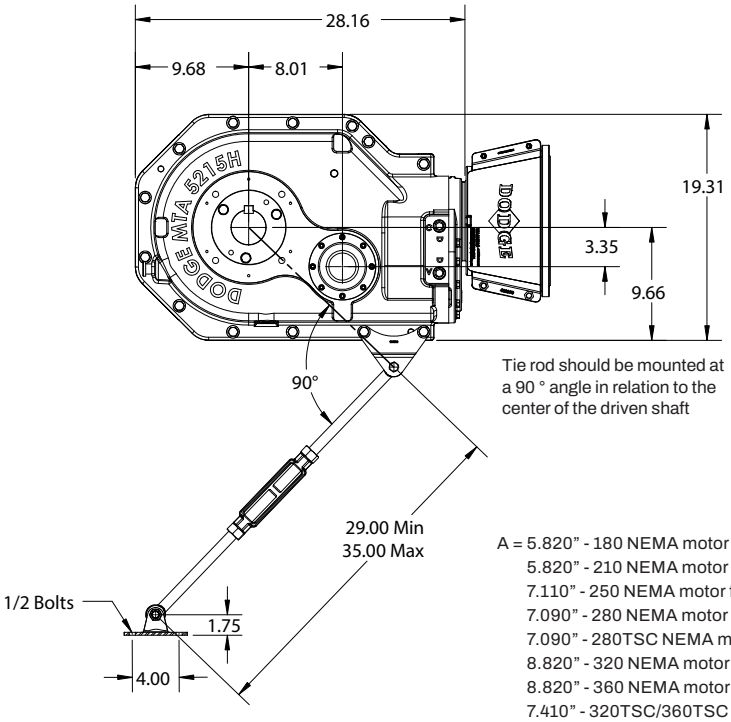
(4) SCS Driveshaft is a shaft only. Hardware is stocked with the adapter and hardware kit

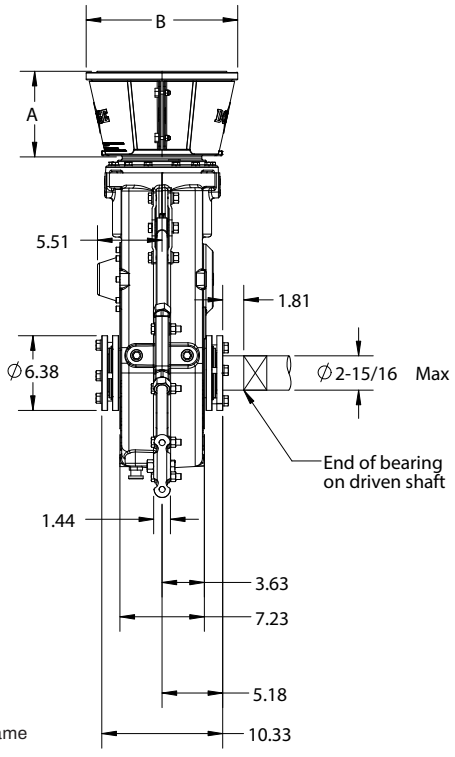
(5) To complete TA II screw conveyor drive includes a TA II reducer, SCA adapter and hardware kit and screw conveyor driveshaft. The SCP adjustable packing kit is an optional accessory.

MTA5215

Shaft-mounted reducer

Mounting position C, for any other mounting positions contact Dodge Application engineering





A = 5.820" - 180 NEMA motor frame
5.820" - 210 NEMA motor frame
7.110" - 250 NEMA motor frame
7.090" - 280 NEMA motor frame
7.090" - 280TSC NEMA motor frame
8.820" - 320 NEMA motor frame
8.820" - 360 NEMA motor frame
7.410" - 320TSC/360TSC NEMA motor frame

B = 9.630" - 180/210/250 NEMA motor frame
12.94" - 280/280TSC NEMA motor frame
16.30" - 320/360/320TSC/360TSC NEMA motor frame

All dimensions are in inches.

MTA5215

Shaft-mounted accessories

MTA5215 C-face reducer weights with adapter

Adapter size										
Reducer size	180	210	250	280	280TSC	320	360	32/36TSC	405	405TSC
Weight (lb)	370	375	380	405	405	425	—	425	—	—

MTA5215H accessories

Description	Part number	Weight (lb)
TA5215RA rod assembly	905109	11.0
TA6307BS backstop assembly use for MTA5215	906102	11.1
TA4—TA9 Hydra-Lock desiccant breather kit	964364	0.8
MTA2—8 position D breather kit	472300	3.0
OPTIFY Performance Sensor	820000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
MTA5215H and MTA6307H	905142	1.5	020549	3

MTA is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the MTA reducer.

Shaft guard and kits

Reducer size	Shaft guard extension	Weight (lb)	Kit - adapter + extension	Weight (lb)
MTA5215H	020573	4	TAShaftGuard-05	7

Kits include adapter and extension for that size reducer.

MTA5215H tapered bushing kits [5] [6]

Bushing size standard shaft bushing kit		Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA5215TB x 3-3/16		905020	13.7	3/4 x 3/8 x 10.34
TA5215TB x 3		905021	15.1	3/4 x 3/8 x 10.34
TA5215TB x 2-15/16	▲	905022	15.6	3/4 x 3/8 x 10.34
TA5215TB x 2-7/8		905023	16.1	3/4 x 3/8 x 10.34
TA5215TB x 2-11/16		905024	16.7	5/8 x 5/16 x 10.34
TA5215TB x 2-1/2		905025	17.9	5/8 x 5/16 x 10.34
TA5215TB x 2-7/16	ø	905026	18.1	5/8 x 5/16 x 10.34

MTA5215H short shaft tapered bushing kits

Bushing size short shaft bushing kit [8]	Part number	Weight (lb)	Shaft keyseat required [9] [10]
TA5215TBS x 2-15/16	905033	16.2	3/4 x 3/8 x 6.36
TA5215TBS x 2-7/8	905034	16.9	3/4 x 3/8 x 6.36
TA5215TBS x 2-11/16	905035	18.1	5/8 x 5/16 x 6.36
TA5215TBS x 2-1/2	905036	19.7	5/8 x 5/16 x 6.36
TA5215TBS x 2-7/16	905037	20.1	5/8 x 5/16 x 6.36

▲ AGMA maximum bore size

ø Check driven shaft strength against torque requirements and assembly weight

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

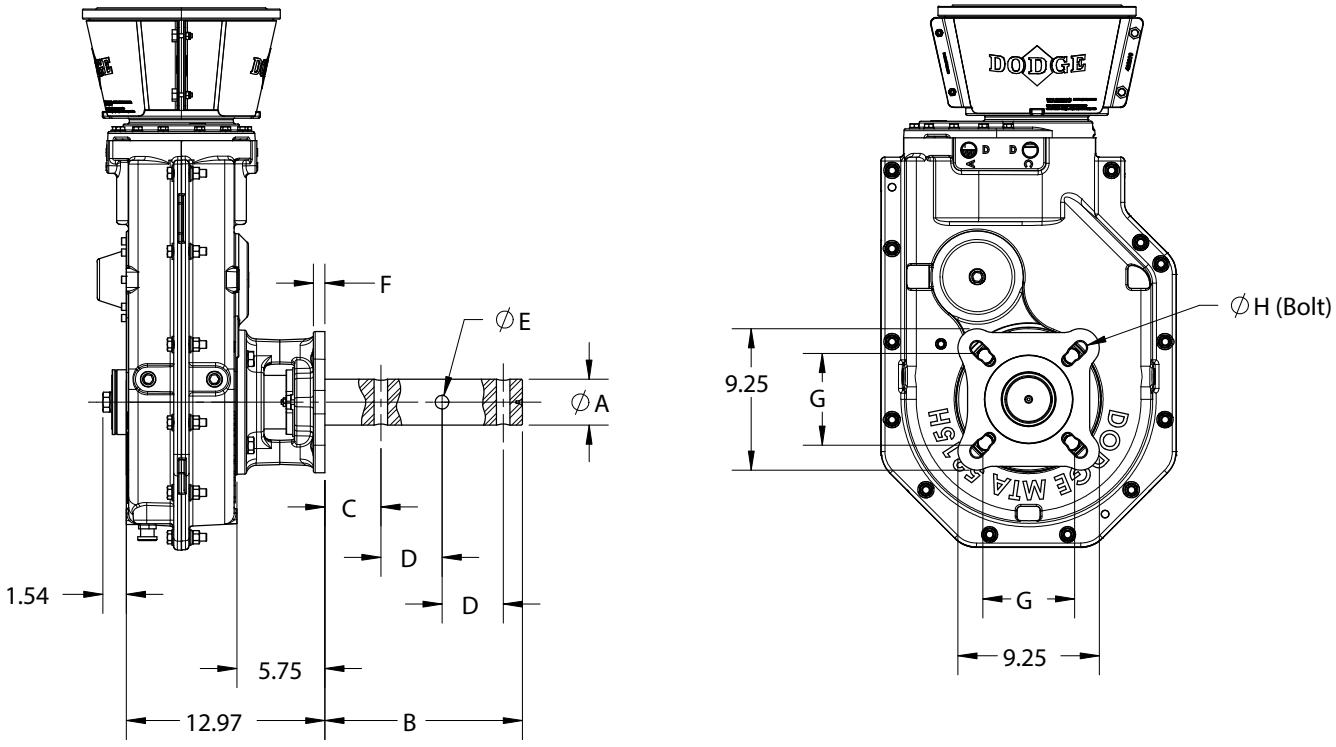
(8) Short shaft bushing kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for aftermarket, short shaft-mounting.

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

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

MTA5215

Screw conveyor reducer



MTA5215H screw conveyor drive dimensions

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

All dimensions are in inches.

MTA5215

Screw conveyor accessories

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers	
	Closed	Weight (lb)
MTA5215H and MTA6307H	905142	1.5

MTA is drilled and tapped to accept the ABS bushing cover bolts.
Bushing covers fit both the outboard and inboard side of the MTA reducer.

MTA5215H accessories for screw conveyor drives [4] [5]

Description	Part number	Weight (lb)
TA5215SCA adapter and hardware kit [2]	905070	38.4
TA5215SCP Adjustable packing kit [3]	905071	2.1
TA5215SCS x 2 Driveshaft	905073	39.0
TA5215SCS x 2-7/16 Driveshaft	905074	43.6
TA5215SCS x 3 Driveshaft	905075	50.0
TA5215SCS x 3-7/16 Driveshaft	905076	63.9
TA5215SCS x 2 Stainless-steel driveshaft	905081	39.0
TA5215SCS x 2-7/16 Stainless-steel driveshaft	905082	43.6
TA5215SCS x 3 Stainless-steel driveshaft	905083	50.0
TA5215SCS x 3 -7/16 Stainless-steel driveshaft	905084	63.9
OPTIFY Performance Sensor	820000	0.5

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

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

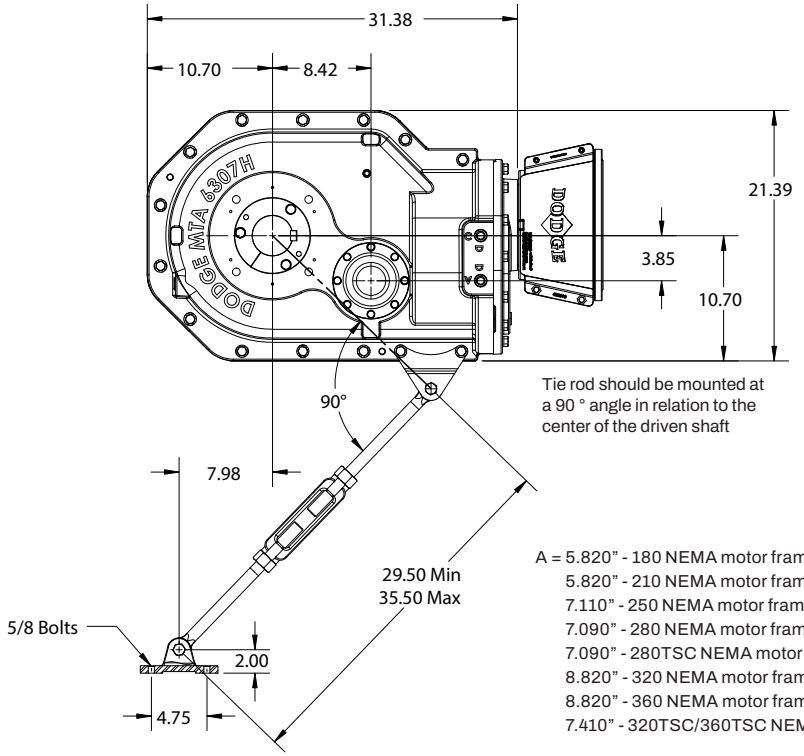
(4) SCS Driveshaft is a shaft only. Hardware is stocked with the adapter and hardware kit

(5) To complete TA II screw conveyor drive includes a TA II reducer, SCA adapter and hardware kit and screw conveyor drive shaft. The SCP adjustable packing kit is an optional accessory.

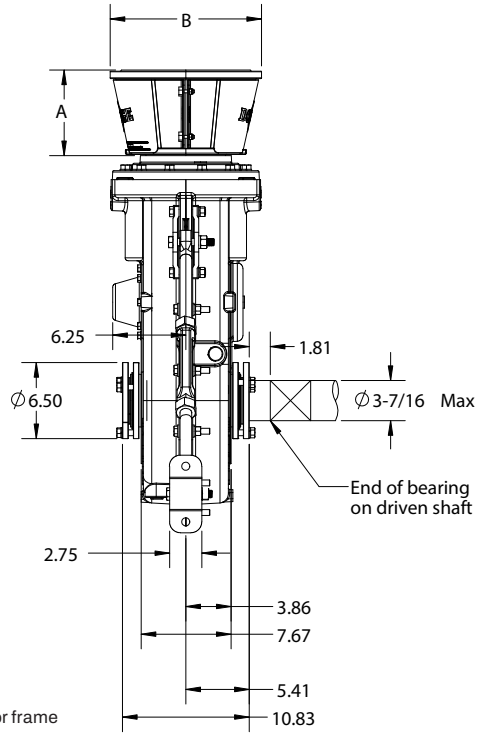
MTA6307

Shaft-mounted reducer

Mounting position C, for any other mounting positions contact Dodge Application engineering



Tie rod should be mounted at a 90 ° angle in relation to the center of the driven shaft



A = 5.820" - 180 NEMA motor frame
5.820" - 210 NEMA motor frame
7.110" - 250 NEMA motor frame
7.090" - 280 NEMA motor frame
7.090" - 280TSC NEMA motor frame
8.820" - 320 NEMA motor frame
8.820" - 360 NEMA motor frame
7.410" - 320TSC/360TSC NEMA motor frame

B = 9.630" - 180/210/250 NEMA motor frame
12.94" - 280/280TSC NEMA motor frame
16.30" - 320/360 and 320TSC/360TSC NEMA motor frame

All dimensions are in inches.

MTA6307

Shaft-mounted accessories

MTA6307 C-face reducer weights with adapter

Adapter size									
Reducer size	180	210	250	280	280TSC	320	360	320TSC	360TSC
Weight (lb)	475	480	485	505	505	525	545	525	525

MTA6307H accessories

Description	Part number	Weight (lb)
TA6307RA rod assembly	906109	19.9
TA7315BS backstop assembly use for MTA6307	907102	20.0
V-ring seal kit	906249	0.3
TA4—TA9 Hydra-Lock desiccant breather kit	964364	0.8
MTA2—8 position D breather kit	472300	3.0
OPTIFY Performance Sensor	820000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter	Weight (lb)
MTA5215H and MTA6307H	905142	1.0	020550	4

MTA is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the MTA reducer.

Shaft guard and kits

Reducer size	Shaft guard extension	Weight (lb)	Kit - adapter + extension	Weight (lb)
MTA6307H	020574	5	TAShaftGuard-06	9

Kits include adapter and extension for that size reducer.

TA6307H tapered bushing kits (5) (6)

Bushing size standard shaft bushing kit		Part number (7)	Weight (lb)	Shaft keyseat required (9) (10)
TA6307TB x 3-7/16	▲	906020	16.7	7/8 x 7/16 x 10.82
TA6307TB x 3-3/16		906021	17.7	3/4 x 3/8 x 10.82
TA6307TB x 3		906022	19.1	3/4 x 3/8 x 10.82
TA6307TB x 2-15/16	ø	906023	19.6	3/4 x 3/8 x 10.82

TA6307H tapered short shaft bushing kits (5) (6)

Bushing size short shaft bushing kit (8)	Part number	Weight (lb)	Shaft keyseat required (9) (10)
TA6307TBS x 3-7/16	906031	16.5	7/8 x 7/16 x 6.72
TA6307TBS x 3-3/16	906032	19.0	3/4 x 3/8 x 6.72
TA6307TBS x 3	906033	20.9	3/4 x 3/8 x 6.72
TA6307TBS x 2-15/16	906034	21.6	3/4 x 3/8 x 6.72

▲ AGMA maximum bore size

ø Check driven shaft strength against torque requirements and assembly weight

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

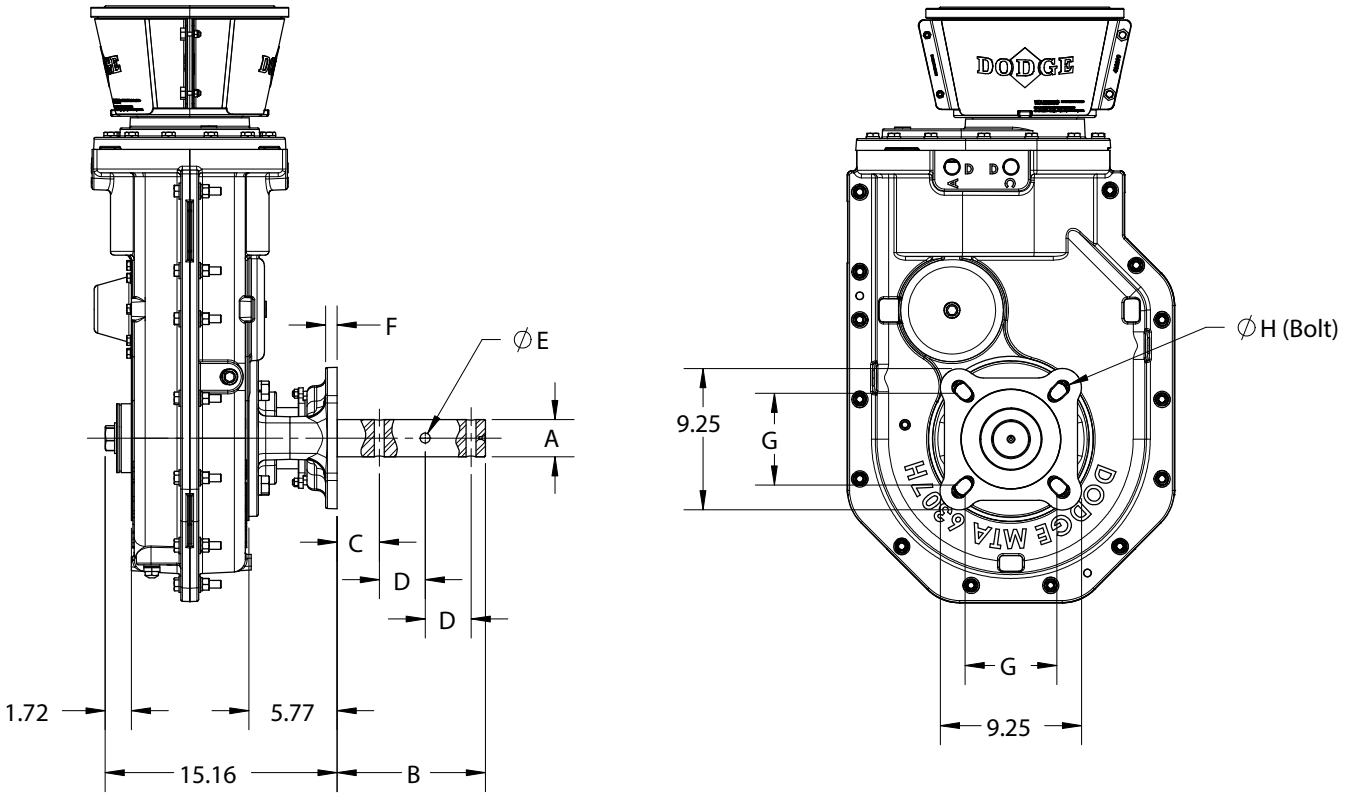
(8) Short shaft bushing kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for aftermarket, short shaft-mounting.

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

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

MTA6307

Screw conveyor reducer



MTA6307H screw conveyor drive dimensions

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

All dimensions are in inches.

MTA6307

Screw conveyor accessories

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers	
	Closed	Weight
MTA5215H and MTA6307H	905142	1.0

MTA is drilled and tapped to accept the ABS bushing cover bolts.
Bushing covers fit both the outboard and inboard side of the MTA reducer.

MTA6307H accessories for screw conveyor drives [4] [5]

Description	Part number	Weight (lb)
TA6307SCA Adapter and hardware kit [2]	906070	40.0
TA6307SCP Adjustable packing kit [3]	906071	2.4
TA6307SCS x 2-7/16 Driveshaft	906074	54.6
TA6307SCS x 3 Driveshaft	906075	61.0
TA6307SCS x 3-7/16 Driveshaft	906076	74.9
TA6307SCS x 2-7/16 Stainless-steel driveshaft	906082	54.6
TA6307SCS x 3 Stainless-steel driveshaft	906083	61.0
TA6307SCS x 3-7/16 Stainless-steel driveshaft	906084	74.9
OPTIFY Performance Sensor	820000	0.5

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

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

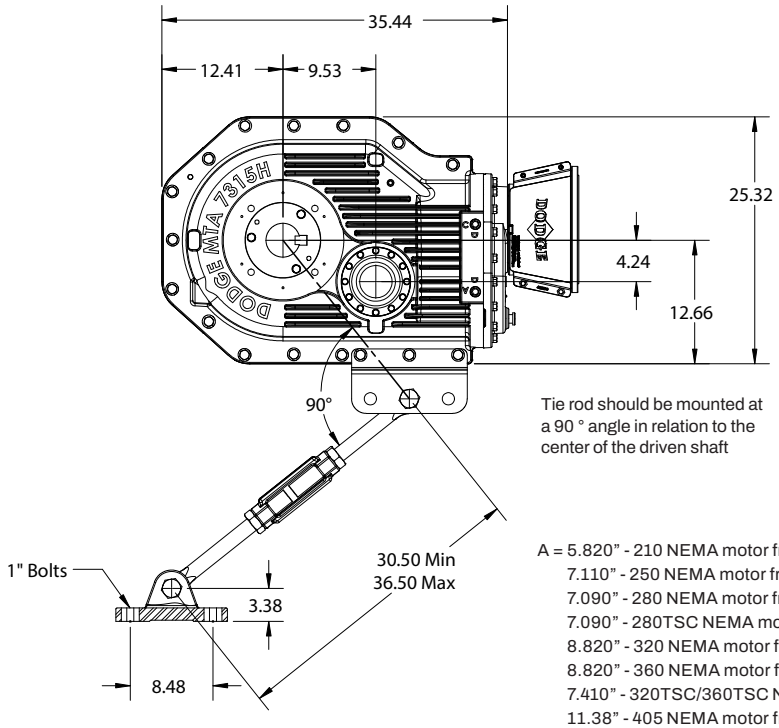
(4) SCS Driveshaft is a shaft only. Hardware is stocked with the adapter and hardware kit

(5) To complete TA II screw conveyor drive includes a TA II reducer, SCA adapter and hardware kit and screw conveyor drive shaft. The SCP adjustable packing kit is an optional accessory.

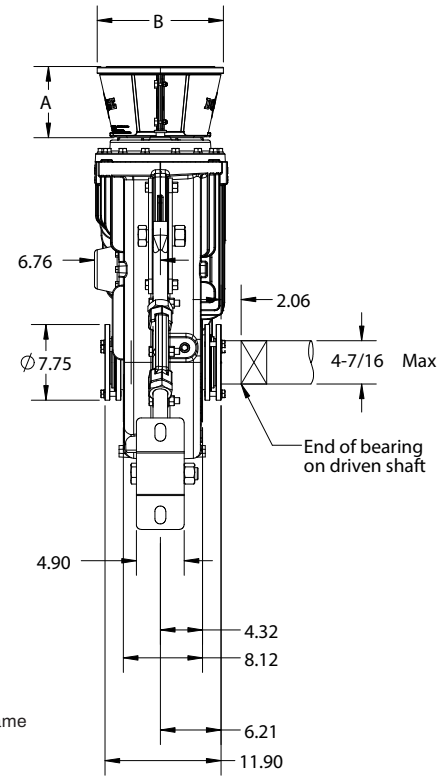
MTA7315

Shaft-mounted reducer

Mounting position C, for any other mounting positions contact Dodge Application engineering



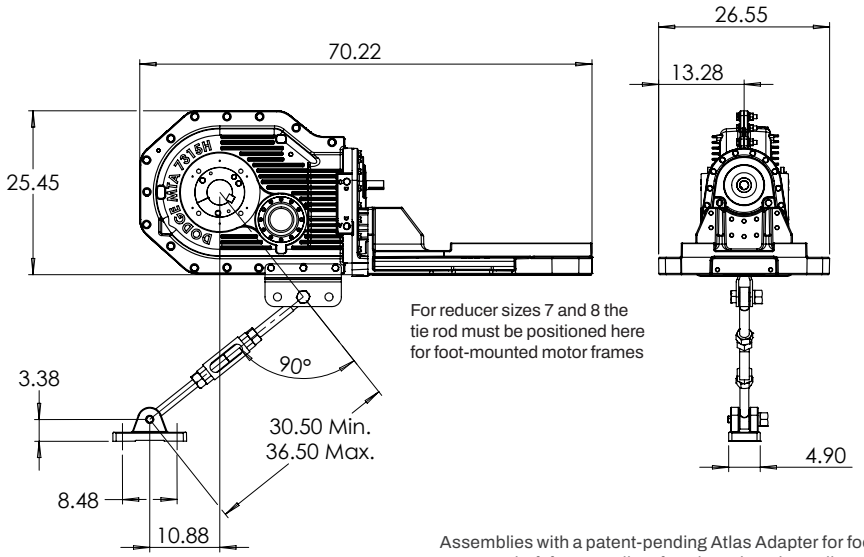
Tie rod should be mounted at a 90 ° angle in relation to the center of the driven shaft



A = 5.820" - 210 NEMA motor frame
7.110" - 250 NEMA motor frame
7.090" - 280 NEMA motor frame
7.090" - 280TSC NEMA motor frame
8.820" - 320 NEMA motor frame
8.820" - 360 NEMA motor frame
7.410" - 320TSC/360TSC NEMA motor frame
11.38" - 405 NEMA motor frame
7.410" - 405TSC NEMA motor frame

B = 9.630" - 180/210/250 NEMA motor frame
12.94" - 280/280TSC NEMA motor frame
16.30" - 320/360/405 NEMA and TSC motor frame

Atlas Adapter for foot-mounted motors



For reducer sizes 7 and 8 the tie rod must be positioned here for foot-mounted motor frames

Assemblies with a patent-pending Atlas Adapter for foot-mounted motors include a motor-shaft fan, coupling, fan shroud, and coupling guard to cover any gaps and increase airflow around the gear reducer. Screw conveyor drives cannot be used with foot-mounted motors. Cannot use foot-mounted motors with a screw conveyor drive.

All dimensions are in inches.

MTA7315

Shaft-mounted accessories

MTA7315 C-face reducer weights with adapter

Adapter size									
Reducer size	180	210	250	280	280TSC	320	360	32/36TSC	36F
Weight (lb)	—	770	775	800	800	820	835	820	1,025

MTA7315H accessories

Description	Part number	Weight (lb)
TA9415RA rod assembly use for MTA7315	909109	76.8
TA10507BS backstop assembly use for MTA7315	910102	23.0
MTA7—8 electric fan assembly	402997	65.0
TA4—TA9 Hydra-Lock desiccant breather kit	964364	0.8
MTA2—8 position D breather kit	472300	3.0
OPTIFY Performance Sensor	820000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split bushing cover/adapter	Weight (lb)
MTA7315H	907142	1.6	020551	4

MTA is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the MTA reducer.

Shaft guard and kits

Reducer size	Shaft guard extension	Weight (lb)	Kit - adapter + extension	Weight (lb)
MTA7315H	020575	5	TAShaftGuard-07	9

Kits include adapter and extension for that size reducer.

MTA7315H tapered bushing kits [5] [6]

Bushing size standard shaft bushing kit		Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA7315TB x 4-7/16		907019	20.5	1 x 1/2 x 11.87
TA7315TB x 4-3/16		907021	23.5	1 x 1/2 x 11.87
TA7315TB x 3-15/16	▲	907022	26.3	1 x 1/2 x 11.87
TA7315TB x 3-7/16		907023	30.9	7/8 x 7/16 x 11.87

MTA7315H short shaft tapered bushing kits

Bushing size short shaft bushing kit	Part number [8]	Weight (lb)	Shaft keyseat required [9] [10]
TA7315TBS x 3-15/16	907031	26.7	1 x 1/2 x 7.62
TA7315TBS x 3-7/16	907032	34.2	7/8 x 7/16 x 7.62

▲ AGMA maximum bore size

ø Check driven shaft strength against torque requirements and assembly weight

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

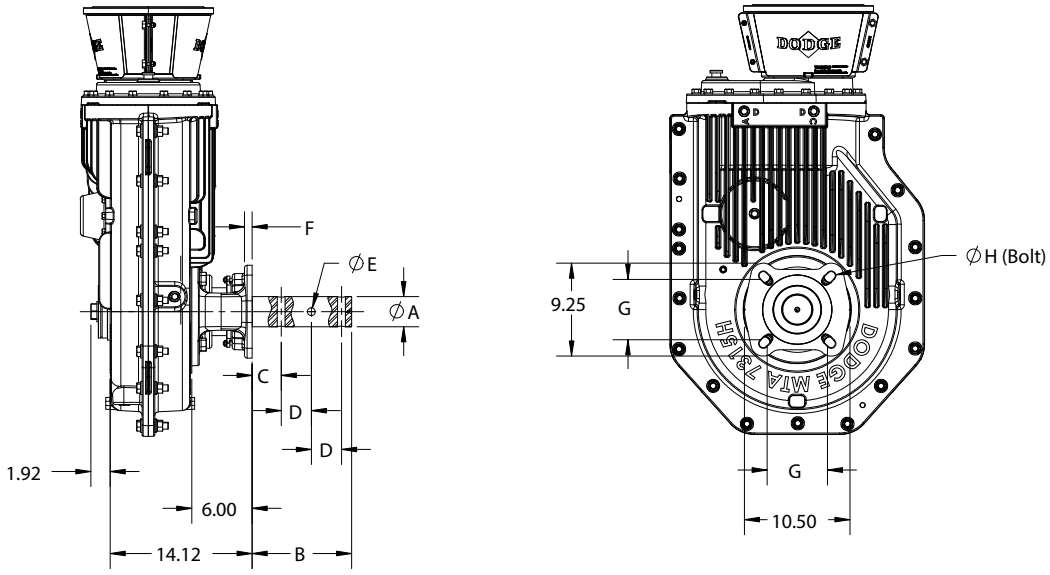
(8) Short shaft bushing kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for aftermarket, short shaft-mounting.

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

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

MTA7315

Screw conveyor reducer (C-face only)



MTA7315H screw conveyor drive dimensions

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

All dimensions are in inches.

MTA7315

Screw conveyor accessories

Safety bushing covers

Reducer size	ABS Polymer end cover part numbers	
	Closed	Weight (lb)
MTA7315H	907142	1.6

MTA is drilled and tapped to accept the ABS bushing cover bolts.
Bushing covers fit both the outboard and inboard side of the MTA reducer.

MTA7315H accessories for screw conveyor drives [4] [5]

Description	Part number	Weight (lb)
TA7315SCA Adapter and hardware kit [2]	907070	50.1
TA7315SCP Adjustable packing kit [3]	907071	2.5
TA7315SCS x 2-7/16 Driveshaft	907074	77.0
TA7315SCS x 3 Driveshaft	907075	83.4
TA7315SCS x 3-15/16 Driveshaft	907077	116.0
TA7315SCS x 3-7/16 Driveshaft	907076	97.3
TA7315SCS x 2-7/16 Stainless-steel driveshaft	907082	77.0
TA7315SCS x 3 Stainless-steel driveshaft	907083	83.4
TA7315SCS x 3-7/16 Stainless-steel driveshaft	907084	97.3
OPTIFY Performance Sensor	820000	0.5

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

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

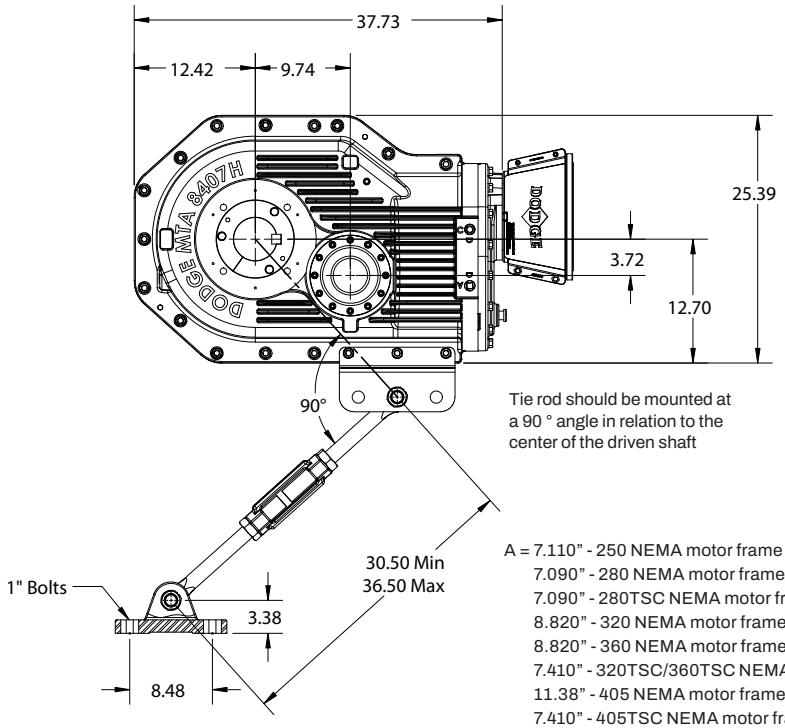
(4) SCS Driveshaft is a shaft only. Hardware is stocked with the adapter and hardware kit

(5) To complete TA II screw conveyor drive includes a TA II reducer, SCA adapter and hardware kit and screw conveyor driveshaft. The SCP adjustable packing kit is an optional accessory.

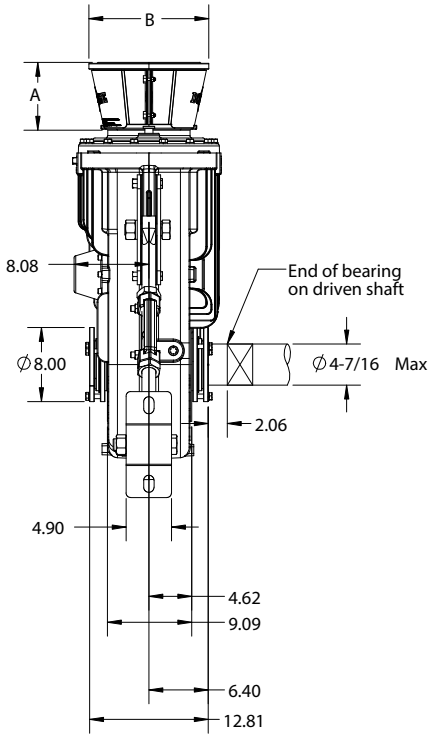
MTA8407

Shaft-mounted reducer

Mounting position C, for any other mounting positions contact Dodge Application engineering



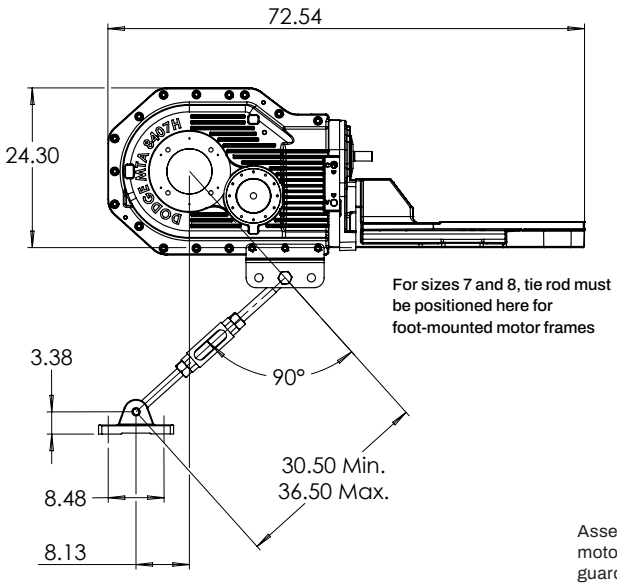
Tie rod should be mounted at a 90 ° angle in relation to the center of the driven shaft



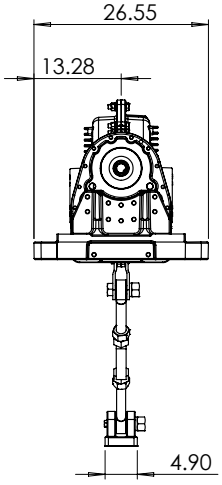
A = 7.110" - 250 NEMA motor frame
7.090" - 280 NEMA motor frame
7.090" - 280TSC NEMA motor frame
8.820" - 320 NEMA motor frame
8.820" - 360 NEMA motor frame
7.410" - 320TSC/360TSC NEMA motor frame
11.38" - 405 NEMA motor frame
7.410" - 405TSC NEMA motor frame

B = 9.630" - 180/210/250 NEMA motor frame
12.94" - 280/280TSC NEMA motor frame
16.30" - 320/360/405 NEMA and TSC motor frame

Atlas Adapter for foot-mounted motors



For sizes 7 and 8, tie rod must be positioned here for foot-mounted motor frames



Assemblies with a patent-pending Atlas Adapter for foot-mounted motors include a motor-shaft fan, coupling, fan shroud, and coupling guard to cover any gaps and increase airflow around gearbox

All dimensions are in inches.

MTA8407

Shaft-mounted accessories

MTA8407 C-face reducer weights with adapter

Adapter size											
Reducer size	180	210	250	280	280TSC	320	360	32/36TSC	405	405TSC	36F and 405F
Weight (lb)	—	—	910	935	935	955	970	955	975	965	1,165

MTA8407H accessories

Description	Part number	Weight (lb)
TA9415RA rod assembly use for MTA8407	909109	76.8
TA12608BS backstop assembly use for MTA8407	912102	39.0
MTA7—8 electric fan assembly	402997	65
TA4—TA9 Hydra-Lock desiccant breather kit	964364	0.8
MTA2—8 position D breather kit	472300	3.0
OPTIFY Performance Sensor	820000	0.5

Safety bushing covers

Reducer Size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split bushing cover/adapter	Weight (lb)
MTA8407H	908142	1.7	020552	5

MTA is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the MTA reducer.

Shaft guard and kits

Reducer size	Shaft guard extension	Weight (lb)	Kit - adapter + extension	Weight (lb)
MTA8407H	020576	6	TAShaftGuard-08	11

Kits include adapter and extension for that size reducer.

MTA8407H tapered bushing kits [5] [6]

Bushing size standard shaft bushing kit		Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA8407TB x 4-7/16	▲	908020	26.0	1 x 1/2 x 12.82
TA8407TB x 4-3/16		908021	29.0	1 x 1/2 x 12.82
TA8407TB x 3-15/16		908022	32.1	1 x 1/2 x 12.82

MTA8407H short shaft tapered bushing kits [5] [6]

Bushing size short shaft bushing kit	Part number [8]	Weight (lb)	Shaft keyseat required [9] [10]
TA8407TBS x 4-7/16	908027	26.9	1 x 1/2 x 8.10
TA8407TBS x 4-3/16	908028	31.3	1 x 1/2 x 8.10
TA8407TBS x 3-15/16	908029	35.6	1 x 1/2 x 8.10

▲ AGMA maximum bore size

ø Check driven shaft strength against torque requirements and assembly weight

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

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

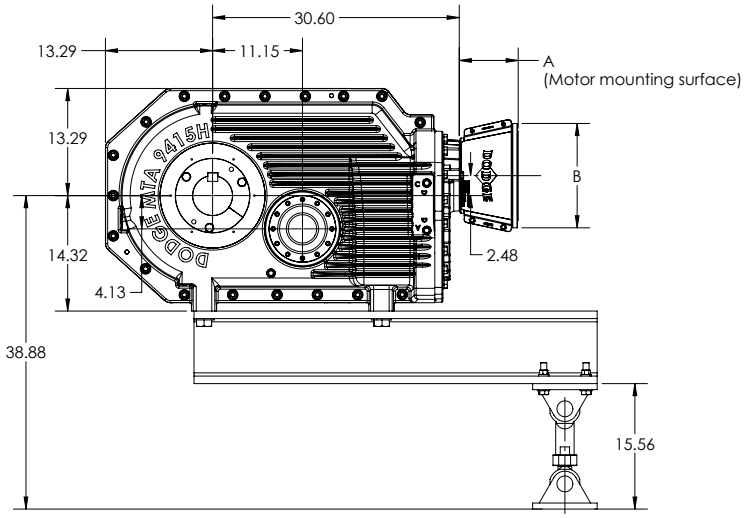
(10) Always check the driven shaft and key for strength

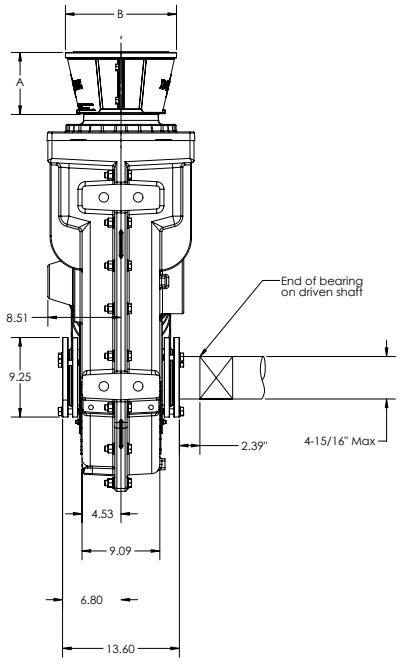
All dimensions are in inches.

MTA9415

Shaft-mounted reducer

Mounting position C, for any other mounting positions contact Dodge Application engineering

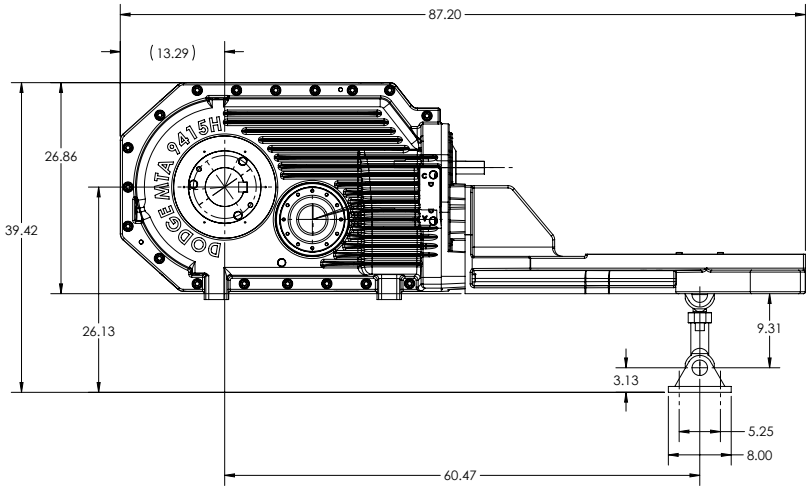


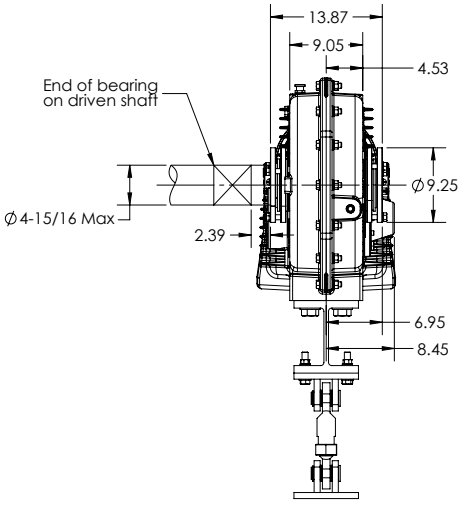


A = 7.11" (250TC NEMA)
7.09" (280TC/280TSC NEMA)
8.82" (320TC/360TC/405TC NEMA)
7.41" (320TSC/360TSC/405TSC NEMA)

B = 9.63" (250TC NEMA)
12.94 (280TC/280TSC NEMA)
16.30 (320TC/360TC/405TC NEMA)
16.30 (320TSC/360TSC/405TSC NEMA)

Atlas Adapter for foot-mounted motors





Foot-mounted motor adapters include: fan for motor shaft-mounting, coupling, and coupling fan guard to cover any gaps and increase airflow around gearbox
All dimensions are in inches.

MTA9415

Shaft-mounted accessories

MTA9415 C-face reducer weights with adapter

Adapter size								
Reducer size	250C	280C	320C	360C	360F	405C	405F	440F
Weight (lb)	1,731	1,748	1,781	1,781	2,110	1,786	2,110	2,237

Weights include: Gear reducer, motor adapter, and the required tie rod reaction beam for C-face and 360—405T foot-mounted motor. 440T foot-mounted motors require their own tie rod.

MTA9415H accessories

Description	Part number	Weight (lb)
MTA9415 backstop assembly	260066	39.0
MTA9 electric fan assembly	260097	65.0
Hydra-Lock breather HL2, use for MTA9—12	964366	0.8
Totally enclosed breather large size	240051	2.0
Large oil sight glass kit	430159	1.0
OPTIFY Performance Sensor	820000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split bushing cover/adapter	Weight (lb)
MTA9415H	909142	2	020553	1.80

MTA is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the MTA reducer.

Shaft guard and kits

Reducer size	Shaft guard extension	Weight (lb)	Kit - adapter + extension	Weight (lb)
MTA9415H	020577	6.0	TAShaftGuard-09	11.0

Kits include adapter and extension for that size reducer.

MTA9415H tapered bushing kits [5] [6]

Bushing size standard shaft bushing kit		Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA9415TB x 4-15/16	▲	909020	38.4	1-1/4 x 5/8 x 13.74
TA9415TB x 4-7/16		909021	43.4	1 x 1/2 x 13.74

MTA9415H short shaft tapered bushing kits [5] [6]

Bushing size short shaft bushing kit		Part number [8]	Weight (lb)	Shaft keyseat required [9] [10]
TA9415TBS x 4-15/16	▲	909025	40.2	1-1/4 x 5/8 x 8.56
TA9415TBS x 4-7/16		909026	48.8	1 x 1/2 x 8.59

▲ AGMA maximum bore size

ø Check driven shaft strength against torque requirements and assembly weight

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

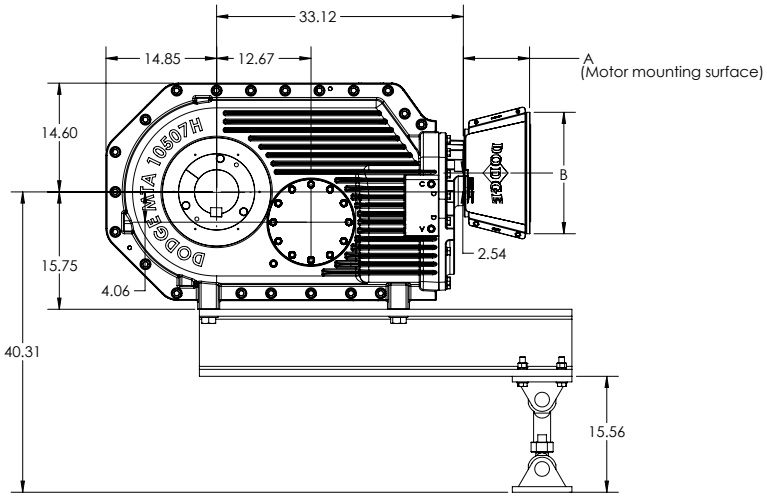
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

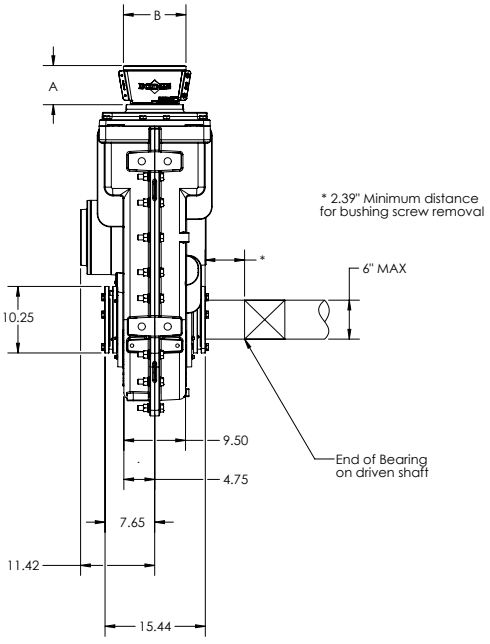
(10) Always check the driven shaft and key for strength

MTA10507

Shaft-mounted reducer

Mounting position C, for any other mounting positions contact Dodge Application engineering

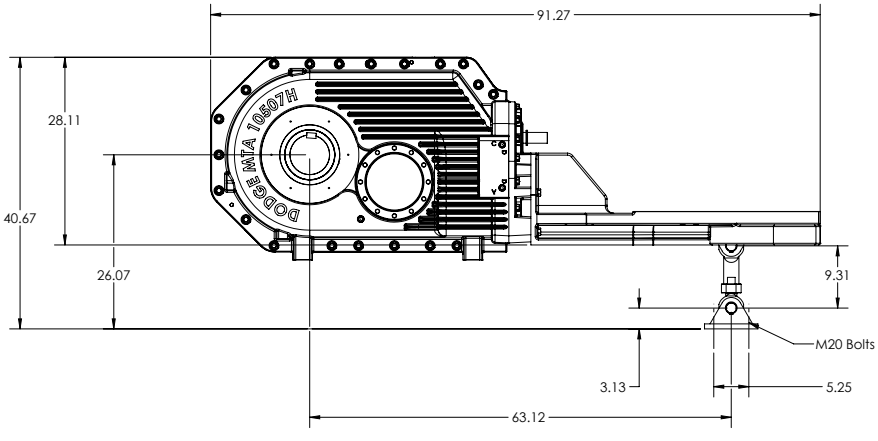


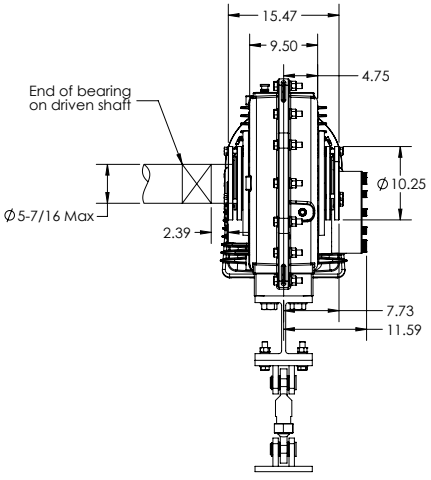


A = 7.11" (250TC NEMA)
7.09" (280TC/280TSC NEMA)
8.82" (320TC/360TC/405TC NEMA)
7.41" (320TSC/360TSC/405TSC NEMA)

B = 9.63" (250TC NEMA)
12.94 (280TC/280TSC NEMA)
16.30 (320TC/360TC/405TC NEMA)
16.30 (320TSC/360TSC/405TSC NEMA)

Atlas Adapter for foot-mounted motors





Foot-mounted motor adapters include: fan for motor shaft-mounting, coupling, and coupling fan guard to cover any gaps and increase airflow around gearbox
All dimensions are in inches.

MTA10507

Shaft-mounted accessories

MTA10507 C-face reducer weights with adapter

Adapter size								
Reducer size	250C	280C	320C	360C	360F	405C	405F	440F
Weight (lb)	1,930	1,947	1,980	1,980	2,309	1,985	2,309	2,436

Weights include: Gear reducer, motor adapter, and the required tie rod reaction beam for C-face and 360—405T foot-mounted motor. 440T foot-mounted motors require their own tie rod.

MTA10507H accessories

Description	Part number	Weight (lb)
MTA 10 and 12 backstop	260102	50.0
MTA 10 electric fan assembly	260197	80.0
Hydra-Lock breather HL2, use for MTA9—12	964366	0.8
Totally enclosed breather large size	240051	2.0
Large oil sight glass kit	430159	1.0
OPTIFY Performance Sensor	820000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split bushing cover/adapter	Weight (lb)
MTA10507H	910142	3	020554	3

MTA is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the MTA reducer.

Shaft guard and kits

Reducer size	Shaft guard extension	Weight (lb)	Kit - adapter + extension	Weight (lb)
MTA10507H	020578	7.0	TAShaftGuard-10	13.0

Kits include adapter and extension for that size reducer.

MTA10507H tapered bushing kits [5] [6]

Bushing size standard shaft bushing kit	Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA10507TB x 6	910020	40.8	1-1/2 x 3/4 x 15.46
TA10507TB x 5-15/16	910021	43.2	1-1/2 x 3/4 x 15.46
TA10507TB x 5-7/16 ▲	910022	50.0	1-1/4 x 5/8 x 15.46
TA10507TB x 4-15/16	910023	57.8	1-1/4 x 5/8 x 15.46

MTA10507H short shaft tapered bushing kits [5] [6]

Bushing size short shaft bushing kit	Part number [8]	Weight (lb)	Shaft keyseat required [9] [10]
TA10507TBS x 5-7/16 ▲	910027	47.2	1-1/4 x 5/8 x 9.67
TA10507TB x 4-15/16	910028	66.9	1-1/4 x 5/8 x 9.67

▲ AGMA maximum bore size

ø Check driven shaft strength against torque requirements and assembly weight

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

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

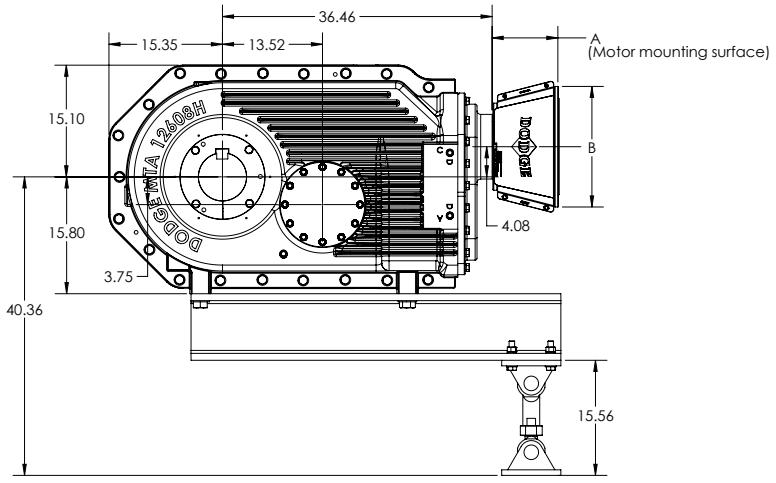
(9) Minimum keyseat and shaft length required to mount reducer with bushing kit

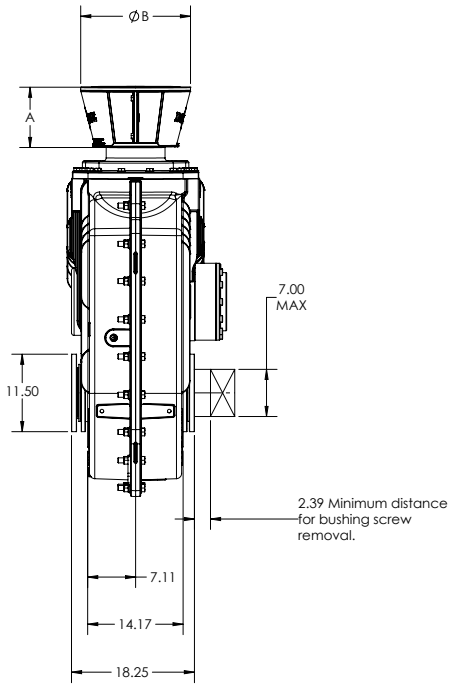
(10) Always check the driven shaft and key for strength

MTA12608

Shaft-mounted reducer

Mounting position C, for any other mounting positions contact Dodge Application engineering

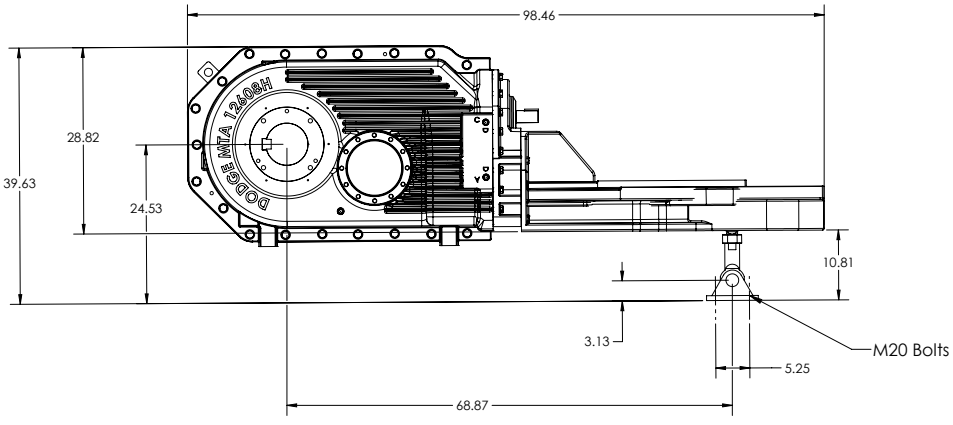


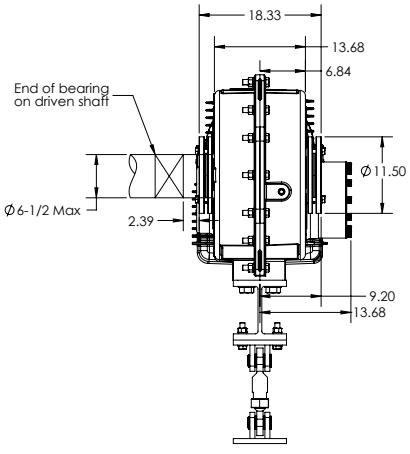


A = 7.11" (250TC NEMA)
7.09" (280TC/280TSC NEMA)
8.82" (320TC/360TC/405TC NEMA)
7.41" (320TSC/360TSC/405TSC NEMA)

B = 9.63" (250TC NEMA)
12.94 (280TC/280TSC NEMA)
16.30 (320TC/360TC/405TC NEMA)
16.30 (320TSC/360TSC/405TSC NEMA)

Atlas Adapter for foot-mounted motors





Foot-mounted motor adapters include: fan for motor shaft-mounting, coupling, and coupling fan guard to cover any gaps and increase airflow around gearbox
All dimensions are in inches.

MTA12608

Shaft-mounted accessories

MTA12608H C-face reducer weights with adapter

Adapter size								
Reducer size	250C	280C	320C	360C	360F	405C	405F	440F
Weight (lb)	2,701	2,718	2,751	2,751	3,080	2,756	3,080	3,207

Weights include: Gear reducer, motor adapter, and the required tie rod reaction beam for C-face and 360—405T foot-mounted motor. 440T foot-mounted motors require their own tie rod.

MTA12608H accessories

Description	Part number	Weight (lb)
MTA 10 and 12 backstop	260102	50.0
MTA12 electric fan assembly	260297	80.0
Hydra-Lock breather HL2, use for MTA9—12	964366	0.8
Totally enclosed breather large size	240051	2.0
Large oil sight glass kit	430159	1.0
OPTIFY Performance Sensor	820000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split bushing cover/adapter	Weight (lb)
MTA12608H	912142	3.0	020555	2.8

MTA is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the MTA reducer.

Shaft guard and kits

Reducer size	Shaft guard extension	Weight (lb)	Kit - adapter + extension	Weight (lb)
MTA12608H	020579	7.0	TAShaftGuard-12	13.0

Kits include adapter and extension for that size reducer.

MTA12608H tapered bushing kits [5] [6]

Bushing size standard shaft bushing kit		Part number [7]	Weight (lb)	Shaft keyseat required [9] [10]
TA12608TB x 7		912020	58.2	1-3/4 x 3/4 x 18.32
TA12608TB x 6-1/2	▲	912021	67.8	1-1/2 x 3/4 x 18.32
TA12608TB x 6-7/16	ø	912022	69.1	1-1/2 x 3/4 x 18.32
TA12608TB x 5-15/16		912024	79.4	1-1/2 x 3/4 x 18.32
TA12608TB x 5-7/16		912025	86.7	1-1/4 x 5/8 x 18.32

MTA12608H short shaft tapered bushing kits [5] [6]

Bushing size short shaft bushing kit		Part number [8]	Weight (lb)	Shaft keyseat required [9] [10]
TA12608TB x 6-1/2	▲	912027	73.5	1-1/2 x 3/4 x 11.60
TA12608TB x 6-7/16	ø	912028	75.7	1-1/2 x 3/4 x 11.60
TA12608TB x 5-15/16		912030	92.6	1-1/2 x 3/4 x 11.60
TA12608TB x 5-7/16		912031	106.1	1-1/4 x 5/8 x 11.60

▲ AGMA maximum bore size

ø Check driven shaft strength against torque requirements and assembly weight

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

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

(7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware and key

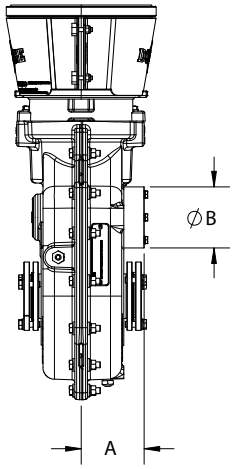
(8) Short shaft bushing kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for aftermarket, short shaft-mounting.

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

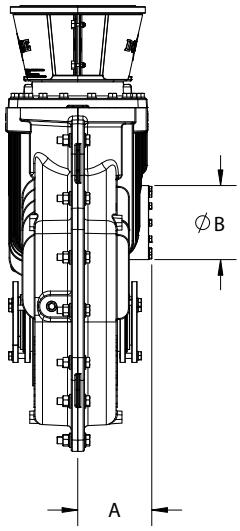
(10) Always check the driven shaft and key for strength

MTA backstop

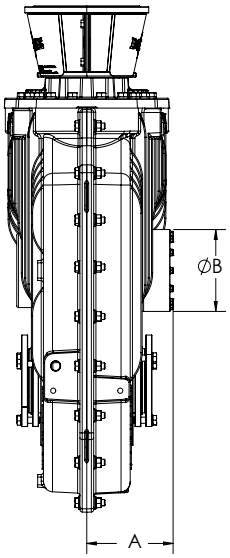
Size 2—6



Size 7—8



Size 9—12



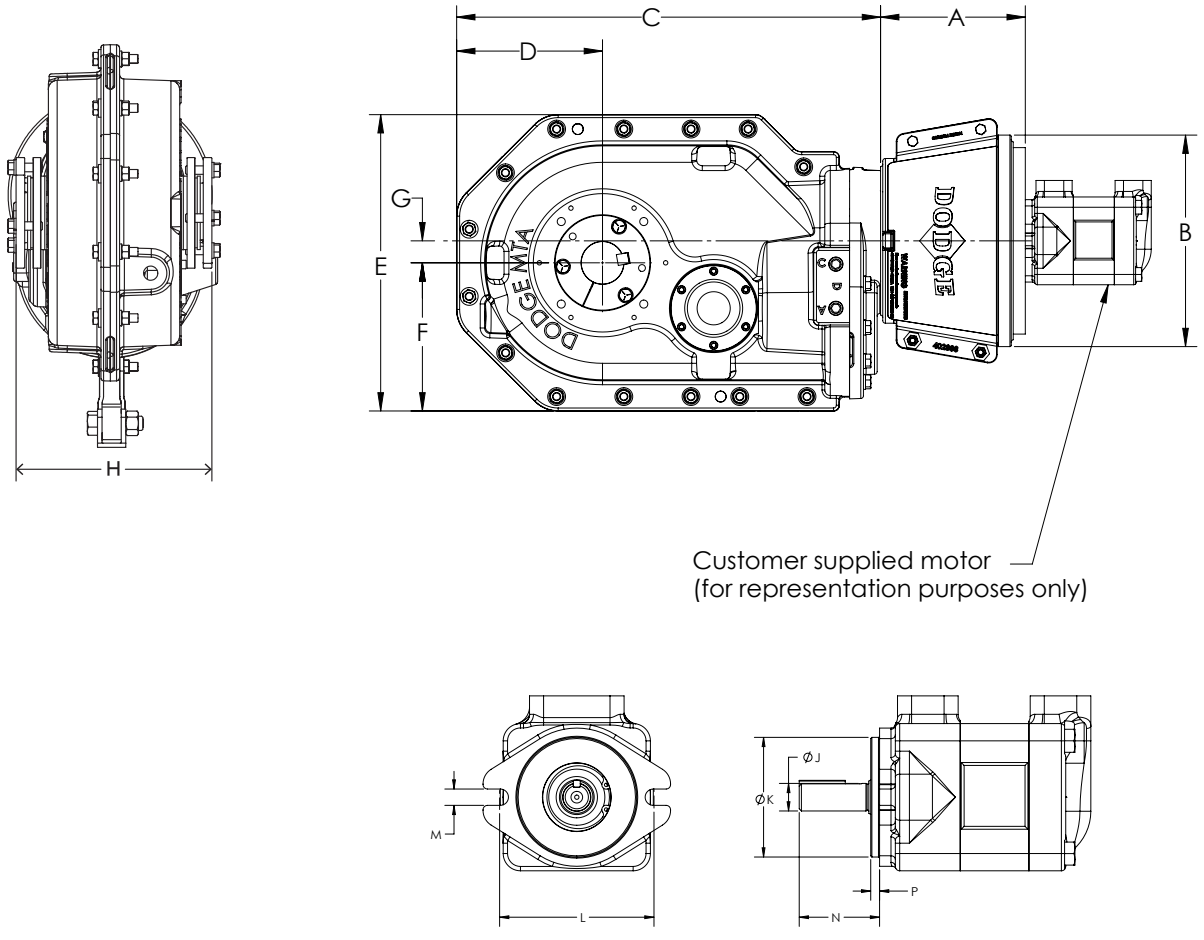
Backstop dimensions

MTA size	A - width from centerline	B - outer race diameter
2	4.05	3.92
3	4.76	4.12
4	5.11	4.93
5	5.76	5.72
6	6.42	6.51
7	7.10	7.10
8	8.58	8.26
9	9.02	8.28
10	10.43	11.42
12	13.51	11.42

All dimensions are in inches.

Hydraulic MTA

Shaft-mounted reducer



Reducer part number	Reducer ratio	Motor weight (lb)	Dimensions (in)														SAE flange	Rotex coupling size	Sample motor part number (parker)
			A	B	C	D	E	F	G	H	J	K	L	M	N	P			
M2H18THYD	17.68	155	6.59	9.63	19.30	6.64	13.48	6.75	1.00	7.55	0.75	3.25	4.19	0.44	2.18	0.24	SAE A 2 Bolt	28	M3B1-018-1N01-B101
M3H17THYD	17.46	210	6.59	9.63	21.43	7.30	14.82	7.41	0.79	8.62	0.75	3.25	4.19	0.44	2.18	0.24	SAE A 2 Bolt	28	M3B1-027-1N01-B101
M4H22THYD	21.82	270	6.59	9.63	24.19	8.44	16.89	8.44	1.08	8.73	0.75	3.25	4.19	0.44	2.18	0.24	SAE A 2 Bolt	28	M3B1-036-1N01-B101
M5H29THYD	29.41	370	7.32	9.63	28.16	9.68	19.31	9.64	0.55	10.33	0.88	4.00	5.75	0.56	2.81	0.38	SAE B 2 Bolt	38	M4C1-055-1N00-A102
M6H25THYD	24.43	475	7.32	9.63	31.38	10.70	21.39	10.70	0.91	10.83	1.25	5.00	7.13	0.69	2.19	0.50	SAE C 2 Bolt	38	M4C1-102-1N00-B102

* Typical motor dimensions to match motor adapter plate and Rotex® coupling size in kits. Other motors can be used but could require customer to provide own adapter plate and/or motor coupling hub.

*All motors to be customer supplied.

Accessories

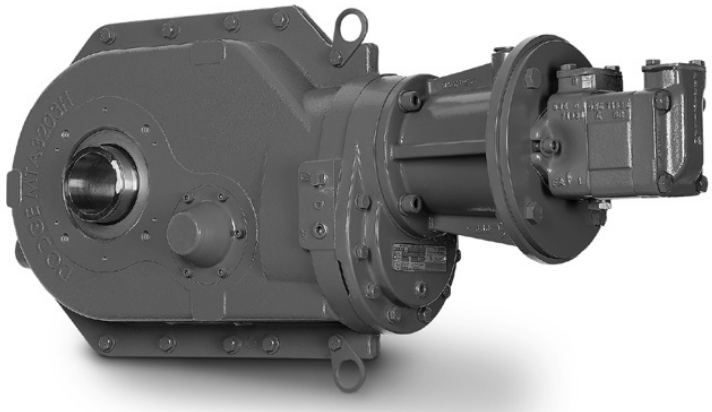
Use the same accessories per size as the regular MTA reducers.

M2 = G2-30/33; M3 = G2-34/37; M4 = G2-38/41; M5 = G2-42/45; M6 = G2-46/49

MTA hydraulic reducer components are not available for purchase as separate items.

These are only available to be ordered as a complete assembly.

Rating information



Class I ratings (1.0 service factor)

Reducer size	Continuous running torque (lb-in)	Peak running torque at max pressure (lb-in)	Requirements	Output speed (rpm)									
				20	25	30	35	40	45	50	55	60	65
M2H18THYD	6,500	8,063	Output hp (running)	2.5	3.2	3.8	4.5	5.1	5.7	6.4	7.0	7.6	8.3
M3H17THYD	10,321	13,687	Output hp (running)	4.5	5.6	6.8	7.9	9.0	10.1	11.3	12.4	13.5	14.6
M4H22THYD	16,696	22,688	Output hp (running)	7.0	8.7	10.5	12.2	13.9	15.7	17.4	19.2	20.9	22.7
M5H29THYD	30,146	37,229	Output hp (running)	11.9	14.9	17.8	20.8	23.8	26.8	29.7	32.7	35.7	38.7
M6H24THYD	40,000	54,793	Output hp (running)	15.6	19.5	23.4	27.2	31.1	35.0	38.9	42.8	46.7	50.6

Reducer size	Continuous running torque (lb-in)	Peak running torque at max pressure (lb-in)	Requirements	70	75	80	85	90	100	110	120	130
M2H18THYD	6,500	8,063	Output hp (running)	8.9	9.6	10.2	10.8	11.5	12.7	14.0	15.3	16.6
M3H17THYD	10,321	13,687	Output hp (running)	15.8	16.9	18.0	19.1	20.3	22.5	24.8		
M4H22THYD	16,696	22,688	Output hp (running)	24.4	26.1	27.9	29.6					
M5H29THYD	30,146	37,229	Output hp (running)	41.6	41.6	41.6						
M6H24THYD	40,000	54,793	Output hp (running)	54.5	58.4	62.3						

Class II ratings (1.4 service factor)

Reducer size	Continuous running torque (lb-in)	Peak running torque at max pressure (lb-in)	Requirements	Output speed (rpm)									
				20	25	30	35	40	45	50	55	60	65
M2H18THYD	6,500	8,063	Output hp (running)	1.8	2.3	2.7	3.2	3.6	4.1	4.5	5.0	5.5	5.9
M3H17THYD	10,321	3,687	Output hp (running)	3.2	4.0	4.8	5.6	6.4	7.2	8.0	8.8	9.6	10.5
M4H22THYD	16,696	22,688	Output hp (running)	5.0	6.2	7.5	8.7	10.0	11.2	12.4	13.7	14.9	16.2
M5H29THYD	30,146	37,229	Output hp (running)	8.5	10.6	12.7	14.9	17.0	19.1	21.2	23.4	25.5	27.6
M6H24THYD	40,000	54,793	Output hp (running)	11.1	13.9	16.7	19.5	22.2	25.0	27.8	30.6	33.4	36.1

Reducer size	Continuous running torque (lb-in)	Peak running torque at max pressure (lb-in)	Requirements	70	75	80	85	90	100	110	120	130
M2H18THYD	6,500	8,063	Output hp (running)	6.4	6.8	7.3	7.7	8.2	9.1	10.0	10.9	11.8
M3H17THYD	10,321	13,687	Output hp (running)	11.3	12.1	12.9	13.7	14.5	16.1	17.7		
M4H22THYD	16,696	22,688	Output hp (running)	17.4	18.7	19.9	21.2					
M5H29THYD	30,146	37,229	Output hp (running)	29.7	29.7	29.7						
M6H24THYD	40,000	54,793	Output hp (running)	38.9	41.7	44.5						

Values reflected in the charts above reflect the use of motors recommended by Dodge Engineering

Engineering and technical data
Lubrication

Recommended lubricants for MTA reducers *

Standard oils			EP oils	
Exxon				
150		150		150
220	Teresstic	220	Spartan EP	220
320		320		320
Chevron				
150		150		150
220	Machine	220	Gear Compound EP	220
320		320		320
Unical				
150		150		141
220	Turbine Oil	220	Extra Duty HL Gear Lube	207
320		320		300
Kluber synthetic				
150		150N		—
220	GEM4	220N	—	—
320		320N		—
Kluber				
150		150N		—
220	GEM1	220N	—	—
320		320N		—
Mobil synthetic				
150		150		150
220	SHC	220	SHC Gear	220
320		320		320
Mobil				
150		Extra Heavy	MobilGear 600 XP	150
220	Mobil DTE	BB		220
320		AA		320
Texaco				
150		150		150
220	Regal Oil R and O	220	Meropa	220
320		320		320
Shell synthetic				
150		150		—
220	Morlina S4 B	220	—	—
320		320		—
Shell				
150		150		150
220	Morlina S2 B Morlina S3 B	220	Omala S2 G	220
320		320		320

* Partial list; consult Dodge Application Engineering at +1 864 284 5700, or a lubricant manufacturer's website,for additional options and updated oil nomenclature

Table 1–Oil recommendations

ISO grades for ambient temperatures of 50 °F to 125 °F

Output speed (rpm)	MTA reducer size									
	2115H	3203H	4207H	5215H	6307H	7315H	8407H	9415H	10507H	12608H
151—200	320	220	220	220	220	220	220	220	220	220
126—150	320	220	220	220	220	220	220	220	220	220
101—125	320	320	220	220	220	220	220	220	220	220
81—100	320	320	320	220	220	220	220	220	220	220
41—80	320	320	320	220	220	220	220	220	220	220
11—40	320	320	320	320	320	320	320	320	220	220
1—10	320	320	320	320	320	320	320	320	320	320

Table 2–Oil recommendations

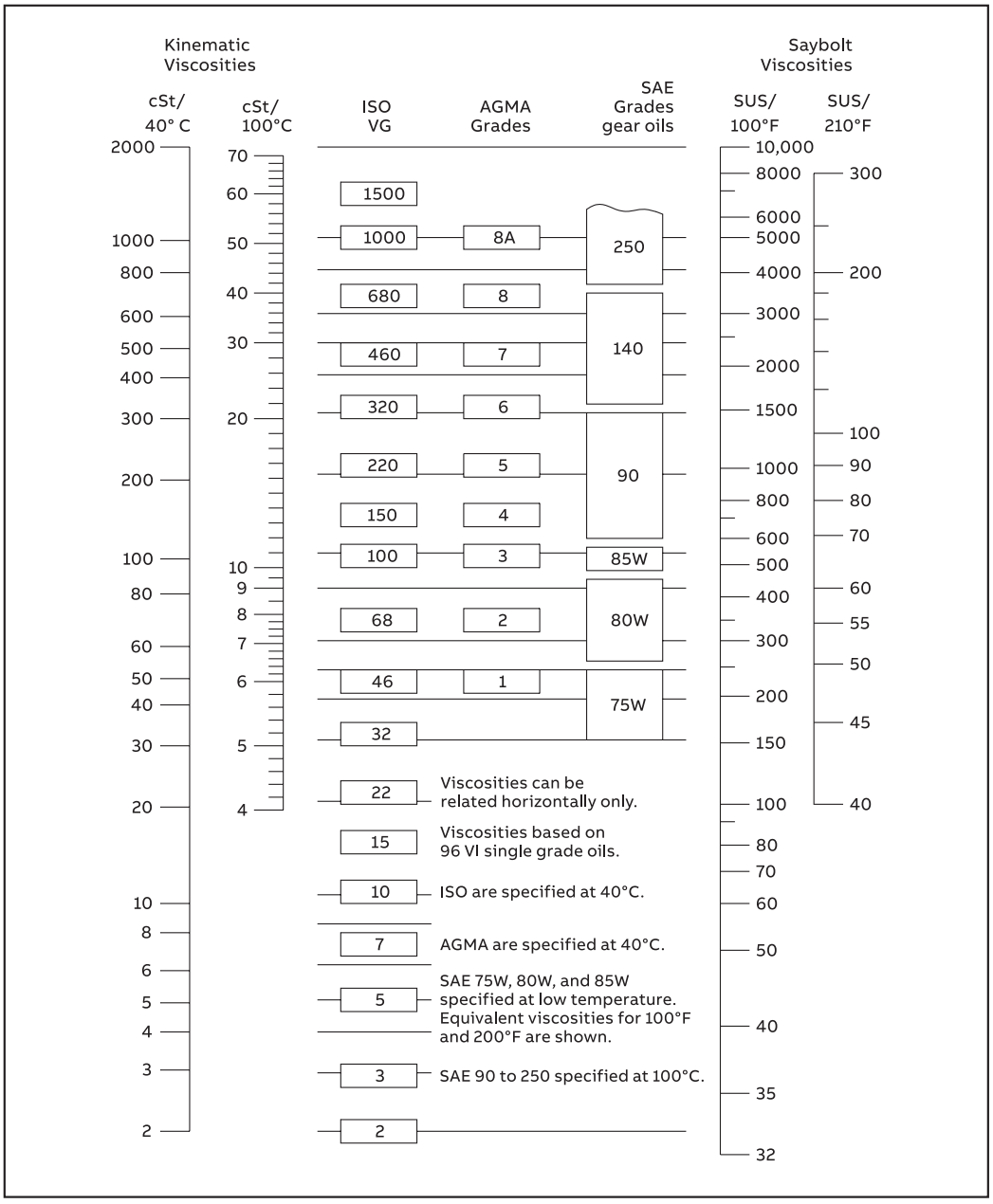
ISO grades for ambient temperatures of 15 °F to 60 °F

MTA reducer size									
2115H	3203H	4207H	5215H	6307H	7315H	8407H	9415H	10507H	12608H
220	150	150	150	150	150	150	150	150	150
220	150	150	150	150	150	150	150	150	150
220	220	150	150	150	150	150	150	150	150
220	220	220	150	150	150	150	150	150	150
220	220	220	150	150	150	150	150	150	150
220	220	220	220	220	220	220	220	150	150
220	220	220	220	220	220	220	220	220	220

(1) Assumes auxiliary cooling where recommended in the catalog.
(2) Pour point of lubricant selected should be at least 10 °F lower than expected minimum ambient starting temperature.
(3) EP lubricants are not necessary for average operating conditions. When properly selected for specific applications, TA II backstops are suitable for use with EP lubricants.
(4) Special lubricants may be required for food and drug industry applications where contact with the product being manufactured may occur. Consult a lubrication manufacturer's representative for recommendations.
(5) For reducers operating in ambient temperatures between -22 °F (-30 °C) and 20 °F (-6.6 °C), use a synthetic hydrocarbon lubricant, 100 ISO grade or AGMA 3 grade (example: Mobil SHC627). Above 125 °F (51 °C), consult Dodge Application Engineering at +1 864 297 4800.
(6) Mobil SHC630 Series oil is recommended for high ambient temperatures.

Viscosity classification equivalents

Oil viscosity equivalency chart



ISO viscosity classification system

All industrial oils are graded according to the ISO Viscosity Classification System, approved by the International Standards Organizations (ISO). Each ISO viscosity grade number corresponds to the mid-point of viscosity range expressed in centistokes (cSt) at 40 °C. For example, a lubricant with an ISO grade of 32 has a viscosity within the range of 28.80—35.2, the midpoint of which is 32.

Rule of thumb

The comparable ISO grade of a competitive product whose viscosity in SUS at 100 °F is known can be determined by using the following conversion formula:

SUS @ 100 °F ÷ 5 = cSt @ 40 °C

Guidelines for long-term storage

During periods of long storage (3 months or more), or when awaiting delivery or installation of other equipment, special care should be taken to protect a gear reducer to have it in the best condition when placed into service.

By taking special precautions, problems such as seal leakage and reducer failure due to the lack of lubrication, improper lubrication quantity, or contamination can be avoided. The following precautions will protect gear reducers during periods of extended storage.

Preparation

1. Drain the oil from the unit. Add a vapor phase corrosion inhibiting oil such as Nox-Rust 1100 oil by Daubert Chemical Co.
2. Seal the unit air tight. Replace the vent plug with standard pipe plug and wire the vent to the unit.
3. Cover the shaft extension with a waxy rust preventive compound that will keep oxygen away from the bare metal such as Non-Rust X-110 by Daubert Chemical Co.
4. The instruction manuals and lubrication tags are paper and must be kept dry. Either remove these documents and store them inside or cover the unit with a durable waterproof cover which can keep moisture away.
5. Protect the reducer from dust, moisture, and other contaminants by storing the unit in a dry area.
6. In damp environments, the reducer should be packed inside a moisture-proof container or an envelope of plastic containing a desiccant material. If the reducer is to be stored outdoors, cover the entire exterior with a rust preventive.
7. Once a month rotate the input shaft at least 30 revolutions to redistribute the weight of gears and shafts and to prevent brinnelling of the bearings and drying of the seal track.

When placing the reducer into service

1. Assemble the vent plug into the proper hole.
2. Clean the shaft extensions with petroleum solvents.
3. Fill the unit to the proper oil level using a recommended lubricant. The Nox-Rust oil will not affect the new lubricant.
4. Follow the installation instructions provided with the unit.

Nox-Rust 1100 oil for MTA reducers

Family	Size	Nox-Rust quantity (Ounces)	Nox-Rust quantity (Milliliters)
MTA	2	1	30
MTA	3	1	30
MTA	4	1	30
MTA	5	2	59
MTA	6	3	89
MTA	7	4	118
MTA	8	6	177
MTA	9	8	237
MTA	10	11	325
MTA	12	16	473
		12	355
		17	503
		24	710
		32	946

Accessories
MTA



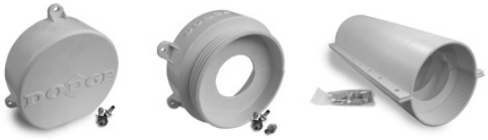
Standard twin-tapered bushing system

The twin-tapered bushing system is an easy on, easy off, no-wobble bushing system featuring a fully split, ductile iron eight degree taper, and reliable twin support. TA II and MTA gear reducers feature bore sizes larger than the standard AGMA specification for their case size, enabling reducer downsizing without requiring a shaft turndown.



Short-shaft twin-tapered bushing kits

Eliminate the need for full-length shafts. Constructed with ductile iron, it has all the features of our standard bushing system. Available in both inch and metric bores. The patented, insertable tapered wedge enables the optional extended tapered bushing kit to be applied for shorter shaft lengths, allowing the replacement of straight bore reducers.



Bushing covers

Provide protection from the spinning bushing bolts and offer an added layer of contamination protection. MTA is drilled and tapped for the heavy-duty ABS covers.



Backstop

The backstop option helps prevent reverse rotation in high stop-start loads, and results in less wear for longer life. Its centrifugal sprag design operates with standard and EP lubricants and requires no external lubrication. MTA reducers require a larger backstop than equivalent TA II.



Torque arm tie rod kit

Ruggedly constructed, the tie rod kit includes standard brackets and offers universal mounting options.



Screw conveyor adapter

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. An optional adjustable packing kit bolts to the standard adapter and provides a proven sealing option for hostile environments. Packing can be retightened.



Driveshafts

The screw conveyor driveshafts are made from high alloy steel and engineered to CEMA dimensions. They are three-bolt drilled and their tapered fit ensures simple installation. The rugged locking plate also provides a mechanical shaft removal feature. #316 stainless-steel driveshafts are also available.

Breather technology



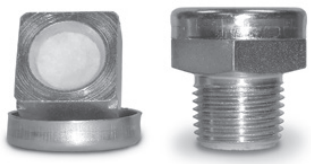
Hydra-Lock desiccant breather

- Built-in standpipe
- Three 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 and remains closed when it is not running



OPTIFY Breather

- Proprietary, detachable sensor module for connection with the OPTIFY platform for remote condition monitoring
- Silica gel beads eliminate moisture contamination, providing a higher capacity and longer life than standard desiccant media
- Polyester filter elements reduce airborne solid particle contamination to a three-micron absolute
- Naturally aspirated with no fixed volume, preventing the build-up of pressure for increased seal effectiveness



Standard 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)



Fully-enclosed canister breather

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



Position D breather kit

- Option ideal for use when reducer is mounted in position D (G2-75)
- Includes enclosed breather, sight glass, and all necessary piping to allow for fitment to all sizes of MTA

Harsh-duty accessories

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers					
	Closed	Weight (lb)	Split cover only	Weight (lb)	Split cover/guard adapter*	Weight (lb)
TA2115H	902142	0.6	902143	0.5	020546	3
TA3203H	903142	0.6	903143	0.5	020547	3
TA4207H	904142	1.2	904143	1.0	020548	3
TA5215H	905142	1.5	905143	1.0	020549	3
TA6307H	905142	1.5	905143	1.0	020550	4
TA7315H	907142	1.6	907143	1.1	020551	4
TA8407H	908142	1.7	908143	1.2	020552	5
TA9415H	909142	1.9	905143	1.0	020553	5
TA10507H	910142	2.0	907143	1.1	020554	6
TA12608H	912142	3.0	908143	1.2	020555	6

End covers fit both the input side and backstop side of MTA reducer
* Split cover/guard adapter, see page G2-70 for details

V-ring seal kits

Reducer size	Part	Weight (lb)
MTA2115H	902249	0.1
MTA3203H	903249	0.1
MTA4207H	904249	0.2
MTA5215H	905249	0.2
MTA6307H	906249	0.3
MTA7315H	907249	0.4
MTA8407H	908249	0.4
OPTIFY Performance Sensor	820000	0.5

Harsh-duty breathers

Reducer size	Part number
Enclosed chamber	
MTA2—MTA8	240050
Hydra-Lock breathers	
MTA2—MTA3	964372
MTA4—MTA8	964364
MTA9—MTA12	964366
Motor in Position D	
Position D breather kit	472300

Engineering information

Thrust capacity for screw conveyor drives (lb)

Case size	Output speed (rpm)								
	10	25	50	75	100	125	150	175	200
MTA2115H	6,000	6,000	6,000	5,323	4,850	4,550	4,295	4,086	3,924
MTA3203H	6,000	6,000	6,000	6,000	5,761	5,328	5,020	4,813	4,636
MTA4207H	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
MTA5215H	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
MTA6307H	6,000	6,000	6,000	5,885	5,185	4,706	4,435	4,303	4,269
MTA7315H	†	†	†	†	†	†	†	†	†
MTA8407H	—	—	—	—	—	—	—	—	—
MTA9415H	—	—	—	—	—	—	—	—	—
MTA10507H	—	—	—	—	—	—	—	—	—
MTA12608H	—	—	—	—	—	—	—	—	—

† - Consult Dodge Application Engineering at +1 864 284 5700

Horsepower (hp)	NEMA motor frame		Shaft diameter (in)
	4 pole	2 pole	
3	182T	182T	1-1/8
5	184T	184T	1-1/8
7-1/2	213T	213T	1-3/8
10	215T	215T	1-3/8
15	254T	254T	1-5/8
20	256T	256T	1-5/8

Horsepower (hp)	NEMA motor frame			
	4 pole	Shaft diameter (in)	2 pole	Shaft diameter (in)
25	284T	1-7/8	284TS	1-5/8
30	286T	1-7/8	286TS	1-5/8
40	324T	2-1/8	324TS	1-7/8
50	326T	2-1/8	326TS	1-7/8
60	364T	2-3/8	364TS	1-7/8
75	365T	2-3/8	365TS	1-7/8
100	405T	2-7/8	405TS	2-1/8

Bushing and shaft guards

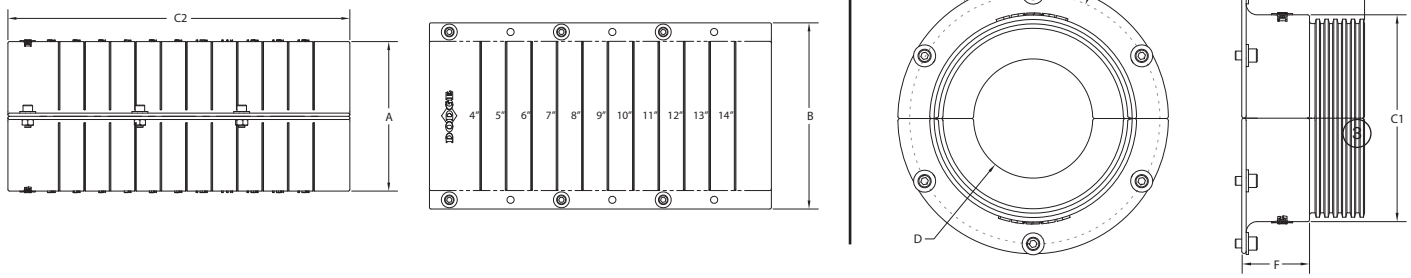
Dimensions

Shaft guard

Size	Part number	A Ext. OD	B Ext. width	C2 Ext. length	D Barrier ID	C2 + F Assembly length
2	020570	4.75	6.44	10.94	2.91	12.82
3	020571	5.25	6.94	11.88	3.01	13.77
4	020572	5.88	7.57	13.44	3.38	15.37
5	020573	6.75	8.69	15.94	3.90	18.24
6	020574	6.88	8.82	17.19	4.32	19.52
7	020575	8.13	10.07	22.19	5.03	24.76
8	020576	8.38	10.32	22.19	5.03	24.76
9	020577	9.63	11.57	24.69	5.87	27.53
10	020578	10.63	12.95	30.00	6.84	32.88
12	020579	11.88	14.20	35.00	7.79	37.91

Adapter

Size	Part number	A Flange OD	B Number of holes	B Bolt pattern	C1 Adapter OD	D Barrier ID	E Overall length	F Unthreaded length
2	020546	6.31	6	5.75	4.75	2.91	3.19	1.88
3	020547	6.94	6	6.38	5.25	3.01	3.20	1.89
4	020548	7.68	6	7.12	5.88	3.38	3.49	1.93
5	020549	8.81	6	8.25	6.75	3.90	4.36	2.30
6	020550	8.81	6	8.25	6.88	4.34	4.39	2.33
7	020551	10.31	6	9.75	8.13	5.03	4.88	2.57
8	020552	10.56	6	10.00	8.38	5.03	4.88	2.57
9	020553	10.94	6	10.38	9.63	5.87	5.40	2.84
10	020554	12.06	6	11.50	10.63	6.84	5.44	2.88
12	020555	13.44	6	12.88	11.88	7.79	5.47	2.91



Part numbers

Shaft guard kits

Reducer size	Part number	Description	Weight (lb)
MTA2115	TAShaftGuard-02	TA2115 shaft guard	7
MTA3203	TAShaftGuard-03	TA3203 shaft guard	7
MTA4207	TAShaftGuard-04	TA4207 shaft guard	7
MTA5215	TAShaftGuard-05	TA5215 shaft guard	7
MTA6307	TAShaftGuard-06	TA6307 shaft guard	9
MTA7315	TAShaftGuard-07	TA7315 shaft guard	9
MTA8407	TAShaftGuard-08	TA8407 shaft guard	11
MTA9415	TAShaftGuard-09	TA9415 shaft guard	11
MTA10507	TAShaftGuard-10	TA10507 shaft guard	13
MTA12608	TAShaftGuard-12	TA12608 shaft guard	13

Kits include adapter and extension specific to that size.

Shaft guard parts

Reducer size	Part number	Description	Weight (lb)
MTA2115	020546	TA2115 guard adapter	3
MTA2115	020570	TA2115 guard extension	4
MTA3203	020547	TA3203 guard adapter	3
MTA3203	020571	TA3203 guard extension	4
MTA4207	020548	TA4207 guard adapter	3
MTA4207	020572	TA4207 guard extension	4
MTA5215	020549	TA5215 guard adapter	3
MTA5215	020573	TA5215 guard extension	4
MTA6307	020550	TA6307 guard adapter	4
MTA6307	020574	TA6307 guard extension	5
MTA7315	020551	TA7315 guard adapter	4
MTA7315	020575	TA7315 guard extension	5
MTA8407	020552	TA8407 guard adapter	5
MTA8407	020576	TA8407 guard extension	6
MTA9415	020553	TA9415 guard adapter	5
MTA9415	020577	TA9415 guard extension	6
MTA10507	020554	TA10507 guard adapter	6
MTA10507	020578	TA10507 guard extension	7
MTA12608	020555	TA12608 guard adapter	6
MTA12608	020579	TA12608 guard extension	7

To guard entire shaft, one adapter and one extension are required.

Bushing covers (outboard)

Reducer size	Closed Part number	Weight (lb)
MTA2115H	902142	0.6
MTA3203H	903142	0.6
MTA4207H	904142	1.2
MTA5215H	905142	1.5
MTA6307H	905142	1.5
MTA7315H	907142	1.6
MTA8407H	908142	1.7
MTA9415H	909142	1.5
MTA10507H	910142	1.6
MTA12608H	912142	1.7

Bushing covers fit both the backstop side and non-backstop side of the MTA reducer.

Reliability kits

For gearboxes operating under extreme conditions, reliability kits enhance durability and longevity—ensuring consistent performance and maximum uptime for critical equipment while reducing maintenance needs. Additionally, reliability kits allow for remote oil level checks of a running gearbox, contributing to a safer working environment.

Creates a closed-loop system that eliminates the introduction of any outside air or contaminants.

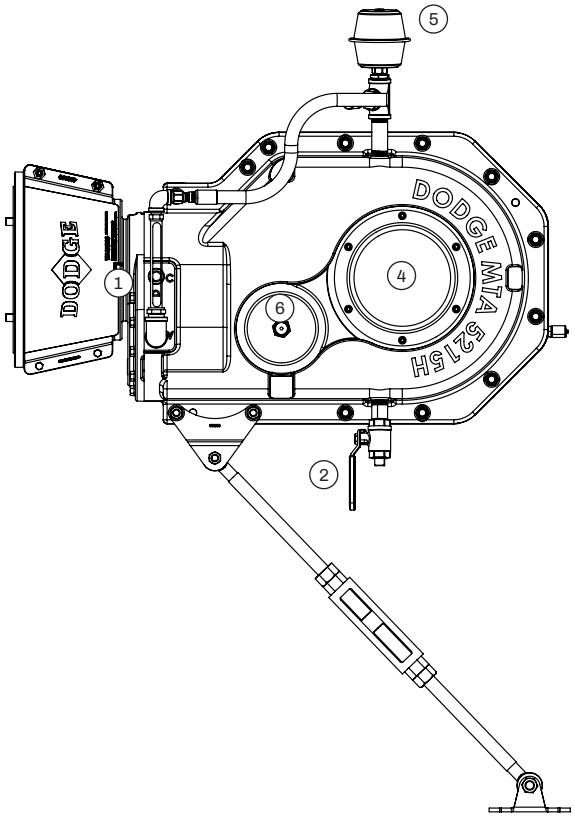
Kits for MTA sizes 2—8 are for position D, and sizes 9—12 are for position C. Position C is the preferred mounting for MTA regardless of size. Rearrangement or additional fittings may be required when using kits in alternate positions.

A kit includes:

1. Large, vented oil sight tube with custom-length, closed-loop piping
2. Quick drain valve
3. Quick oil sampling port
4. ABS bushing covers, closed cover, and a split cover for the backside
5. Enclosed breather

When application reliability is critical to maximizing operation uptime, you can utilize condition monitoring technology:

6. Sensor-ready port (OPTIFY Performance Sensor sold separately, part number 820000)



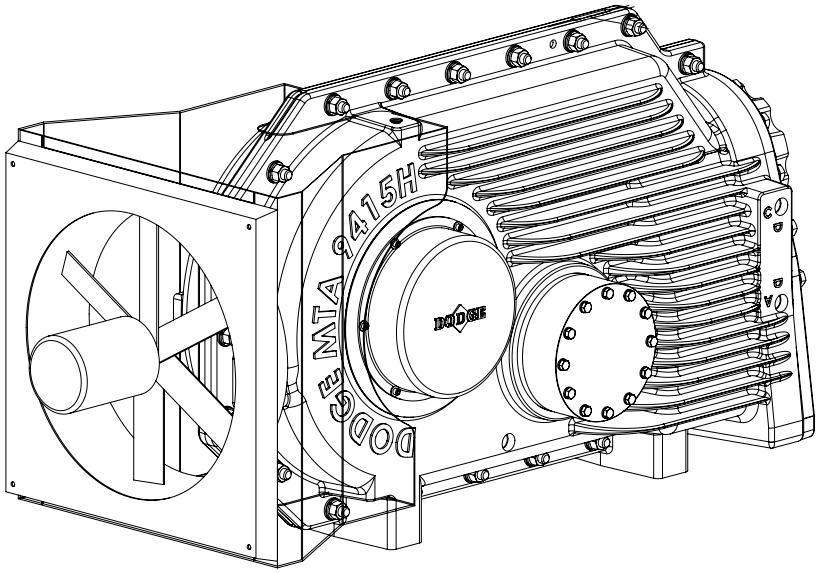
MTA

Description	Position*	Part number
MTA2115 reliability kit	D	MTA2RELKIT
MTA3203 reliability kit	D	MTA3RELKIT
MTA4207 reliability kit	D	MTA4RELKIT
MTA5215 reliability kit	D	MTA5RELKIT
MTA6307 reliability kit	D	MTA6RELKIT
MTA7315 reliability kit	D	MTA7RELKIT
MTA8407 reliability kit	D	MTA8RELKIT
MTA9415 reliability kit	C	MTA9RELKIT
MTA10507 reliability kit	C	MTA10RELKIT
MTA12608 reliability kit	C	MTA12RELKIT

*Reliability kits contain components to install in the most common configuration (noted above). Installation is possible in a different configuration, but may require different fittings that are available at any local hardware supplier.

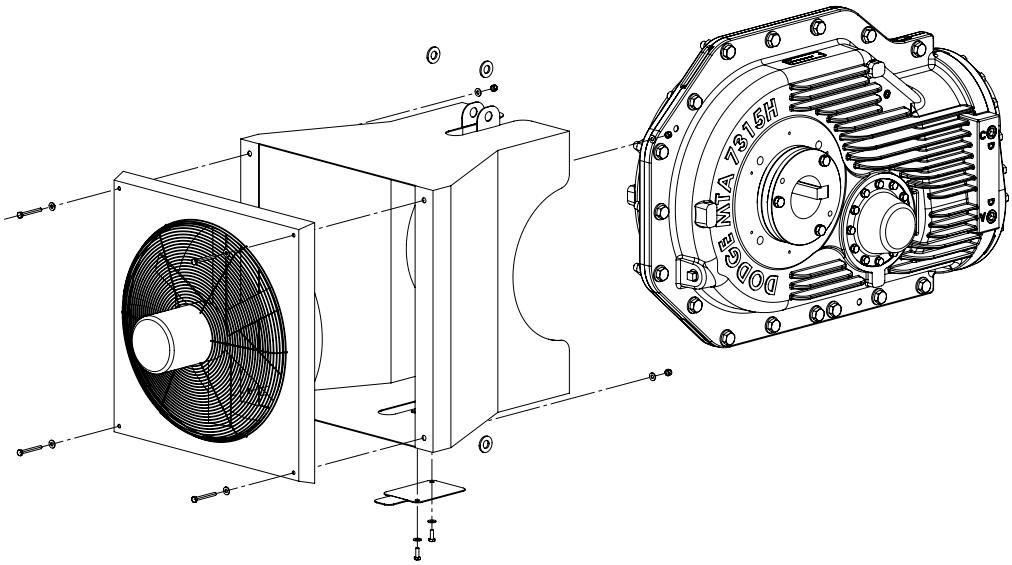
The position D kit creates a closed-loop system that eliminates the introduction of any outside air or contaminants. It also allows you to check the oil level from a distance, contributing to a safer environment by eliminating the need to approach running equipment. The position D kits use the enclosed breather and position C kits use Hydra-Lock.

Optional electric cooling fans



Electric cooling fans are available for MTA reducers sizes 7—12. These fans increase the reducer's thermal capacity, helping extend oil life for reliable, long-lasting operation.

Electric cooling fans may be required for C-face motors operating at 3,600 rpm and when the reducer is mounted in position D. Additionally when the combination of the reducer, motor, ambient temperature, and altitude make the thermal capacity less than the connected motor horsepower.



Renewal parts

MTA reducer

Seal kits[5] C-face only

Reducer size	Part number	Weight (lb)
MTA2115H	M2SEALKIT	0.60
MTA3203H	M3SEALKIT	0.8
MTA4207H	M4SEALKIT	1.00
MTA5215H	M5SEALKIT	1.2
MTA6307H	M6SEALKIT	1.50
MTA7315H	M7SEALKIT	1.65
MTA8407H	M8SEALKIT	1.75

(5) Kit includes two output seals, one input seal, and two output excluder seals

Backstop cover and gasket kit [6]

Reducer size	Part number	Weight (lb)
MTA2115H	M2BSCVRKIT	0.40
MTA3203H	M3BSCVRKIT	0.45
MTA4207H	M4BSCVRKIT	0.50
MTA5215H	M5BSCVRKIT	0.60
MTA6307H	M6BSCVRKIT	0.70
MTA7315H	M7BSCVRKIT	0.80
MTA8407H	M8DSCVRKIT	0.85

(6) Kit includes backstop cover and cork gasket

Coupling assembly replacement kit [7] (solid adapter only)

Reducer size	180C	210C	250C	280C	280TSC	—
MTA2115H	M2-18CPLKIT	M2-21CPLKIT	M2-25CPLKIT	—	—	—
MTA3203H	M3-18CPLKIT	M3-21CPLKIT	M3-25CPLKIT	—	M3-28CPLKITTSC	—
MTA4207H	M4-18CPLKIT	M4-21CPLKIT	M4-25CPLKIT	M4-28CPLKIT	M4-28CPLKITTSC	—
MTA5215H	M5-18CPLKIT	M5-21CPLKIT	M5-25CPLKIT	M5-28CPLKIT	M5-28CPLKITTSC	—
MTA6307H	—	M6-21CPLKIT	M6-25CPLKIT	M6-28CPLKIT	M6-28CPLKITTSC	—
MTA7315H	—	M7-21CPLKIT	M7-25CPLKIT	M7-28CPLKIT	M7-28CPLKITTSC	—
MTA8407H	—	M8-21CPLKIT	M8-25CPLKIT	M8-28CPLKIT	M8-28CPLKITTSC	—
	320C	**320TSC**	**360C**	**360TSC**	**405C**	**405TSC**
MTA2115H	—	—	—	—	—	—
MTA3203H	—	—	—	—	—	—
MTA4207H	—	M4-32CPLKITTSC	—	—	—	—
MTA5215H	M5-32CPLKIT	M5-32CPLKITTSC	M5-36CPLKIT	M5-36CPLKITTSC	—	—
MTA6307H	M6-32CPLKIT	M6-32CPLKITTSC	M6-36CPLKIT	M6-36CPLKITTSC	—	—
MTA7315H	M7-32CPLKIT	M7-32CPLKITTSC	M7-36CPLKIT	M7-36CPLKITTSC	M7-40CPLKIT	M7-40CPLKITTSC
MTA8407H	M8-32CPLKIT	M8-32CPLKITTSC	M8-36CPLKIT	M8-36CPLKITTSC	M8-40CPLKIT	M8-40CPLKITTSC

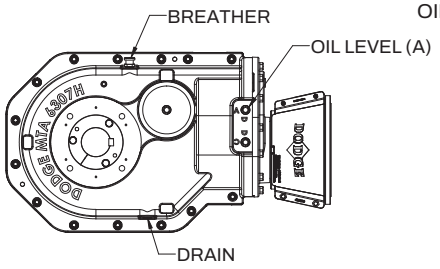
(7) Kit includes two coupling halves and element

Coupling (element) replacement (solid adapter only)

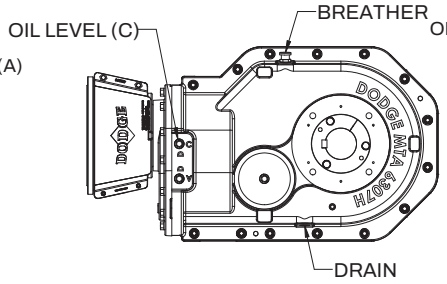
Reducer Size	180C	210C	250C	280C	280TSC	—
MTA2115H	334291	334291	334291	—	—	—
MTA3203H	334291	334291	334291	—	334291	—
MTA4207H	454424	454424	454424	454424	454424	—
MTA5215H	454424	454424	454424	454424	454424	—
MTA6307H	—	454424	454424	454424	454424	—
MTA7315H	—	454424	454424	454424	454424	—
MTA8407H	—	454424	454424	454424	454424	—
	320C	**320TSC**	**360C**	**360TSC**	**405C**	**405TSC**
MTA2115H	—	—	—	—	—	—
MTA3203H	—	—	—	—	—	—
MTA4207H	454434	454434	—	—	—	—
MTA5215H	454434	454434	454434	454434	—	—
MTA6307H	454434	454434	454434	454434	—	—
MTA7315H	454434	454434	454434	454434	454434	454434
MTA8407H	454434	454434	454434	454434	454434	454434

Mounting positions

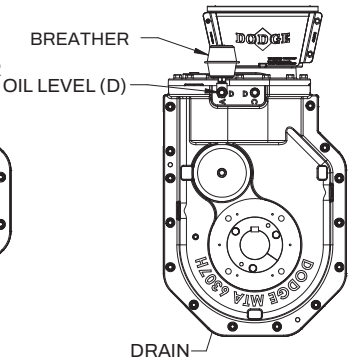
HORIZONTAL MOUNTING



POSITION A

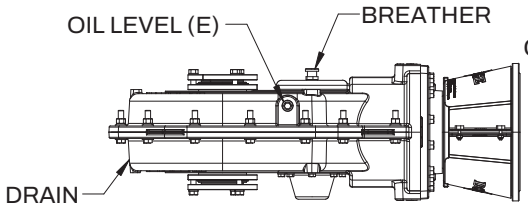


POSITION C

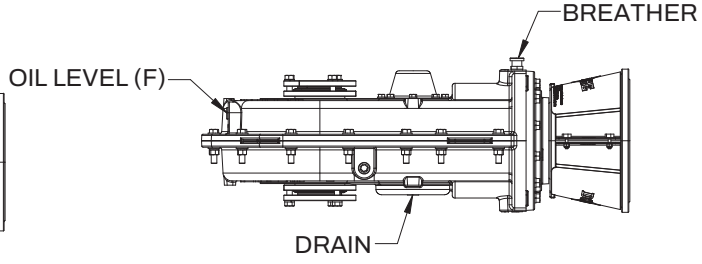


POSITION D

VERTICAL MOUNTING



POSITION E



POSITION F

Approximate oil volumes

Case size	Oil volume in quarts ■ ● ◘						Oil volume in liters ■ ● ◘					
	Horizontal				Vertical		Horizontal				Vertical	
	A	B	C	Dv	E (up)	F (down)	A	B	C	Dv	E (up)	F (down)
MTA2115H	4-1/4	◘	3-5/8	7	5-3/8	5-5/8	3-3/4	◘	3-1/2	6-5/8	5	5-3/8
MTA3203H	6-3/8	◘	4-3/8	9-3/4	7-3/8	7-5/8	6	◘	4-1/8	9-1/4	7	7-1/8
MTA4207H	8-1/4	◘	6-3/4	13-1/8	9-1/4	9-5/8	7-7/8	◘	6-3/8	12-3/8	8-7/8	9-1/8
MTA5215H	14	◘	10-1/8	21	16	16-7/8	13-1/4	◘	9-5/8	20	15-1/8	16
MTA6307H	18-3/8	◘	15-3/8	30-1/8	23-1/2	24-7/8	17-3/8	◘	14-1/2	28-1/2	22-1/4	23-1/2
MTA7315H	25	◘	19-5/8	38-1/4	23-1/4	26-1/2	23-5/8	◘	18-1/2	36-1/2	22	25-1/8
MTA8407H	29-1/8	◘	22-5/8	52	31-3/4	31-3/4	27-5/8	◘	21-3/8	49-1/4	30	30
MTA9415H	◘	◘	36	◘	◘	◘	◘	◘	34	◘	◘	◘
MTA1050H	◘	◘	50-1/2	◘	◘	◘	◘	◘	47-3/4	◘	◘	◘
MTA12608H	◘	◘	90	◘	◘	◘	◘	◘	85-1/4	◘	◘	◘

■ Oil quantity is approximate. Service with lubricant until oil runs out of oil level hole as indicated per drawings in figure 1.

● Below 15 rpm output speed, oil level must be adjusted to reach the highest oil level plug. If reducer position is to vary from those shown in Figure 1, either more or less oil may be required. Consult Dodge Application Engineering at +1 864 284 5700

◘ For positions not shown contact Dodge Application Engineering

❷ For position D, it is recommended to use a position D breather kit (part number 472300)

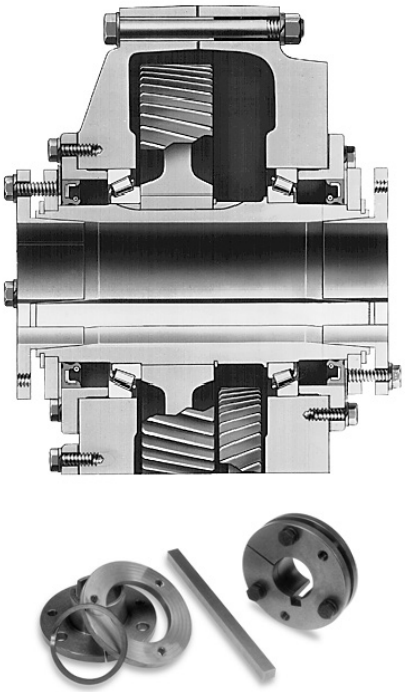
All MTA gearboxes are equipped with sensor-ready port plugs

Notes

Torque-Arm

G3-1 Torque-Arm
G3-2 Features and benefits
G3-5 Accessories
G3-12 Torque-Arm (TXT)
G3-13 Selection procedures
G3-22 Selection and dimensions
G3-22 TXT1E—TXT105E
G3-26 TXT2E—TXT205E
G3-30 TXT3E—TXT305E
G3-34 TXT4E—TXT405E
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G3-42 TXT6E—TXT605E
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G3-80 SCXT1E—SCXT105E
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G3-117 Hydroil Torque-Arm (HXT)
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G3-150 Engineering and technical data

Features and benefits
Torque-Arm



Twin-tapered bushings

Torque-Arm shaft-mounted reducers are offered in 14 case sizes through 700 horsepower.

Improved features and capabilities include:

- 14 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 system to accommodate shafts from 1 inch through 10 inches
- Reducers available for shaft-mounted, screw conveyor, vertical and flange-mounted, and hydraulic applications

Our patented twin-tapered bushings have provided customers over 50 years of reliable and proven service. This exclusive feature revolutionized the shaft-mount reducer concept and insured that Torque-Arm 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 700 horsepower.

Dodge output hubs for taper-bushed applications are tapered on both sides to pair with our industry-leading twin-tapered bushing system. The inner taper of the hub mates against the outer surface of the matching bushing providing fast, reliable installation and dismount processes.

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.

Torque-Arm reducers incorporate standard Dodge features

- Ratios up to 210:1
- Capacities fractional to 700 horsepower
- Output speeds through 400 rpm
- Trouble-free maintenance
- Up-front installation savings
- 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 percent 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 keep 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 Torque-Arm reducers are 100 percent factory noise and leak tested to assure long life and trouble-free service.

Shaft-mount speed reducers

1. Precision high quality gearing

- Designed helical gears
- 98.5 percent 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 standards

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

- Meets AGMA class I L_{10} bearing life 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. Harsh-duty seals to withstand any environment

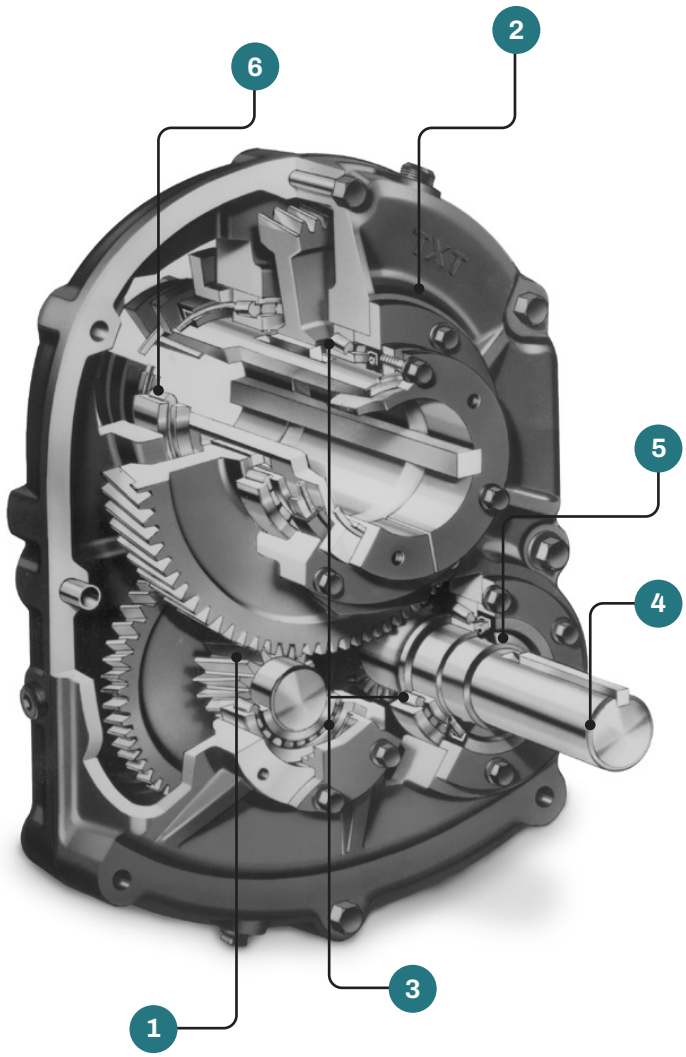
- Lip spring-loaded construction
- Metal reinforcement for strength
- Oil seals have an operating temperature range of -40 °F to 300 °F (-40 °C to 150 °C)
- Compatible with both mineral and synthetic lubricants
- 100 percent factory-tested before shipment
- Smooth ground shaft surfaces for maximum life

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
- Dodge offers multiple breather options to fit your application needs
- Magnetic drain plug for protection

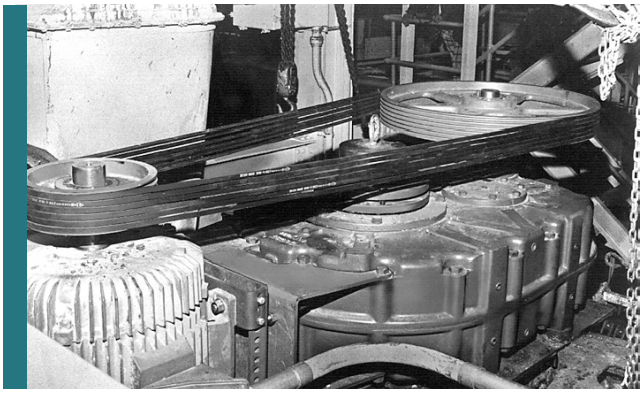
Torque-Arm is the leading shaft-mount reducer because:

- **Innovation** - TXT double-reduction E-revision shaft mount reducers have backstops compatible with EP lubricants
- **Safety** - All TXT-E revision have optional bushing covers and shaft guard kits, available through size TXT12
- **Delivery** - Over 5,000 reducers and 20,000 accessories in stock
- **Quality** - Warranties of less than 0.5 percent of sales
- **Experience** - Field-proven since 1949
- **Twin-tapered bushings** - Reliable installation and removal
- **Performance capability** - Applications through 700 horsepower
- **Product configurations** - TXT, SCXT, and HXT
- **Accessory package** - Motor mount, backstop, bushings and auxiliary seals



Application flexibility

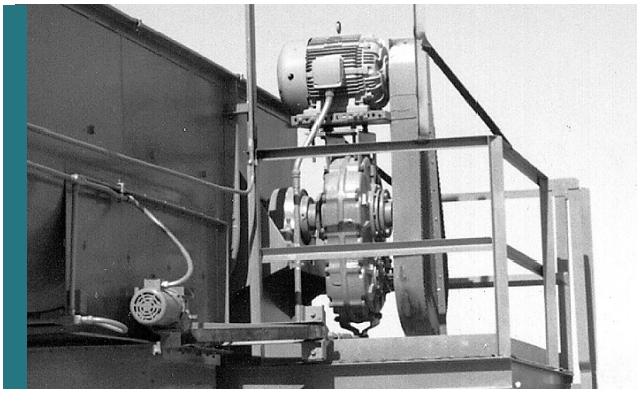
Vertical shaft application



TDT1530T

Application: 200 horsepower, 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. TXT 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 TXT reducers.

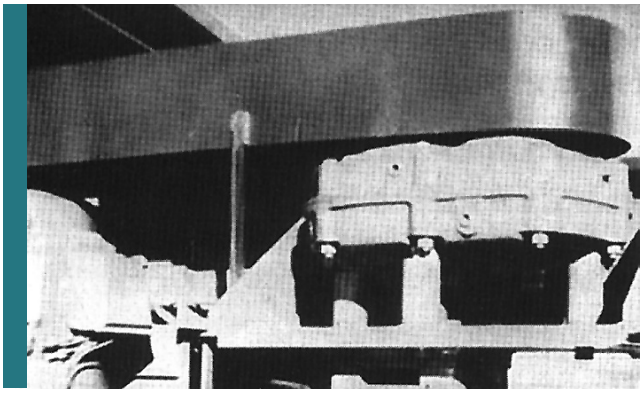
Horizontal shaft application



TXT725T x 3-15/16 inch

Application: 40 horsepower drive, Class II service, on main conveyor drive. Standard tapered-bushed TXT 725 x 3-15/16 inch 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.

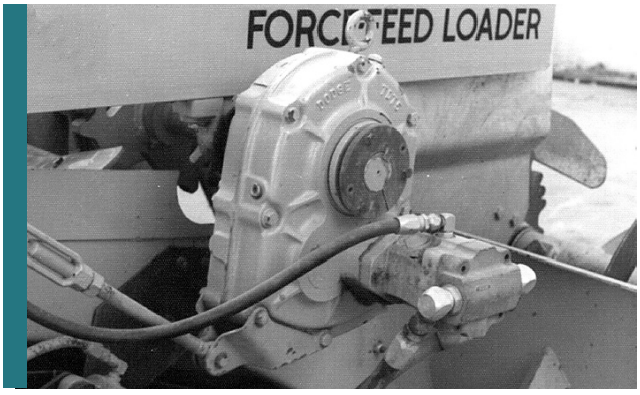
Flange-mounted application



TXT625T

Application: 15 horsepower, 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 TXT 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 tie rod assemblies.

Hydraulic reducer application



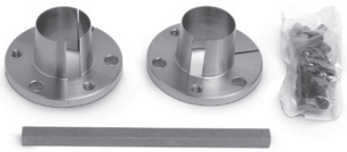
HXT525T with B30 motor

Application: Variable speed Dodge Hydroil speed reducer with hydraulic power is another example of TXT 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.

Accessories

Torque-Arm accessories

Tapered bushing assemblies



Securely mounts taper-bushed reducer to driven shaft

Features	Benefits
• Twin bushings	• Reliably supports both sides of reducer
• Full length shaft key	• Maximum torque and shock load capability
• Flanged bushing mount	• Fast and simple installation
• Removal screws	• Reliable demount of reducer
• Fully split bushings	• Eliminates fretting and seizing problems
• Ductile iron	• Strong, shock resistant bushings
• No setscrews	• Eliminates driven shaft damage
• Clamp fit	• Reduces wobble and fits undersized shafts

Straight bore bushing assemblies



Accommodate less than maximum bore straight bore reducer applications

Features	Benefits
• Steel or ductile iron	• High load capacity
• Two bushings	• Locking setscrews on both sides of reducer
• Mount in reducer bore	• Suitable for shorter driven shafts
• Original design	• Equivalent to most competitive reducers

Motor mounts



Provide a compact and economical method of mounting electric motors on TXT reducers

Features	Benefits
• All-steel construction	• Rigid motor support
• Compactness	• Eliminates separate motor bases
• Adjustable top plate	• Fast and easy belt tensioning
• Pre-drilled	• Accommodates standard NEMA motors
• Economical	• Low cost and eliminates alignment problems
• Flexible mounting	• Pre-drilled for belt guard attachment
• Interchangeability	• Also fits screw conveyor drives

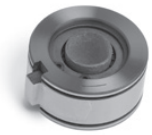
Auxiliary seal kits



Provide extra sealing on taper-bushed reducers

Features	Benefits
• Labyrinth seals	• Protection from dust, dirt, and moisture
• Economical	• Low cost reducer protection
• Simple installation	• Can be grease purged for protection
• Lubrication fittings	• Filtered air breather included
• Air breather	

Backstops



Prevents reverse of shaft direction

Features	Benefits
• Quick installation	• Fits input shaft of all non-E-revision TXT reducers and all single-reduction reducers
• Internally mounted	• Sealed inside reducer for protection
• Oil lubricated	• No external relubrication required
• Long life	• Case hardened, shock resistant sprags
• Keyed to reducer housing	• High load capacity
• Reversible	• Suitable for either direction of rotation

TXT-E series backstops



Prevents reverse of shaft direction

Features	Benefits
• TA II style backstop	• Fits input shaft of all double-reduction E-revision shaft-mounted TXT reducers
• Mounted on input extension with new cover	• Sealed inside reducer for protection
• Compatible with EP lubricants	• No external relubrication required
• Quick installation and reversal	• Case hardened, shock resistant sprags
• Oil lubricated	• High load capacity
• Long life	• Suitable for either direction of rotation
• Keyed to input pinion	

New bushing covers and shaft guards



Features	Benefits
• TXT "E" series are drilled and tapped for easy installation	• Shaft guard is adjustable by 1/4 inch increments and can be cut by 1 inch segments for proper length
• Closed cover for when belt guard is not used	• High strength ABS polymer construction
• Split cover between reducer and bearing	• High visibility yellow color
• Split cover attaches to shaft guard	

TXT belt guards



Encloses belt drive to protect people

Features	Benefits
• Slotted metal panel construction	• New designed eliminates dangerous access to reducer face and spinning bushing bolts
• Yellow paint	• Meets safety requirements
• Mounting hardware	• Quick easy assembly
• Assembles to reducer and motor mount holes	• One size fits most common sheave diameters
• Larger sizes have access panel to tensions V-belts with removing belt guard (8, 9, 10, and 12)	• Some sizes have optional long belt guards to accommodate longer V-belt centers

Harsh-duty accessories

Corrosion resistance

Zinc plated tie rods

A standard accessory that includes tie rods, turnbuckles, and TA tie rod fasteners.

TDNC coated tapered bushings

TDNC coating on bushing, backup plate and snap rings provide maximum corrosion resistance. Zinc plated fasteners included. Consult Dodge for price and delivery.

CEMA stainless-steel driveshafts for screw conveyor drives

#316 stainless-steel, three hole construction now available on short cycle delivery. Consult Dodge for delivery.

Oil sump heater

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

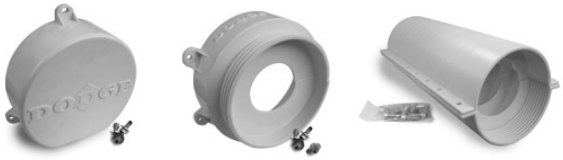


Long-term storage

Preparation for long storage or delayed job start-up. Breather removed and reducer sealed with pipe plug.
See page G3-167 for details.

Safety and sealing

ABS polymer bushing covers, closed and split



- Protection for oil seal areas and from rotating components
- Enhances seal life
- Closed or open for input shaft side. Two piece split for backstop side
- Split cover is adapter for shaft guard extension
- Simply position on reducer, insert bolts and tighten to specified torque values
- Stock item

OPTIFY Performance Sensor



- This allows for trend monitoring of critical data from reducer
- Data can be read from a mobile device or computer to be easily integrated into plant-wide preventive maintenance programs
- Stock item

Harsh-duty accessories

Harsh-duty and sensor accessories

Product	Part number
TXT Enclosed breather system sm (1—10)	240050
TXT Enclosed breather system lg (12—15)	240051
TXT1—4 Immersion heater	241103
TXT5—6 Immersion heater	241104
TXT 7—10 Immersion heater	241105
TXT1 Taconite auxiliary seal kit	272515
TXT105 Taconite auxiliary seal kit	272521
TXT2 Taconite auxiliary seal kit	272446
TXT205 Taconite auxiliary seal kit	272459
TXT305A Taconite auxiliary seal kit	253186
TXT3A,3B Taconite auxiliary seal kit	243577
TXT405A Taconite auxiliary seal kit	254267
TDT14 Taconite auxiliary seal kit	272457
TDT15 Taconite auxiliary seal kit	272458
3/8 Sight oil level gauge (TXT1—4)	430120 *
1/2 Sight oil level gauge (TXT5—6)	430121 *
3/4 Sight oil level gauge (TXT7—TDT15)	430159 *
3/8 Sight oil level tube (TXT1—4)	900110*
1/2 to 3/4 Sight oil level tube (TXT5—TDT15)	904110*
SCXT1 Taconite auxiliary seal kit	272721
SCXT2 Taconite auxiliary seal kit	272722
SCXT3A,3BTaconite auxiliary seal kit	243582
SCXT4A,4B Taconite auxiliary seal kit	244677
SCXT5B,5C Taconite auxiliary seal kit	245637
SCXT505A Taconite auxiliary seal kit	255148
SCXT6 Taconite auxiliary seal kit	272726
SCXT7 Taconite auxiliary seal kit	272727
TXT/SCXT1 Input Taconite seal	241102
TXT/SCXT2 Input Taconite seal	242102
TXT/SCXT3A,3B Input Taconite seal	243108
TXT/SCXT4A,4B Input Taconite seal	244117
TXT/SCXT5B,5C Input Taconite seal	245104
TXT/SCXT6, 605 Input Taconite seal	246102
TXT/SCXT7, 705 Input Taconite seal	247102
TXT8, 805 Input Taconite seal	248102
TXT9, 905 Input Taconite seal	249102
TXT10 Input Taconite seal	250102
TXT12 Input Taconite seal	242102
TXT/SCXT105 Input Taconite seal	241109
TXT/SCXT205 Input Taconite seal	242109
TXT/SCXT305A Input Taconite seal	243109
TXT/SCXT405A Input Taconite seal	244159
TXT/SCXT505A Input Taconite seal	245106
TXT/TDT10 Taconite aux seal kit	272454
TXT/TDT12 Taconite aux seal kit	272455
TDT13 Taconite aux seal kit	272455

* Available as renewal parts

[1] TXT5 and 6 will not use the 1/2—3/4 bushing included with the hardware

Product	Part number
Hydra-Lock - TXT1—TXT4 = size HL-0	964372
Hydra-Lock - TXT5—TXT9 = size HL-1	964364
Hydra-Lock - TXT10—TXT12 = size HL-2	964366
TXT1—TXT9 OPTIFY Breather OB1	750020
TXT10—TDT15 OPTIFY Breather OB4	750021
Hydra-Lock - TDT13—TDT15 = size HL-2	964366
OPTIFY Performance Sensor	820000

Breather technology



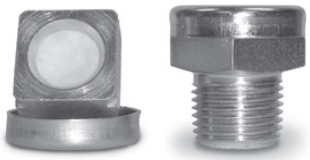
Hydra-Lock desiccant breather

- Built-in standpipe
- Three 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 and remains closed when it is not running



OPTIFY Breather

- Proprietary, detachable sensor module for connection with the OPTIFY platform for remote condition monitoring
- Silica gel beads eliminate moisture contamination, providing a higher capacity and longer life than standard desiccant media
- Polyester filter elements reduce airborne solid particle contamination to a three-micron absolute
- Naturally aspirated with no fixed volume, preventing the build-up of pressure for increased seal effectiveness



Standard 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)



Fully-enclosed canister breather

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

Bushing and shaft guards

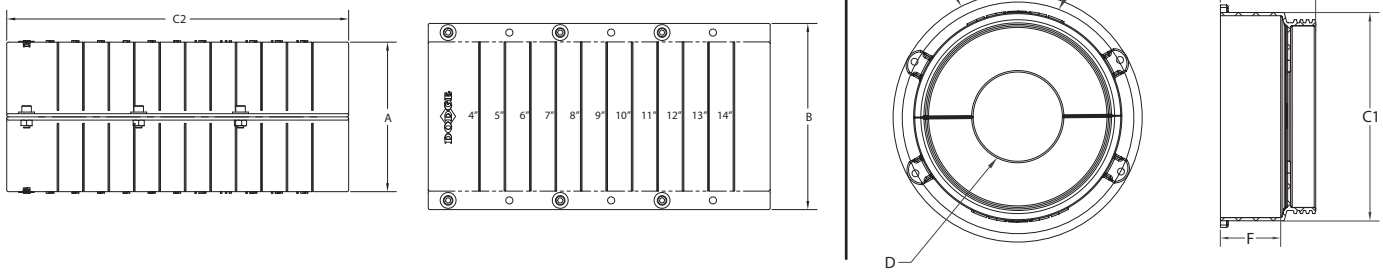
Dimensions

Shaft guard

Size	Part number	A Ext. OD	B Ext. width	C2 Ext. length	D Barrier ID	C2 + F Assembly length
1	020569	4.13	5.82	7.50	2.13	9.22
2	020570	4.75	6.44	10.94	2.91	12.82
3	020571	5.25	6.94	11.88	3.01	13.77
4	020572	5.88	7.57	13.44	3.38	15.37
5	020574	6.88	8.82	17.19	4.43	19.52
6	020575	8.13	10.07	22.19	5.03	24.76
7	020576	8.38	10.32	22.19	5.03	24.76
8	020577	9.63	11.57	24.69	5.87	27.53
9	020578	10.63	12.95	30.00	6.84	32.88
10	020579	11.88	14.20	35.00	7.79	37.91
12	020579	11.88	14.20	35.00	7.79	37.91

Adapter

Size	Part number	A Flange OD	B Number of holes	Bolt pattern	C1 Adapter OD	D Barrier ID	E Overall length	F Unthreaded length
1	241716	6.76	4	5.96	5.09	1.62	2.82	1.68
2	242716	7.42	4	6.76	5.78	2.12	2.90	1.76
3	243716	7.90	4	7.24	6.21	2.44	3.08	1.94
4	244716	8.80	4	8.12	6.83	2.56	3.21	2.07
5	245685	9.42	4	8.80	7.47	3.00	3.55	2.41
6	246798	10.12	4	9.50	8.20	3.62	3.87	2.73
7	247682	11.32	4	10.64	9.35	4.00	4.03	2.89
8	248406	11.98	4	11.32	9.96	4.52	4.38	3.24
9	249716	13.02	4	12.36	11.28	5.00	4.83	3.19
10	272866	14.32	4	13.64	12.59	5.50	4.63	2.99
12	272866	16.32	4	13.64	14.59	6.56	5.23	3.59



Part numbers

Shaft guard kits (1)

Reducer size	Part number	Description	Weight (lb)
TXT1	TXTShaftGuard-01	TXT1 shaft guard	5
TXT2	TXTShaftGuard-02	TXT2 shaft guard	7
TXT3	TXTShaftGuard-03	TXT3 shaft guard	7
TXT4	TXTShaftGuard-04	TXT4 shaft guard	7
TXT5	TXTShaftGuard-05	TXT5 shaft guard	7
TXT6	TXTShaftGuard-06	TXT6 shaft guard	9
TXT7	TXTShaftGuard-07	TXT7 shaft guard	9
TXT8	TXTShaftGuard-08	TXT8 shaft guard	11
TXT9	TXTShaftGuard-09	TXT9 shaft guard	11
TXT10	TXTShaftGuard-10	TXT10 shaft guard	13
TXT12	TXTShaftGuard-12	TXT12 shaft guard	13

(1) Kits include adapter and extension specific to that size.

Closed bushing covers (3)

Reducer size	Part number	Description	Weight (lb)
TXT1	241717	TXT1 closed bushing cover	2
TXT2	242717	TXT2 closed bushing cover	3
TXT3	243717	TXT3 closed bushing cover	3
TXT4	244717	TXT4 closed bushing cover	3
TXT5	245686	TXT5 closed bushing cover	3
TXT6	246799	TXT6 closed bushing cover	4
TXT7	247683	TXT7 closed bushing cover	4
TXT8	248716	TXT8 closed bushing cover	5
TXT9	249717	TXT9 closed bushing cover	5
TXT10	272867	TXT10 closed bushing cover	6
TXT12	272887	TXT12 closed bushing cover	6

(3) May be required when belt guard not used.

Individual shaft guard kits (2)

Reducer size	Part number	Description	Weight (lb)
TXT1	241716	TXT1 guard adapter	2
TXT1	020569	TXT1 guard extension	3
TXT2	242716	TXT2 guard adapter	3
TXT2	020570	TXT2 guard extension	4
TXT3	243716	TXT3 guard adapter	3
TXT3	020571	TXT3 guard extension	4
TXT4	244716	TXT4 guard adapter	3
TXT4	020572	TXT4 guard extension	4
TXT5	245685	TXT5 guard adapter	3
TXT5	020573	TXT5 guard extension	4
TXT6	246798	TXT6 guard adapter	4
TXT6	020574	TXT6 guard extension	5
TXT7	247682	TXT7 guard adapter	4
TXT7	020575	TXT7 guard extension	5
TXT8	248706	TXT8 guard adapter	5
TXT8	020576	TXT8 guard extension	6
TXT9	249716	TXT9 guard adapter	5
TXT9	020577	TXT9 guard extension	6
TXT10	272866	TXT10 guard adapter	6
TXT10	020578	TXT10 guard extension	7
TXT12	242886	TXT12 guard adapter	6
TXT12	020579	TXT12 guard extension	7

(2) To guard entire shaft, one adapter and one extension are required.

Reliability kits

For gearboxes operating under extreme conditions, reliability kits enhance durability and longevity—ensuring consistent performance and maximum uptime for critical equipment while reducing maintenance needs. Additionally, reliability kits allow for remote oil level checks of a running gearbox, contributing to a safer working environment.

Torque-Arm reliability kits create a semi-closed-loop system that eliminates the introduction of unfiltered outside air or contaminants.

Reliability kits contain components to install in the most common configuration (noted below). Installation is possible in a different configuration, but may require different fittings that are available at any local hardware supplier.

Reliability kits are used where users demand maximum uptime from critical equipment. A kit includes:

1. Large, vented oil sight tube with custom-length, closed-loop piping

2. Quick drain valve

3. Quick oil sampling port

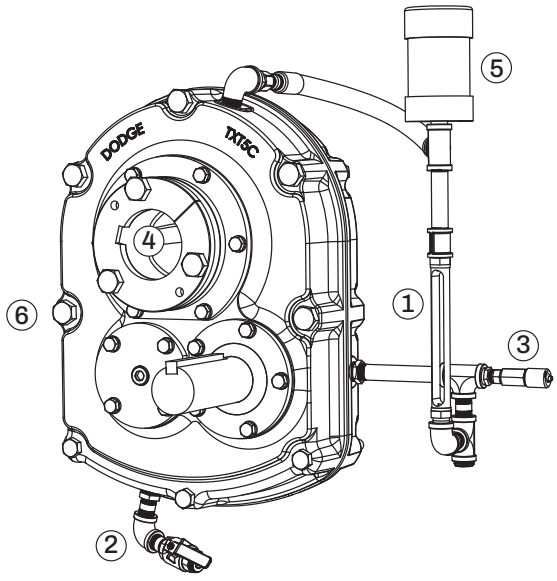
4. ABS bushing split cover for the backside

5. Hydra-Lock or OPTIFY desiccant breather

When application reliability is critical to maximizing operation uptime, you can utilize condition monitoring technology:

6. Sensor-ready port (OPTIFY Performance Sensor sold separately, part number 820000)

This allows for trend monitoring of critical data from the reducer, and its data can be read from a mobile device or computer to be easily integrated into plant-wide preventive maintenance programs.

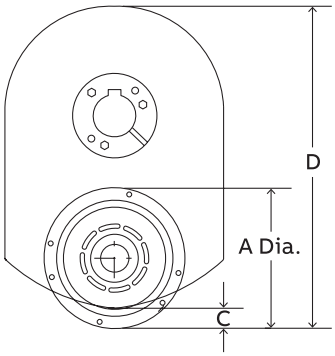


TXT (position B)

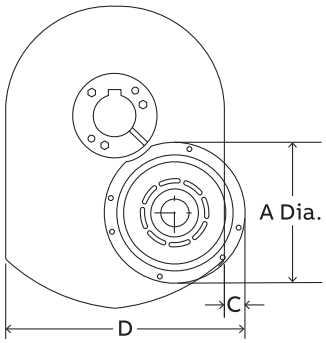
Gearbox description	Hydra-Lock breather option	OPTIFY Breather option
TXT5	TXT5RELKIT	TXT5RELKIT-OB
TXT6	TXT6RELKIT	TXT6RELKIT-OB
TXT7	TXT7RELKIT	TXT7RELKIT-OB
TXT8	TXT8RELKIT	TXT8RELKIT-OB
TXT9	TXT9RELKIT	TXT9RELKIT-OB
TXT10	TXT10RELKIT	TXT10RELKIT-OB
TXT12	TXT12RELKIT	TXT12RELKIT-OB

A reliability kit is used when users demand maximum uptime from critical equipment. The kit uses a Hydra-Lock breather that eliminates the introduction of any outside air or contaminants. It also allows you to check the oil level from a distance, contributing to a safer environment by eliminating the need to approach running equipment.

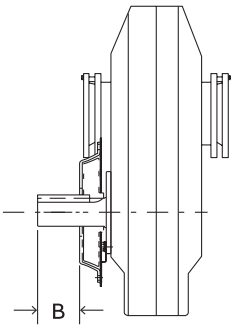
Cooling fan assemblies



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



TXT3A thru TXT10
Ratios 9, 15, 25:1



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 G3-165 for maximum input shaft speeds.

TXT reducer cooling fan assemblies

Reducer size	Cooling fan number	Part number	Nominal ratios	Weight (lb)	A	B	C	D
TXT3, SCXT3	TXT3	243581	9, 15, 25	3.0	4.88	2.13	0.15	9.38
TXT305, SCXT305	TXT305	253188	5	3.0	3.94	1.88	—	—
TXT4, SCXT4	TDT4	272594	9, 15, 25	3.0	5.88	2.94	0.50	10.88
TXT405, SCXT405	TXT405	254268	5	3.0	4.68	2.94	—	—
TXT5, SCXT5	TDT5	272369	9, 15, 25	3.0	7.08	3.97	—	—
TXT505, SCXT505	TXT505	255231	5	3.0	5.75	3.44	—	—
TXT6, SCXT6	TDT6	272325	9, 15, 25	6.0	10.25	3.44	1.31	16.44
TXT605, SCXT605	TXT605	272681 ♣	5	6.0	7.08	3.42	—	—
TXT7, SCXT7	TDT7	272326	9, 15, 25	6.0	12.75	3.68	2.18	20.94
TXT705, SCXT705	TXT705	272685 ♣	5	6.0	9.25	3.88	—	—
TXT8	TDT8	272327	15, 25	9.0	12.75	4.18	2.38	22.63
TXT805	TDT8	272327	5	9.0	12.75	4.25	—	—
TXT9	TDT9	272328	15, 26	15.0	16.75	6.31	3.75	26.38
TXT905	T19	272324 ♣	5	15.0	12.75	7.44	—	—
TXT10	TDT10	272329	15, 24	15.0	16.75	6.13	2.25	27.75
TXT12	TDT12	272330	15, 25	15.0	16.75	5.88	3.25	46.75
TDT13	TDT13	272331	25	20.0	18.50	5.68	3.94	49.75
TDT14	TDT14	272332	25	20.0	18.50	8.63	2.81	52.88
TDT15	TDT15	272333	30	23.0	18.50	9.50	2.00	60.63

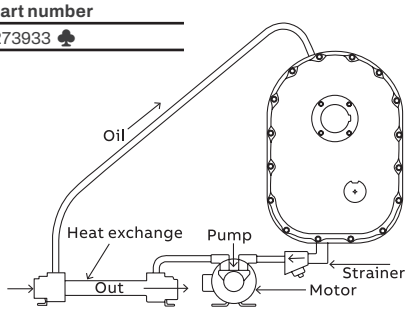
♣ Made to order

Reducer heat exchanger cooling package

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

Specifications for the heat exchange motor are as follows:
1/2 hp, 60 Hz, 3 Ph, 230/460 volt, TEFC, 56 frame
Minimum coolant (water) flow is 3 gpm. based upon a maximum water temperature of 80 °F. Minimum oil temperature for operation is 60 °F.

Part number
273933 ♣



Torque-Arm (TXT)
Overview



TXT

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.

Selection procedures
TXT

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 equipment, consult Dodge Application Engineering at +1 864 284 5700.

How to select

Step 1: Determine class of service

See “Application classification” table, page REF-3, 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 times 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 times rated motor horsepower 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 times rated motor horsepower. 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 G3-16 through G3-21. 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 G3-165 for maximum input and output speeds.

Step 3: Compare hollow shaft bore with the size of the driven shaft

All TXT 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 G3-22 through G3-59 for reducer dimensions, weights and part numbers. See “Engineering and technical” section, page G3-154 for reducer mounting positions. For optional tie rod mounting positions, see page G3-162.

Step 5: Select a belt drive arrangement

From the Sheave Ratio table, pages G3-151, 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 G3-60. 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 G3-60 through G3-67, for description, dimensions, weights, and part numbers for accessories available for the tie rod reducer selected:

- Motor mounts
- Backstop assemblies
- Belt guards
- Cooling fans
- Auxiliary seal kits
- Filter breathers
- Auxiliary end covers

Note: A tie rod assembly is furnished with all TXT and HXT gear reducers, except for those factory-prepared for flange mounting. TA reducers are shipped without oil.

Selection
TXT

Easy selection method example

A 10 horsepower 1,750, 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 inches. Specification 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 REF-3, 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 G3-18, find the column for 10 horsepower 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 G3-36, 2-7/16 inches 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 G3-151, 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 G3-61.

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
TXT

This is a reference sheet for quick selection and specification of TXT gear 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 number _____ Fax number _____

Application data

Type of driven equipment _____

Hours of service per day _____ Class of service _____

Type of load Uniform _____ Moderate _____ Shock _____

Motor type Horsepower (hp) _____ Speed (rpm) _____ Frame size _____ Shaft size _____

Speed (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 horsepower (hp) and driven speed (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 _____

Class I TXT

Easy selection

Class I - 1.0 service factor

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
1/4	4—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
1/3	5—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
1/2	4—6	—	TXT225	—
	7—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
3/4	4—5	—	TXT325	—
	6—10	—	TXT225	—
	11—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
1	4—5	—	TXT425	—
	6—7	—	TXT325	—
	8—15	—	TXT225	—
	16—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
1-1/2	4	—	TXT525	—
	5—7	—	TXT425	—
	8—12	—	TXT325	—
	13—23	—	TXT225	—
	24—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
2	4—6	—	TXT525	—
	7—10	—	TXT425	—
	11—17	—	TXT325	—
	18—32	—	TXT225	TXT215
	33—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
3	4—5	—	TXT625	—
	6—10	—	TXT525	—
	11—15	—	TXT425	—
	16—26	—	TXT325	—
	27—51	—	TXT225	TXT215
	52—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
5	5—6	—	TXT725	—
	7—9	—	TXT625	—
	10—17	—	TXT525	—
	18—26	—	TXT425	TXT415
	27—46	—	TXT325	TXT315
	47—70	—	TXT225	TXT215
	71—85	—	TXT215	TXT225
	86—92	—	TXT109	TXT215
	93—115	—	TXT115	TXT109
	116—119	—	TXT109	TXT115
	120—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
7-1/2	4—6	—	TXT825	—
	7—9	—	TXT725	—
	10—15	—	TXT625	—
	16—26	—	TXT525	—
	27—40	—	TXT425	TXT415
	41—70	—	TXT325	TXT315
	71—74	—	TXT315	TXT325
	75—85	—	TXT215	TXT225
	86—95	—	TXT215	TXT209
	96—140	TXT205	TXT209	TXT215
	141—200	TXT205	TXT209	—
	201—231	TXT205	—	—
	232—400	TXT105	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
10	5	—	TXT926	—
	6—8	—	TXT825	—
	9—12	—	TXT725	—
	13—20	—	TXT625	—
	21—36	—	TXT525	TXT515
	37—56	—	TXT425	TXT415
	57—70	—	TXT325	TXT315
	71—85	—	TXT315	TXT325
	86—103	—	TXT315	TXT309
	104—115	—	TXT215	TXT209
	116—140	TXT305	TXT215	—
	141—158	TXT305	TXT309	—
	159—200	TXT305	TXT309	—
	201—400	TXT205	—	—
15	5—6	—	TXT1024	—
	7—8	—	TXT926	—
	9—13	—	TXT825	—
	14—19	—	TXT725	—
	20—32	—	TXT625	TXT615
	33—56	—	TXT525	TXT515
	57—70	—	TXT425	TXT415
	71—85	—	TXT415	TXT425
	86—93	—	TXT415	TXT409
	94—115	—	TXT309 +	TXT315
	116—140	TXT405	TXT315	TXT309 +
	141—145	TXT405	TXT309 +	—
	146—200	TXT305	TXT309 +	—
	201—400	TXT305	—	—
20	4—6	—	TXT1225	—
	7—8	—	TXT1024	—
	9—12	—	TXT926	—
	13—18	—	TXT825	—
	19—26	—	TXT725	TXT715
	27—45	—	TXT625	TXT615
	46—70	—	TXT525	TXT515
	71—78	—	TXT515	TXT525
	79—85	—	TXT415	TXT425
	86—115	—	TXT415	TXT409 +
	116—140	TXT405	TXT409 +	TXT415 +
	141—200	TXT405	TXT309+	—
	201—241	TXT405	—	—
	242—400	TXT305 +	—	—

~ See page G3-154 for lubrication for 15 rpm and slower

+ Fan cooling required—see page G3-11

✻ Heat exchanger required—see page G3-11

Class I TXT

Easy selection

Class I - 1.0 service factor

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
25	5—7	—	TXT1225	—
	8—10	—	TXT1024	—
	11—15	—	TXT926	—
	16—23	—	TXT825	—
	24—33	—	TXT725	TXT715
	34—59	—	TXT625	TXT615
	60—70	—	TXT525 +	TXT515 +
	71—80	—	TXT515 +	TXT525 +
	81—101	—	TXT515 +	TXT509 +
	102—132	TXT505	TXT415 +	TXT409 +
	133—140	TXT505	TXT409 +	TXT415 +
	141—163	TXT505	TXT409+	—
	164—200	TXT405 +	TXT409 +	—
	201—400	TXT405+	—	—
30	4—5	—	TDT1425	—
	6—9	—	TXT1225	—
	10—13	—	TXT1024	—
	14—19	—	TXT926	—
	20—28	—	TXT825	TXT815
	29—41	—	TXT725	TXT715
	42—70	—	TXT625	TXT615
	71—75	—	TXT615	TXT625
	76—115	—	TXT515 +	TXT509 +
	116—125	TXT605	TXT509 +	TXT515 +
	126—131	TXT605	TXT409 +	—
	132—200	TXT505	TXT409 +	—
	201—215	TXT505 +	—	—
	216—400	TXT405 +	—	—
40	5—6	—	TDT1425	—
	7	—	TDT1325	—
	8—12	—	TXT1225	—
	13—18	—	TXT1024	—
	19—25	—	TXT926	TXT915
	26—38	—	TXT825	TXT815
	39—57	—	TXT725	TXT715
	58—70	—	TXT625	TXT615
	71—81	—	TXT615 +	TXT625 +
	82—114	TXT605	TXT615 +	TXT609 +
	115—125	TXT605	TXT515 +	TXT509 +
	126—200	TXT605	TXT509 +	—
	201—241	TXT605	—	—
	242—400	TXT505 +	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
50	3—5	—	TDT1530	—
	6—8	—	TDT1425	—
	9	—	TDT1325	—
	10—15	—	TXT1225	—
	16—22	—	TXT1024	—
	23—32	—	TXT926	TXT915
	33—49	—	TXT825	TXT815
	50—70	—	TXT725	TXT715
	71—74	—	TXT715	TXT725
	75—125	—	TXT615 +	TXT709 +
	126—163	TXT605 +	TXT709 +	—
	164—200	TXT605 +	TXT609 +	—
	201—400	TXT605 +	—	—
60	4—6	—	TDT1530	—
	7—11	—	TDT1425	—
	12	—	TDT1325	—
	13—18	—	TXT1225	—
	19—27	—	TXT1024	TXT1015
	28—39	—	TXT926	TXT915
	40—60	—	TXT825	TXT815
	61—70	—	TXT725 +	TXT715 +
	71—120	—	TXT715 +	TXT709 +
	121—131	TXT705	TXT709 +	—
	132—200	TXT605 +	TXT709 +	—
	201—400	TXT605 +	—	—
75	5—8	—	TDT1530	—
	9—13	—	TDT1425	—
	14—15	—	TDT1325	—
	16—23	—	TXT1225	—
	24—34	—	TXT1024	TXT1015
	35—50	—	TXT926	TXT915
	51—70	—	TXT825	TXT815
	71—78	—	TXT815 +	—
	79—120	—	TXT715 +	TXT709 +
	121—200	TXT705	TXT709 +	—
	201—210	TXT705	—	—
	211—400	TXT605 +	—	—
100	6—11	—	TDT1530	—
	12—17	—	TDT1425	—
	18—22	—	TDT1325	—
	23—31	—	TXT1225	TXT1215
	32—46	—	TXT1024	TXT1015
	47—69	—	TXT926 +	TXT915 +
	70—120	—	TXT815 +	—
	121—123	TXT805 +	TXT709 +	—
	124—200	TXT705 +	TXT709 +	—
	201—400	TXT705 +	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
125	8—14	—	TDT1530	—
	15—22	—	TDT1425	—
	23—29	—	TDT1325	—
	30—40	—	TXT1225	TXT1215
	41—59	—	TXT1024	TXT1015
	60—70	—	TXT915 +	TXT926 +
	71—90	—	TXT915 +	—
	91—123	—	TXT815 +	—
	124—172	TXT805 +	—	—
	173—400	TXT705 +	—	—
150	9—17	—	TDT1530	—
	18—27	—	TDT1425	—
	28—36	—	TDT1325	—
	37—49	—	TXT1225	TXT1215
	50—70	—	TXT1024	TXT1015
	71—75	—	TXT1015 +	TXT1024 +
	76—80	—	TXT1015 +	—
	81—120	—	TXT915 +	—
	121—165	TXT905	—	—
	166—400	TXT805 +	—	—
200	12—23	—	TDT1530	—
	24—36	—	TDT1425	—
	37—51	—	TDT1325 +	—
	52—68	—	TXT1225✻	TXT1215✻
	69—120	—	TXT1015 +	—
	212—400	TXT905 +	—	—
250	16—30	—	TDT1530	—
	31—46	—	TDT1425 +	—
	47—67	—	TDT1325 +	—
	68—75	—	TXT1225✻	TXT1215✻
	76—120	—	TXT1215✻	—
300	19—36	—	TDT1530	—
	37—58	—	TDT1425✻	—
	59—70	—	TDT1325 +	—
	71—75	—	TDT1325✻	—
	83—120	—	TXT1215✻	—
350	23—43	—	TDT1530 +	—
	44—69	—	TDT1425✻	—
	70—75	—	TDT1325✻	—
400	27—50	—	TDT1530 +	—
	51—75	—	TDT1425✻	—
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 G3-154 for lubrication for 15 rpm and slower

+ Fan cooling required—see page G3-11

✻ Heat exchanger required—see page G3-11

Class II TXT

Easy selection

Class II - 1.4 service factor

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
1/4	5—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
1/3	4—6	—	TXT225	—
	7—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
1/2	4—5	—	TXT325	—
	6—9	—	TXT225	—
	10—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
3/4	4—5	—	TXT425	—
	6—8	—	TXT325	—
	9—16	—	TXT225	—
	17—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
1	5—7	—	TXT425	—
	8—11	—	TXT325	—
	12—22	—	TXT225	—
	23—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
1-1/2	5—6	—	TXT525	—
	7—11	—	TXT425	—
	12—18	—	TXT325	—
	19—34	—	TXT225	TXT215
	35—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
2	4—5	—	TXT625	—
	6—9	—	TXT525	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
2 cont.	10—14	—	TXT425	—
	15—24	—	TXT325	TXT315
	25—47	—	TXT225	TXT215
	48—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
3	4—5	—	TXT725	—
	6—8	—	TXT625	—
	9—14	—	TXT525	—
	15—22	—	TXT425	TXT415
	23—38	—	TXT325	TXT315
	39—70	—	TXT225	TXT215
	71—75	—	TXT215	TXT225
	76—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
5	4—6	—	TXT825	—
	7—8	—	TXT725	—
	9—14	—	TXT625	—
	15—24	—	TXT525	—
	25—37	—	TXT425	TXT415
	38—69	—	TXT325	TXT315
	70—85	—	TXT215	TXT225
	86—89	—	TXT215	TXT209
	90—136	TXT205	TXT209	TXT215
	137—140	TXT205	TXT115	TXT209
	141—191	TXT205	TXT109	—
	192—200	TXT105	TXT109	—
	201—400	TXT105	—	—
7-1/2	5	—	TXT926	—
	6—9	—	TXT825	—
	10—13	—	TXT725	—
	14—21	—	TXT625	—
	22—38	—	TXT525	TXT515
	39—59	—	TXT425	TXT415
	60—70	—	TXT325	TXT315
	71—85	—	TXT315	TXT325
	86—110	—	TXT315	TXT309
	111—122	—	TXT215	—
	123—140	TXT305	TXT209	TXT215
	141—183	TXT305	TXT209	—
	184—200	TXT205	TXT209	—
	201—400	TXT205	—	—
10	4	—	TXT1225	—
	5	—	TXT1024	—
	6—7	—	TXT926	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
10 cont.	8—12	—	TXT825	—
	13—18	—	TXT725	—
	19—29	—	TXT625	TXT615
	30—52	—	TXT525	TXT515
	53—70	—	TXT425	TXT415
	71—84	—	TXT415	TXT425
	85—130	—	TXT315	TXT309
	131—140	TXT305	TXT315	TXT309
	141—200	TXT305	TXT309	—
	201—353	TXT305	—	—
	354—400	TXT205	—	—
15	4—6	—	TXT1225	—
	7—9	—	TXT1024	—
	10—12	—	TXT926	—
	13—19	—	TXT825	—
	20—27	—	TXT725	—
	28—47	—	TXT625	TXT615
	48—70	—	TXT525	TXT515
	71—82	—	TXT515	TXT525
	83—117	—	TXT415	TXT409
	118—140	TXT405	TXT409	TXT415
	141—150	TXT405	TXT409	—
	151—200	TXT405	TXT309 +	—
	201—269	TXT405	—	—
	270—400	TXT305	—	—
20	5	—	TDT1325	—
	6—8	—	TXT1225	—
	9—12	—	TXT1024	—
	13—17	—	TXT926	—
	18—26	—	TXT825	—
	27—38	—	TXT725	TXT715
	39—68	—	TXT625	TXT615
	69—80	—	TXT515	TXT525
	81—89	—	TXT515	—
	90—117	—	TXT515 +	TXT509 +
	118—125	TXT505	TXT409 +	TXT415 +
	126—200	TXT505	TXT409 +	—
	201—400	TXT405 +	—	—
25	4—6	—	TDT1425	—
	7—10	—	TXT1225	—
	11—15	—	TXT1024	—
	16—22	—	TXT926	—
	23—33	—	TXT825	TXT815
	34—49	—	TXT725	TXT715
	50—80	—	TXT615	TXT625
	81—94	—	TXT615	TXT609
	95—125	TXT605	TXT509 +	TXT515 +
	126—174	TXT605	TXT509 +	—
	175—200	TXT505	TXT409 +	—
	201—270	TXT505	—	—
	271—400	TXT405 +	—	—

~ See page G3-154 for lubrication for 15 rpm and slower

+ Fan cooling required—see page G3-11

✻ Heat exchanger required—see page G3-11

Class II TXT

Easy selection

Class II - 1.4 service factor

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
30	5—7	—	TDT1425	—
	8	—	TDT1325	—
	9—12	—	TXT1225	—
	13—19	—	TXT1024	—
	20—27	—	TXT926	TXT915
	28—41	—	TXT825	TXT815
	42—60	—	TXT725	TXT715
	61—76	—	TXT625	TXT615
	77—89	—	TXT615	TXT609
	90—125	TXT605	TXT615 +	TXT609+
	126—200	TXT605	TXT509 +	—
	201—233	TXT605	—	—
	234—349	TXT505 +	—	—
	350—400	TXT405 +	—	—
40	4—6	—	TDT1530	—
	7—9	—	TDT1425	—
	10—11	—	TDT1325	—
	12—17	—	TXT1225	—
	18—25	—	TXT1024	—
	26—36	—	TXT926	TXT915
	37—56	—	TXT825	TXT815
	57—75	—	TXT725	TXT715
	76—88	—	TXT715	—
	89—114	—	TXT615 +	TXT609 +
	115—120	—	TXT615 +	TXT609 +
	121—200	TXT605	TXT609 +	—
	201—347	TXT605 +	—	—
	348—400	TXT505 +	—	—
50	5—8	—	TDT1530	—
	9—12	—	TDT1425	—
	13—14	—	TDT1325	—
	15—21	—	TXT1225	—
	22—32	—	TXT1024	TXT1015
	33—46	—	TXT926	TXT915
	47—70	—	TXT825	TXT815
	71—72	—	TXT815	TXT825
	73—95	—	TXT715 +	—
	96—110	TXT705	TXT709	TXT715 +
	111—120	TXT705	TXT709 +	TXT715 +
	121—179	TXT705	TXT709 +	—
	180—200	TXT605 +	TXT609 +	—
	201—400	TXT605 +	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
60	5—9	—	TDT1530	—
	10—14	—	TDT1425	—
	15—18	—	TDT1325	—
	19—26	—	TXT1225	—
	27—39	—	TXT1024	TXT1015
	40—56	—	TXT926	TXT915
	57—70	—	TXT825	TXT815
	71—75	—	TXT815	TXT825
	76—89	—	TXT815	—
	90—120	TXT705	TXT715 +	TXT709 +
	121—200	TXT705	TXT709 +	—
	201—285	TXT705	—	—
	286—400	TXT605 +	—	—
75	7—12	—	TDT1530	—
	13—18	—	TDT1425	—
	19—24	—	TDT1325	—
	25—33	—	TXT1225	TXT1215
	34—49	—	TXT1024	TXT1015
	50—73	—	TXT926	TXT915
	74—75	—	TXT815	TXT825
	76—120	TXT805	TXT815 +	—
	121—133	TXT805	TXT709 +	—
	134—200	TXT705	TXT709 +	—
	201—400	TXT705	—	—
100	8—16	—	TDT1530	—
	17—25	—	TDT1425	—
	26—33	—	TDT1325	—
	34—45	—	TXT1225	TXT1215
	46—67	—	TXT1024	TXT1015
	68—75	—	TXT915 +	TXT926 +
	76—103	—	TXT915 +	—
	104—120	TXT905	TXT815 +	—
	121—149	TXT905	—	—
	150—180	TXT805	—	—
	181—200	TXT805	TXT709	—
	201—204	TXT805	—	—
	205—246	TXT705	—	—
	247—400	TXT705 +	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
125	11—20	—	TDT1530	—
	21—31	—	TDT1425	—
	32—43	—	TDT1325	—
	44—58	—	TXT1225	TXT1215
	59—75	—	TXT1024	TXT1015
	76—85	—	TXT1015	—
	86—120	—	TXT915 +	—
	145—209	TXT905	—	—
	210—303	TXT805 +	—	—
	304—400	TXT705 +	—	—
150	13—25	—	TDT1530	—
	26—38	—	TDT1425	—
	39—54	—	TDT1325	—
	55—72	—	TXT1225 +	TXT1215 +
	73—75	—	TXT1015 +	TXT1024 +
	76—120	—	TXT1015 +	—
	184—279	TXT905 +	—	—
	280—400	TXT805 +	—	—
200	18—33	—	TDT1530	—
	34—53	—	TDT1425 +	—
	54—75	—	TDT1325 +	—
	77—120	—	TXT1215✻	—
250	23—42	—	TDT1530	—
	43—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 G3-154 for lubrication for 15 rpm and slower

\+ Fan cooling required—see page G3-11

✻ Heat exchanger required—see page G3-11

Class III TXT

Easy selection

Class III - 2.0 service factor

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
1/4	4—6	—	TXT225	—
	7—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—89	—	TXT115	TXT109
	90—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
1/3	5—9	—	TXT225	—
	10—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
1/2	4—5	—	TXT425	—
	6—7	—	TXT325	—
	8—15	—	TXT225	—
	16—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
3/4	4	—	TXT525	—
	5—7	—	TXT425	—
	8—12	—	TXT325	—
	13—23	—	TXT225	—
	24—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
1	4—6	—	TXT525	—
	7—10	—	TXT425	—
	11—17	—	TXT325	—
	18—32	—	TXT225	—
	33—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
1-1/2	4—5	—	TXT625	—
	6—10	—	TXT525	—
	11—15	—	TXT425	—
	16—26	—	TXT325	—
	27—51	—	TXT225	TXT215
	52—70	—	TXT125	TXT115
	71—85	—	TXT115	TXT125
1-1/2 cont.	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
2	5—7	—	TXT625	—
	8—13	—	TXT525	—
	14—21	—	TXT425	—
	22—36	—	TXT325	TXT315
	37—71	—	TXT225	TXT215
	72—85	—	TXT115	TXT125
	86—115	—	TXT115	TXT109
	116—140	TXT105	TXT109	TXT115
	141—200	TXT105	TXT109	—
	201—400	TXT105	—	—
3	4—5	—	TXT825	—
	6—7	—	TXT725	—
	8—12	—	TXT625	—
	13—20	—	TXT525	—
	21—32	—	TXT425	TXT415
	33—57	—	TXT325	TXT315
	58—70	—	TXT225	TXT215
	71—85	—	TXT215	TXT225
	86—89	—	TXT215	TXT209
	90—113	TXT205	TXT215	TXT209
	114—140	TXT205	TXT109	TXT115
	141—155	TXT205	TXT109	—
	156—200	TXT105	TXT109	—
	201—400	TXT105	—	—
5	5	—	TXT926	—
	6—8	—	TXT825	—
	9—12	—	TXT725	—
	13—20	—	TXT625	—
	21—36	—	TXT525	TXT515
	37—56	—	TXT425	TXT415
	57—70	—	TXT325	TXT315
	71—85	—	TXT315	TXT325
	86—103	—	TXT315	TXT309
	104—114	TXT305	TXT215	TXT309
	115—140	TXT305	TXT209	TXT215
	141—167	TXT305	TXT209	—
	168—200	TXT205	TXT209	—
	201—400	TXT205	—	—
7-1/2	5—6	—	TXT1024	—
	7—8	—	TXT926	—
	9—13	—	TXT825	—
	14—19	—	TXT725	—
	20—32	—	TXT625	TXT615
	33—56	—	TXT525	TXT515
	57—70	—	TXT425	TXT415
	71—85	—	TXT415	TXT425
	86—93	—	TXT415	TXT409
7-1/2 cont.	94—140	TXT405	TXT309	TXT315
	141—144	TXT405	TXT309	—
	145—200	TXT305	TXT309	—
	201—400	TXT305	—	—
10	4—6	—	TXT1225	—
	7—8	—	TXT1024	—
	9—12	—	TXT926	—
	13—18	—	TXT825	—
	19—26	—	TXT725	TXT715
	27—45	—	TXT625	TXT615
	46—70	—	TXT525	TXT515
	71—78	—	TXT515	TXT525
	79—92	—	TXT415	—
	93—105	—	TXT415	TXT409
	106—141	TXT405	TXT409	TXT415
	142—200	TXT405	TXT309	—
	201—241	TXT405	—	—
	242—400	TXT305	—	—
15	4—5	—	TDT1425	—
	6—9	—	TXT1225	—
	10—13	—	TXT1024	—
	14—19	—	TXT926	—
	20—28	—	TXT825	TXT815
	29—41	—	TXT725	TXT715
	42—70	—	TXT625	TXT615
	71—75	—	TXT615	TXT625
	76—93	—	TXT515	—
	94—115	—	TXT515	TXT509
	116—125	TXT605	TXT509	TXT515
	126—131	TXT605	TXT509	—
	132—200	TXT505	TXT409	—
	201—215	TXT505	—	—
	216—400	TXT405	—	—
20	5—6	—	TDT1425	—
	7	—	TDT1325	—
	8—12	—	TXT1225	—
	13—18	—	TXT1024	—
	19—25	—	TXT926	TXT915
	26—38	—	TXT825	TXT815
	39—57	—	TXT725	TXT715
	58—70	—	TXT625	TXT615
	71—114	—	TXT615	TXT609
	115—125	TXT605	TXT509 +	TXT515 +
	126—200	TXT605	TXT509 +	—
	201—218	TXT605	—	—
	219—324	TXT505	—	—
	325—400	TXT405 +	—	—
25	4—5	—	TDT1530	—
	6—8	—	TDT1425	—
	9	—	TDT1325	—
	10—15	—	TXT1225	—

~ See page G3-154 for lubrication for 15 rpm and slower

+ Fan cooling required—see page G3-11

✻ Heat exchanger required—see page G3-11

Class III TXT

Easy selection

Class III - 2.0 service factor

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
25 cont.	16—22	—	TXT1024	—
	23—32	—	TXT926	TXT915
	33—49	—	TXT825	TXT815
	50—70	—	TXT725	TXT715
	71—74	—	TXT715	TXT725
	75—104	—	TXT615	TXT609
	105—113	—	TXT615 +	TXT609
	114—125	TXT605	TXT615 +	TXT609 +
	126—200	TXT605	TXT609 +	—
	201—294	TXT605	—	—
	295—400	TXT505 +	—	—
30	4—6	—	TDT1530	—
	7—10	—	TDT1425	—
	11—12	—	TDT1325	—
	13—18	—	TXT1225	—
	19—27	—	TXT1024	TXT1015
	28—39	—	TXT926	TXT915
	40—60	—	TXT825	TXT815
	61—70	—	TXT725	TXT715
	71—98	—	TXT715	—
	99—125	—	TXT615 +	TXT609 +
	126—131	TXT705	TXT609 +	—
	132—200	TXT605	TXT609 +	—
	201—381	TXT605	—	—
	382—400	TXT505 +	—	—
40	5—9	—	TDT1530	—
	10—14	—	TDT1425	—
	15—17	—	TDT1325	—
	18—25	—	TXT1225	—
	26—37	—	TXT1024	TXT1015
	38—53	—	TXT926	TXT915
	54—70	—	TXT825	TXT815
	71—84	—	TXT815	—
	85—89	—	TXT715	TXT709
	90—120	TXT705	TXT715 +	TXT709
	121—200	TXT705	TXT709 +	—
	201—249	TXT705	—	—
	250—400	TXT605 +	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
50	6—11	—	TDT1530	—
	12—17	—	TDT1425	—
	18—22	—	TDT1325	—
	23—31	—	TXT1225	TXT1215
	32—46	—	TXT1024	TXT1015
	47—69	—	TXT926	TXT915
	70—75	—	TXT815	TXT825
	76—110	—	TXT815	—
	111—120	—	TXT715 +	TXT709 +
	121—123	TXT805	TXT709 +	—
	124—200	TXT705	TXT709 +	—
	201—400	TXT705	—	—
60	7—14	—	TDT1530	—
	15—21	—	TDT1425	—
	22—28	—	TDT1325	—
	29—38	—	TXT1225	TXT1215
	39—56	—	TXT1024	TXT1015
	57—75	—	TXT926	TXT915
	76—85	—	TXT915	—
	86—115	—	TXT815	—
	116—141	TXT805	—	—
	142—161	TXT805	TXT709 +	—
	162—200	TXT705	TXT709 +	—
	201—400	TXT705	—	—
75	9—17	—	TDT1530	—
	18—26	—	TDT1425	—
	27—36	—	TDT1325	—
	37—49	—	TXT1225	TXT1215
	50—72	—	TXT1024	TXT1015
	73—75	—	TXT915 +	TXT926 +
	76—120	—	TXT915 +	—
	121—165	TXT905	—	—
	166—234	TXT805	—	—
	235—400	TXT705	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
100	12—23	—	TDT1530	—
	24—36	—	TDT1425	—
	37—51	—	TDT1325	—
	52—68	—	TXT1225 +	TXT1215 +
	69—120	—	TXT1015	—
	175—259	TXT905	—	—
	260—387	TXT805 +	—	—
	388—400	TXT705 +	—	—
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	—	TXT1015 +	—
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 G3-154 for lubrication for 15 rpm and slower

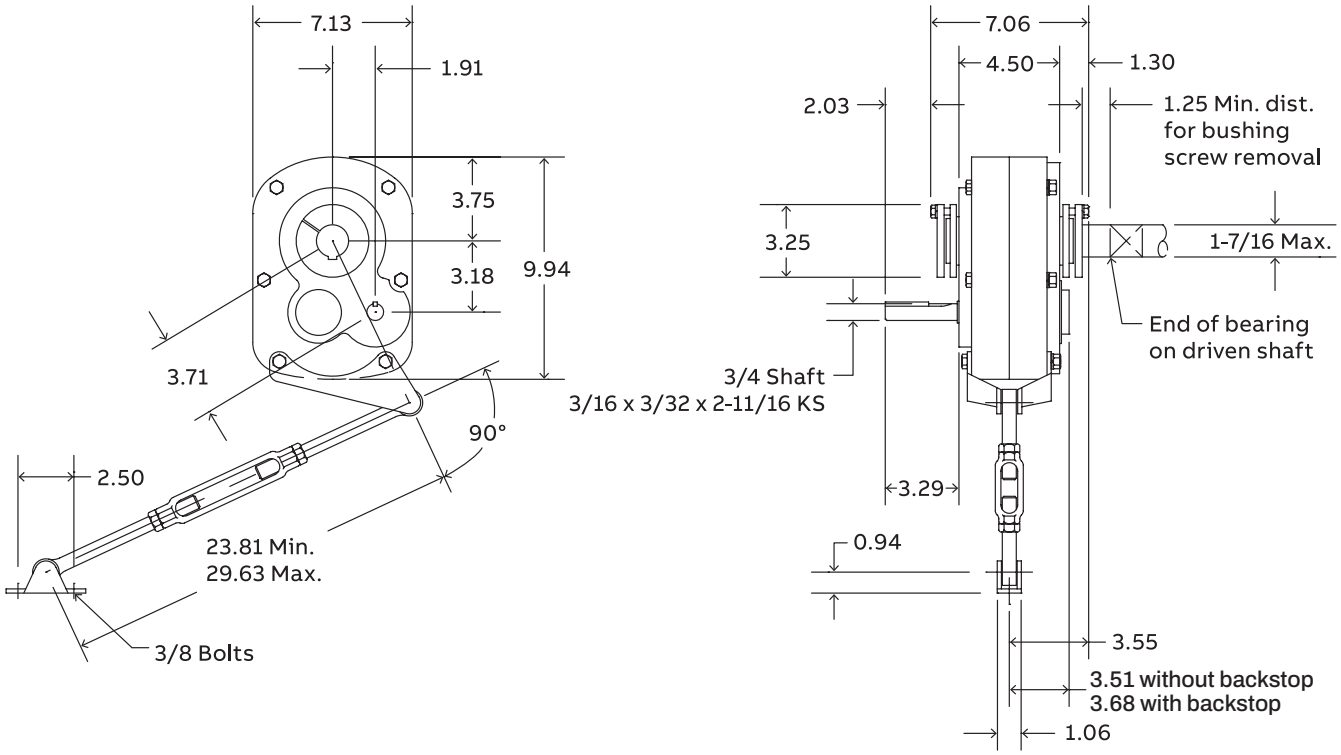
\+ Fan cooling required—see page G3-11

✻ Heat exchanger required—see page G3-11

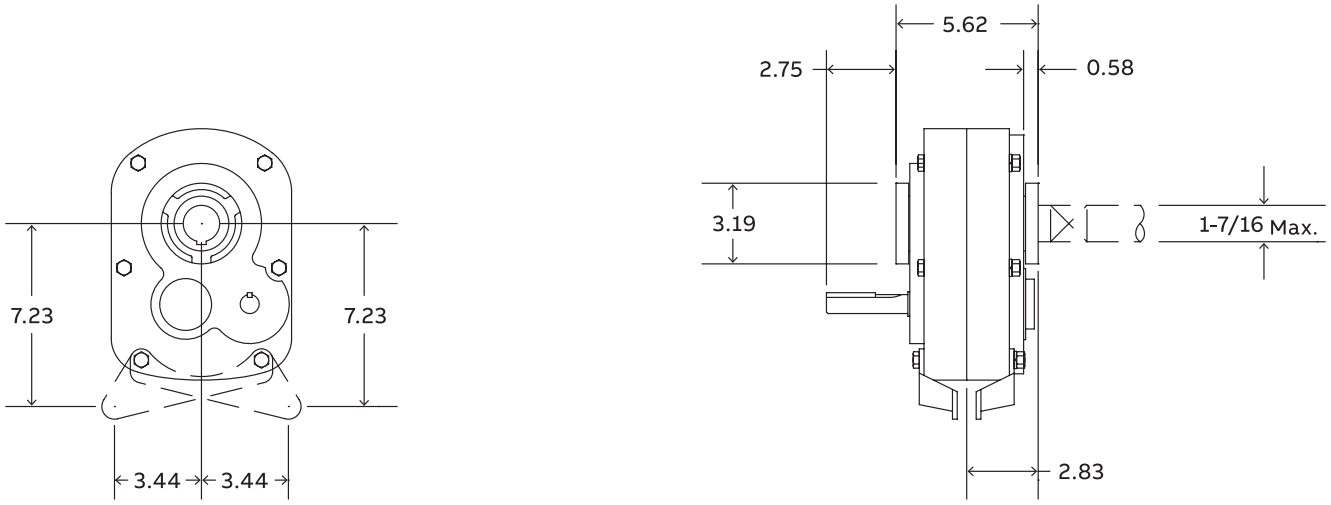
Selection and dimensions

TXT1E

Double-reduction taper-bushed



Double-reduction straight bore



All dimensions are in inches.

TXT1E

Double-reduction taper-bushed

TXT1E taper-bushed reducers ■○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT109ET	E241092	107D09	9.44	45
TXT115ET	E241065	107D15	15.35	45
TXT125ET	E241066	107D25	25.64	45

TXT1E straight bore reducers ■○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT109ES	E241327 ♣	107D09	9.44	45
TXT115ES	E241073	107D15	15.35	45
TXT125ES	E241074	107D25	25.64	45

For bushing sizes smaller than these, check with application engineering for shaft strength.

Accessories for TXT1E reducers

Description	Part number	Weight (lb)
TXT1E Backstop assembly	241737	0.8
TA1M Standard motor mount (56T—215T)	241391	37.3
TXT1D TA Reducer belt guard (56T—215T)	242395	30.0
TAB1 Bottom motor mount (56T—215T) ♣ ♠	241421	34.0
TXT1—TXT4 Hydra-Lock desiccant breather Kit HL0	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 1—4 Immersion heater	241103	2.0
TXT1 Lube kit	LUBEKITTXT1	4.6
3/8 Sight oil level gauge (TXT1—4)	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	900110 *	2.0
TXT1 Taconite Auxiliary Seal Kit ♥	272515	4.4

TXT1E 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	—
1-1/4	▲	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

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT1E	241717	0.5	241716	2

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.
* When split cover is used with a backstop, the cover may require slight modification for clearance.

Shaft guard and kits

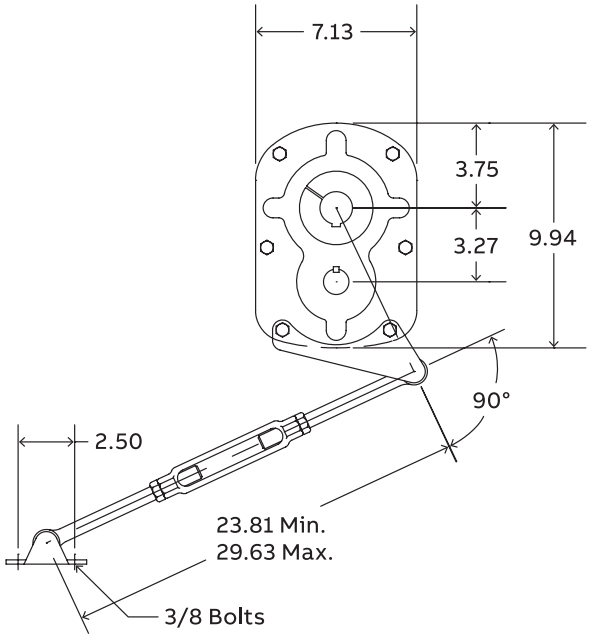
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT1E	020569	3	TXTShaftGuard-01	5

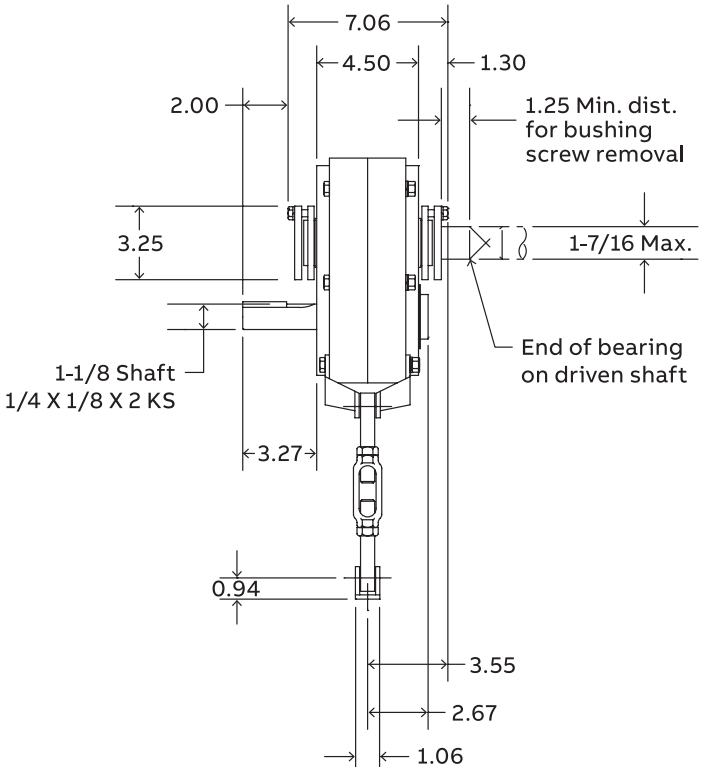
Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

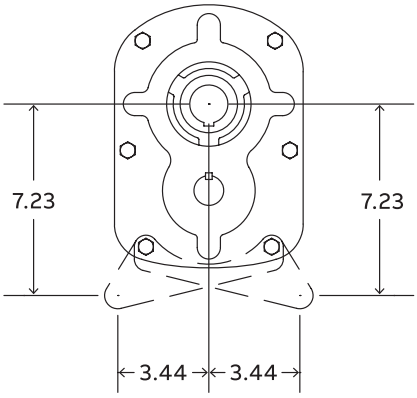
TXT105E

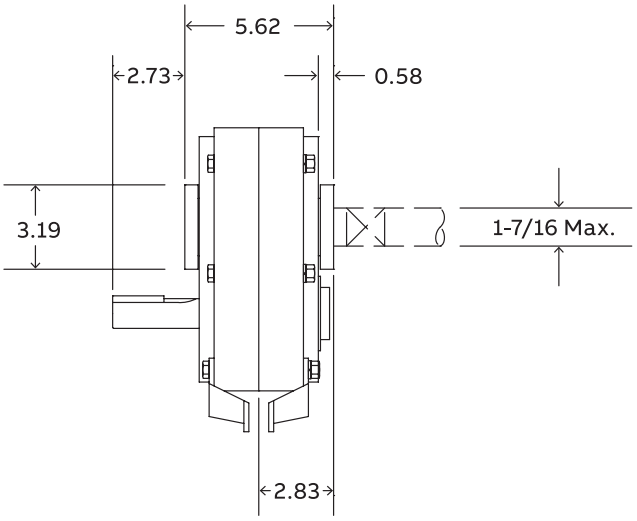
Single-reduction taper-bushed





Single-reduction straight bore





All dimensions are in inches.

TXT105E

Single-reduction taper-bushed

TXT105E taper-bushed reducers ■○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT105ET	241083	107S05	5.62	40

TXT105E straight bore reducers ■○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT105ES	241087	107S05	5.62	40

Accessories for TXT105E reducers

Description	Part number	Weight (lb)
TXT105 Backstop assembly	242101	0.8
TA1M Standard motor mount (56T—215T)	241391	37.3
TXT1S TA reducer belt guard (56T—215T)	241397	30.0
TAB1 Bottom motor mount (56T—215T) ♣ ♠	241421	34.0
TXT1—TXT4 Hydra-Lock desiccant breather Kit HL0	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 1—4 Immersion heater	241103	2.0
TXT105 Lube kit	LUBEKITTXT105	4.5
3/8 Sight oil level gauge (TXT1—4)	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	900110 *	2.0
TXT105 Taconite auxiliary seal kit ♥	272521	5.0

TXT1 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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	—
1-1/4	▲	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

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT1E	241717	0.5	241716	2

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

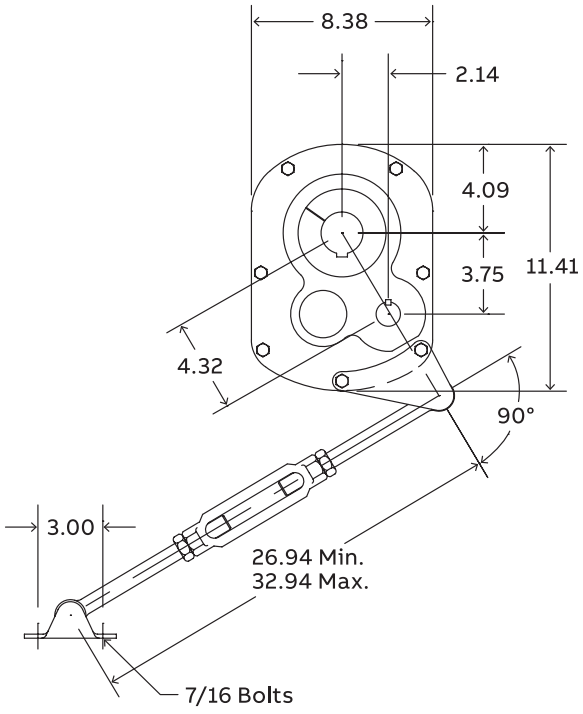
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT1E	020569	3	TXTShaftGuard-01	5

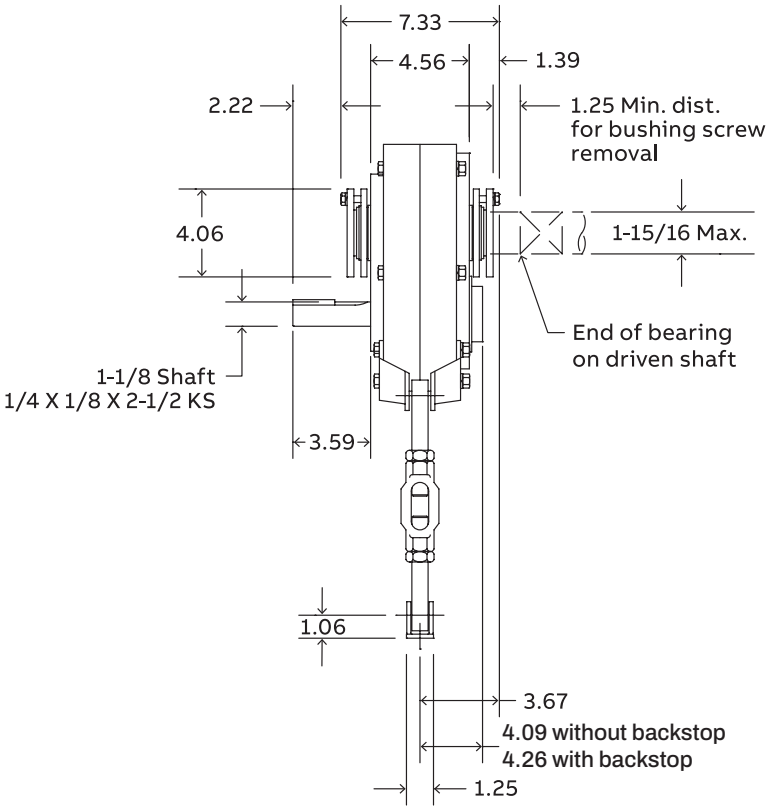
Kits include adapter and extension for that size reducer.

♣ Made to order
† Shaft key furnished
▲ Check the driven shaft and key for strength
◆ Preferred bore, no bushing is required for this bore size.
○ Stock TXT reducers are drilled for vertical mounting
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

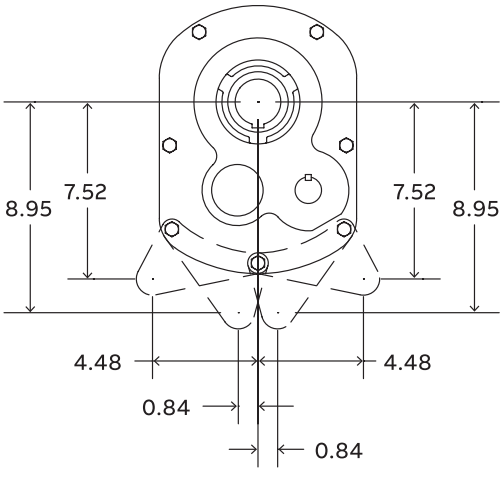
TXT2E

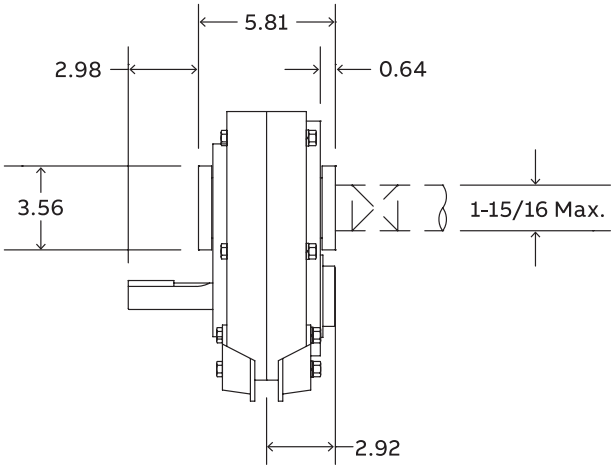
Double-reduction taper-bushed





Double-reduction straight bore





All dimensions are in inches.

TXT2E

Double-reduction taper-bushed

TXT2E taper-bushed reducers ■○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT209ET	E242079	115D09	9.25	58
TXT215ET	E242082	115D15	14.10	58
TXT225ET	E242083	115D25	23.46	58

TXT2E straight bore reducers ■○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT209ES	E242327 ♣	115D09	9.25	58
TXT215ES	E242090	115D15	14.10	58
TXT225ES	E242091	115D25	23.46	58

Accessories for TXT2E reducers

Description	Part number	Weight (lb)
TXT2E Backstop assembly	242709	1.0
TA1M Standard motor mount (56T—215T)	241391	37.3
TXT2D TA reducer belt guard (56T—215T)	42395	36.0
TAB2 Bottom motor mount (56T—215T) ♠ ♣	242421	34.0
TXT1—TXT4 Hydra-Lock desiccant breather Kit HL0	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 1—4 Immersion heater	241103	2.0
TXT2 Lube kit	LUBEKITTXT2	4.6
3/8 Sight oil level gauge (TXT1—4)	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	900110 *	2.0
TXT2 Taconite auxiliary seal kit ♥	272446	5.5

TXT2E 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
1-1/2	▲	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
1-1/8	▲	242146	—	1/4 x 1/8 x 6-11/16	—	3.8	—

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT2E	242717	0.5	242716	2

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.
* When split cover is used with a backstop, the cover may require slight modification for clearance

Shaft guard and kits

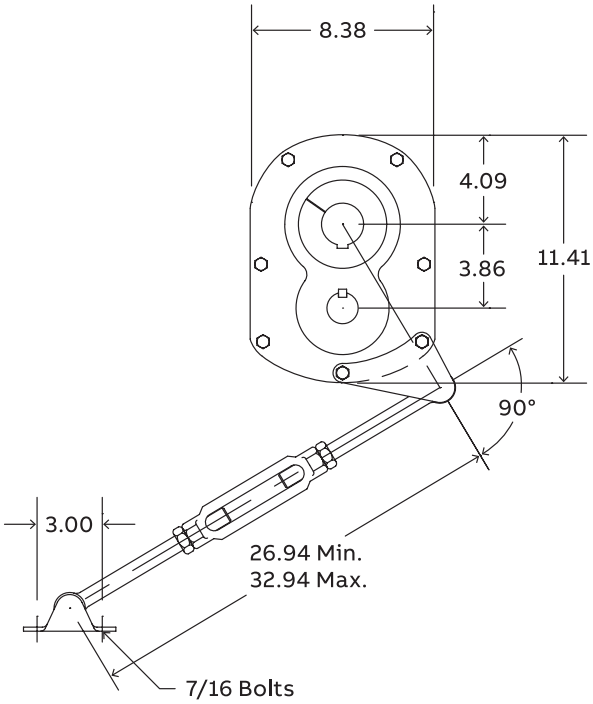
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT2E	020570	3	TXTShaftGuard-02	5

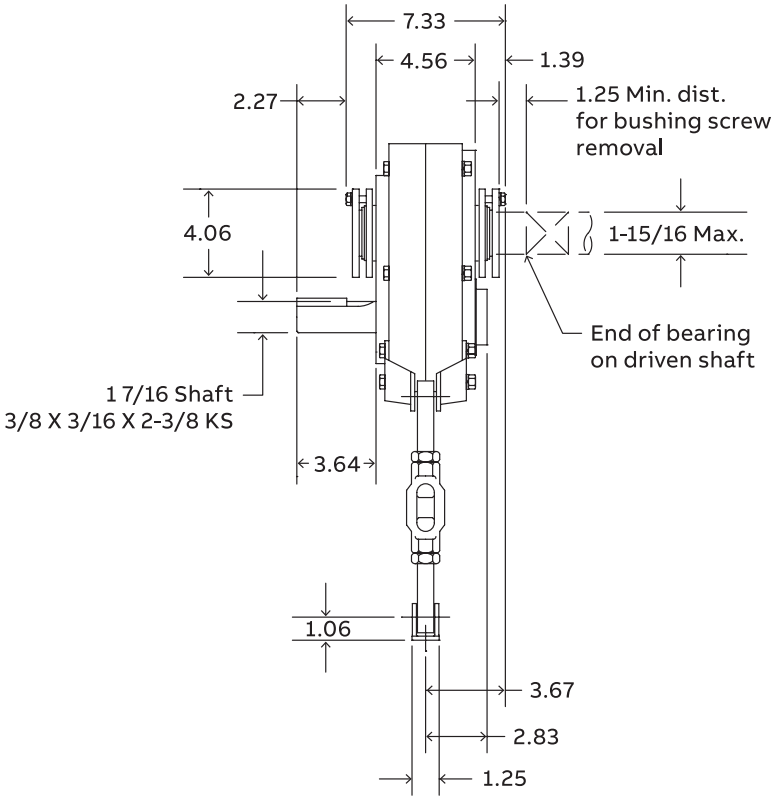
Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

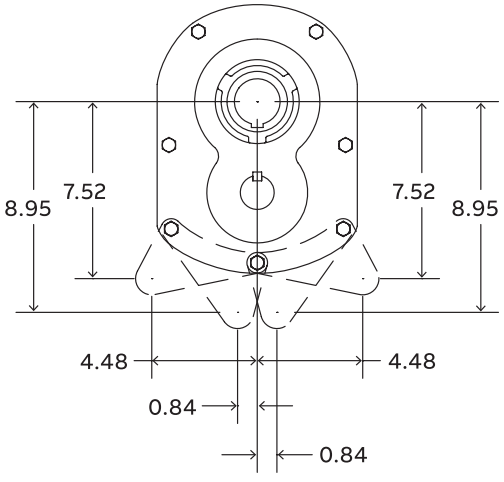
TXT205E

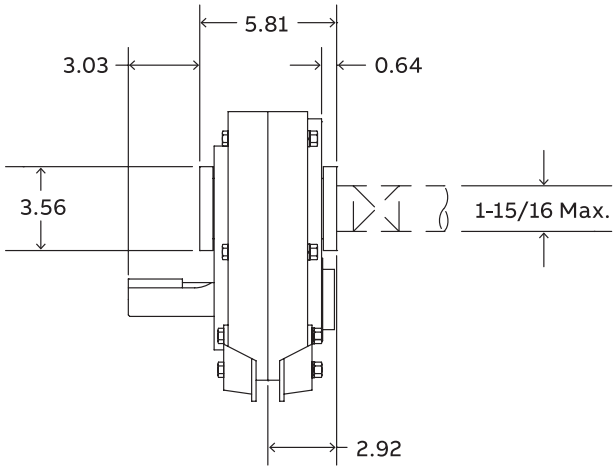
Single-reduction taper-bushed





Single-reduction straight bore





All dimensions are in inches.

TXT205E

Single-reduction taper-bushed

TXT205E taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT205ET	242249	115S05	5.29	52

TXT205E straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT205ES	242253	115S05	5.29	52

Accessories for TXT205E reducers

Description	Part number	Weight (lb)
TXT205 Backstop assembly	252101	1.0
TA1M Standard motor mount (56T—215T)	241391	37.3
TXT2S TA reducer belt guard (56T—215T)	242397	36.0
TAB2 Bottom motor mount (56T—215T) ♠ ♣	242421	34.0
TXT1—TXT4 Hydra-Lock desiccant breather Kit HL0	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 1—4 Immersion heater	241103	2.0
TXT205 Lube kit	LUBEKITTXT205	6.9
3/8 Sight oil level gauge (TXT1—4)	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	900110 *	2.0
TXT205 Taconite auxiliary seal kit ♥	272459	5.8

TXT2 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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
1-1/2	▲	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
1-1/8	▲	242146	—	1/4 x 1/8 x 6-11/16	—	3.8	—

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT2E	242717	0.5	242716	2

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.
* When split cover is used with a backstop, the cover may require slight modification for clearance

Shaft guard and kits

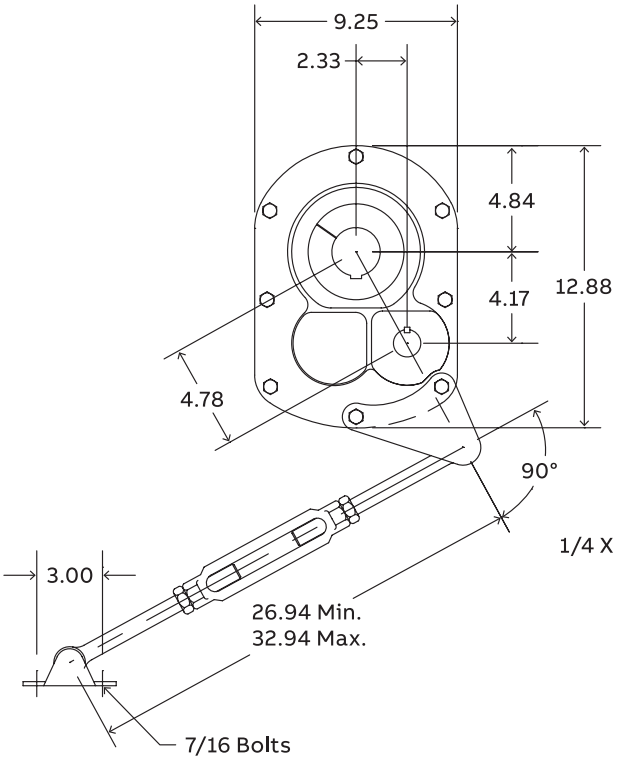
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT2E	020570	3	TXTShaftGuard-02	5

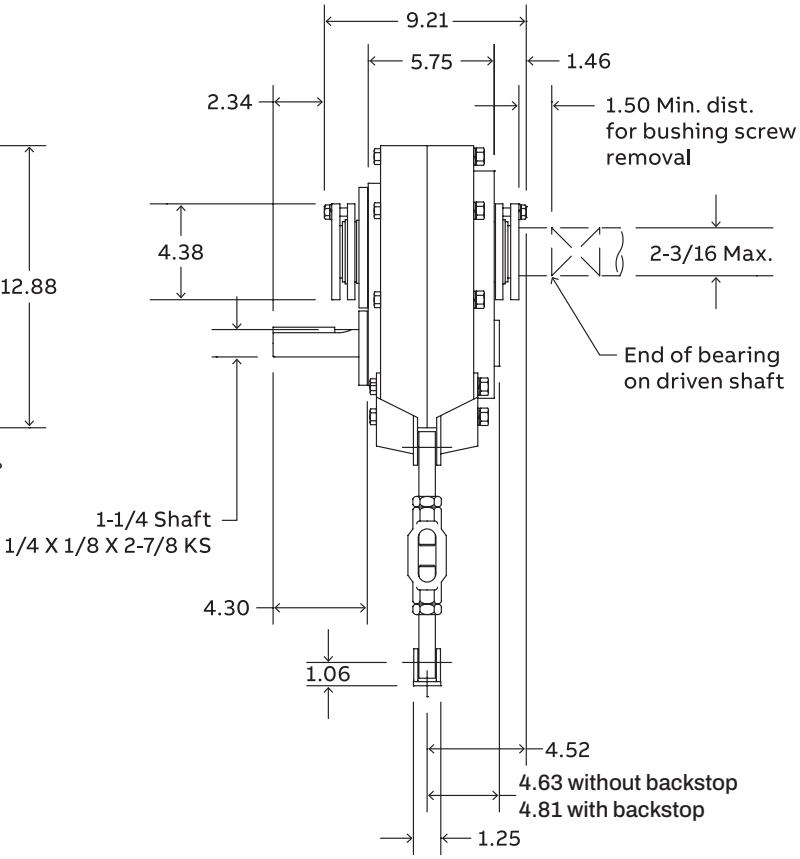
Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

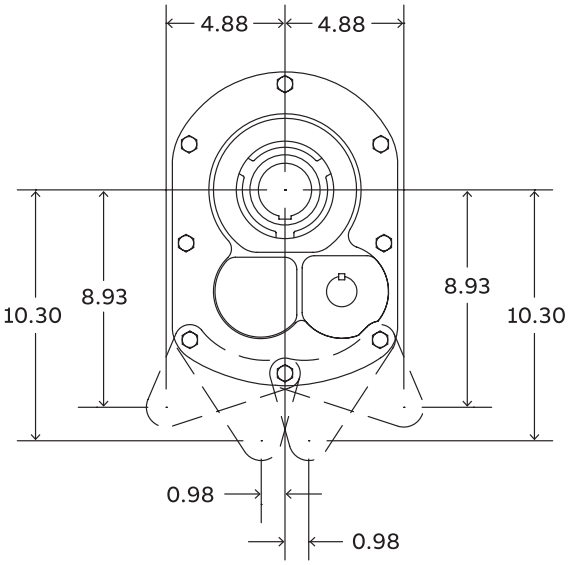
TXT3E

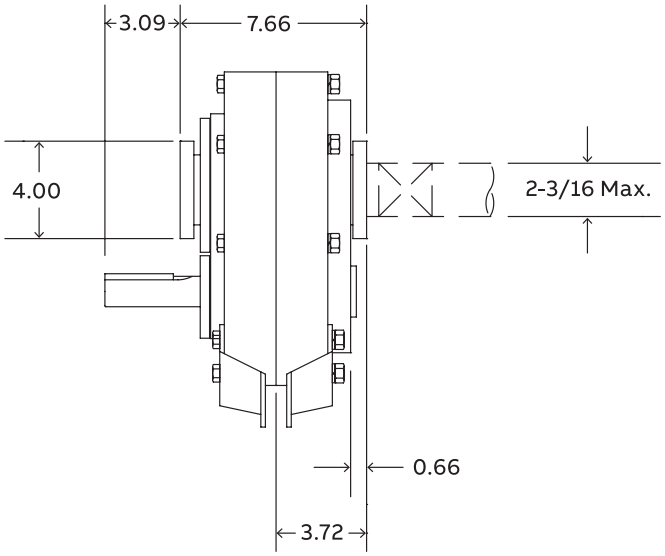
Double-reduction taper-bushed





Double-reduction straight bore





All dimensions are in inches.

TXT3E

Double-reduction taper-bushed

TXT3E taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT309ET	E243500	203D09	8.91	98
TXT315ET	E243501	203D15	14.88	98
TXT325ET	E243502	203D25	24.71	98

TXT3E straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT309ES	E243512 ♣	203D09	8.91	98
TXT315ES	E243513	203D15	14.88	98
TXT325ES	E243514	203D25	24.71	98

Accessories for TXT3E reducers

Description	Part number	Weight (lb)
TXT3E Backstop assembly	243737	0.6
TXT3 Cooling fan assembly	243581 *	3.0
TA3M Standard motor mount (56T—215T)	243391	38.0
TA3M Special motor mount (254T—256T) ♠ ♣	243393	45.0
TXT3S TA reducer belt guard (56T—215T)	243389	43.0
TA3ML Long motor mount (143T—215T) ♣	243392	42.0
TXT3D TA reducer belt guard for long motor mount (56T—215T) ♣	243164	52.0
TAB3 Bottom motor mount (143T—286T) ♠ ♣	243404	54.0
TXT1—TXT4 Hydra-Lock desiccant breather Kit HLO	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 1—4 Immersion heater	241103	2.0
TXT3 Lube kit	LUBEKITTXT3	8.1
3/8 Sight oil level gauge (TXT1—4)	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	900110 *	2.0
TXT3A Taconite auxiliary seal kit ♥	243577	7.6

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

TXT3E bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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
1-11/16	▲	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

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT3E	243717	0.5	243716	2

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

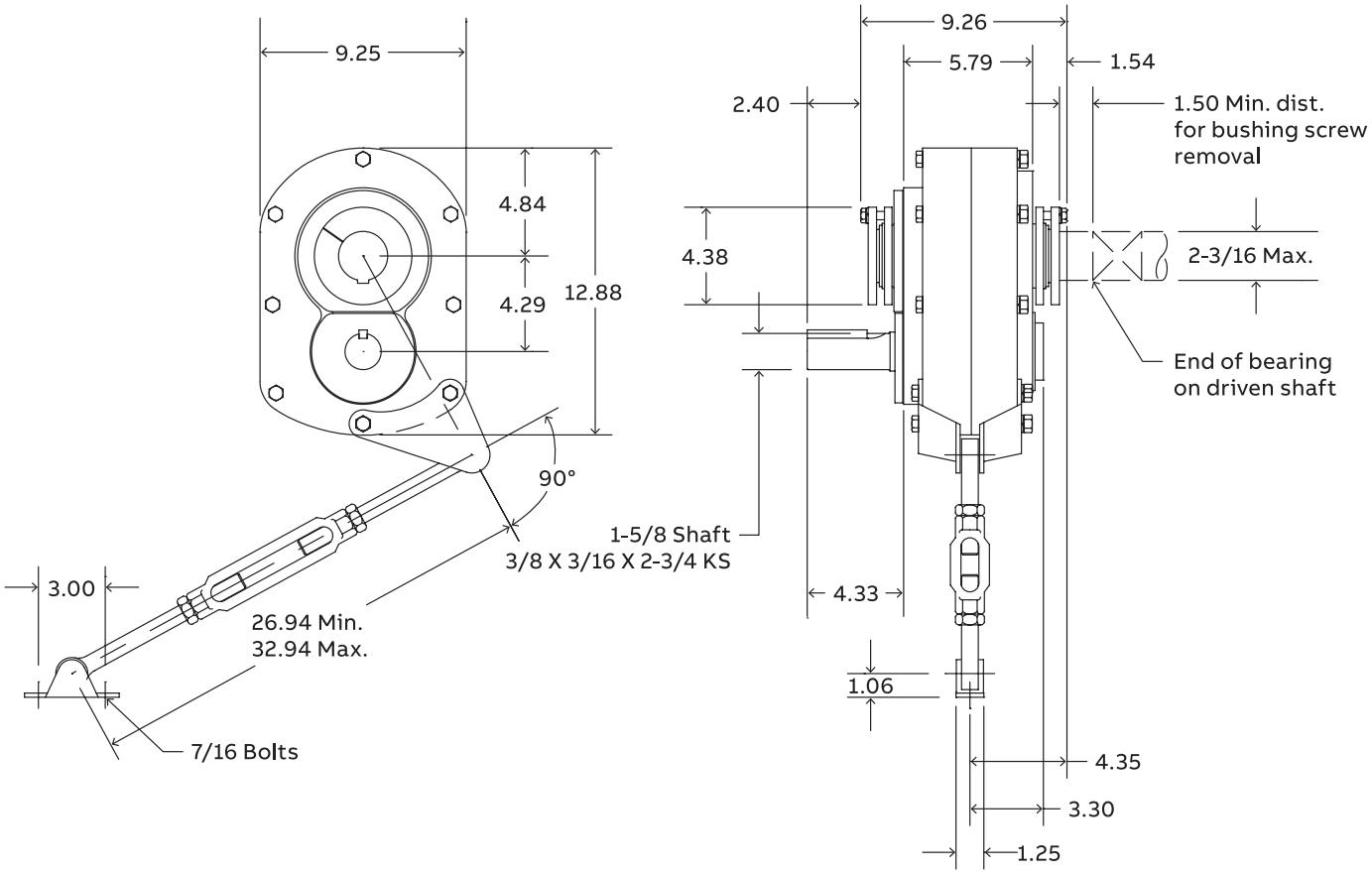
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT3E	020570	3	TXTShaftGuard-03	5

Kits include adapter and extension for that size reducer.

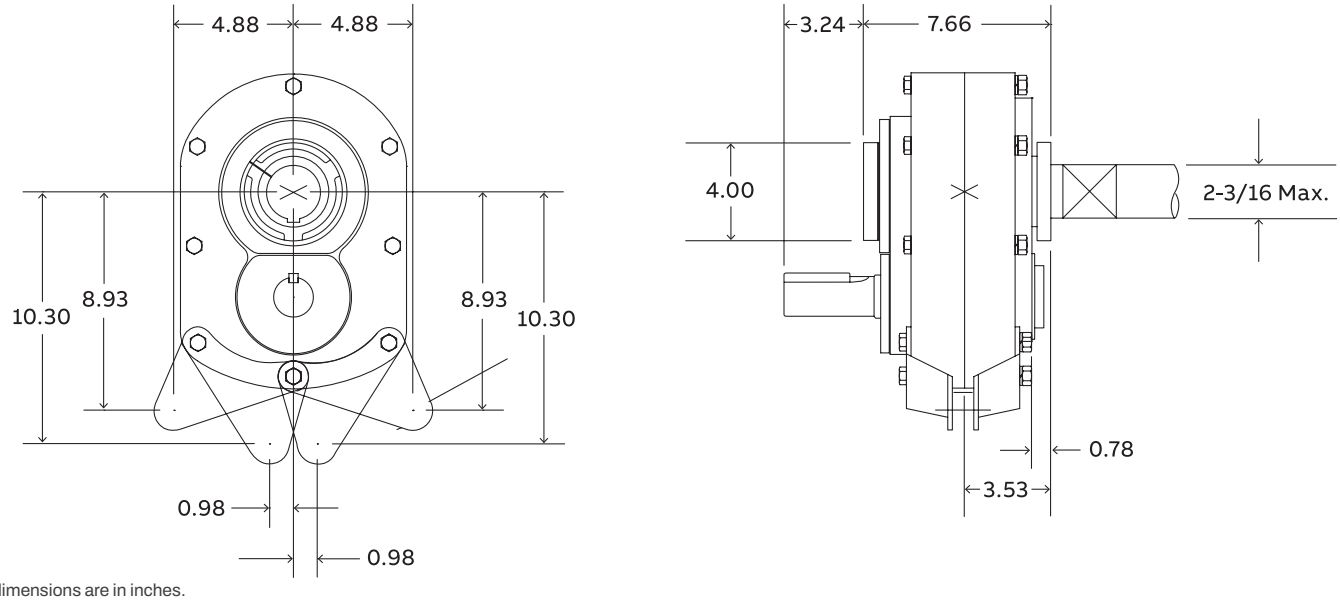
♣ Made to order
† Shaft key furnished
▲ Check the driven shaft and key for strength
◆ Preferred bore, no bushing required for this bore size
○ Stock TXT reducers are drilled for vertical mounting
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 for reducer part numbers 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

TXT305E

Single-reduction taper-bushed



Single-reduction straight bore



All dimensions are in inches.

TXT305E

Single-reduction taper-bushed

TXT305E taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT305ET	253151	203S05	5.60	86

TXT305E straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT305ES	**253155**	203S05	5.60	86

Accessories for TXT305E reducers

Description	Part number	Weight (lb)
TXT305E Backstop assembly	252101	1.0
TXT305 Cooling fan assembly	253188 *	3.0
TA3M Standard motor mount (56T—215T)	243391	38.0
TA3M Special motor mount (254T—256T) ♠ ♣	243393	45.0
TXT3S TA reducer belt guard (56T—215T)	243389	43.0
TA3ML Long motor mount (143T—215T) ♣	243392	42.0
TXT3S TA reducer belt guard for long motor mount (56T—215T) ♣	243164	55.0
TAB3 Bottom motor mount (143T—286T) ♠ ♣	243404	54.0
TXT1—TXT4 Hydra-Lock desiccant breather Kit HLO	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 1—4 Immersion heater	241103	2.0
TXT305 Lube kit	LUBEKITTXT305	8.1
3/8 Sight oil level gauge (TXT1—4)	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	900110 *	2.0
TXT305A Taconite auxiliary seal kit ♥	253186	7.6

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

TXT3 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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
1-11/16	▲	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

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT3E	243717	0.5	243716	2

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

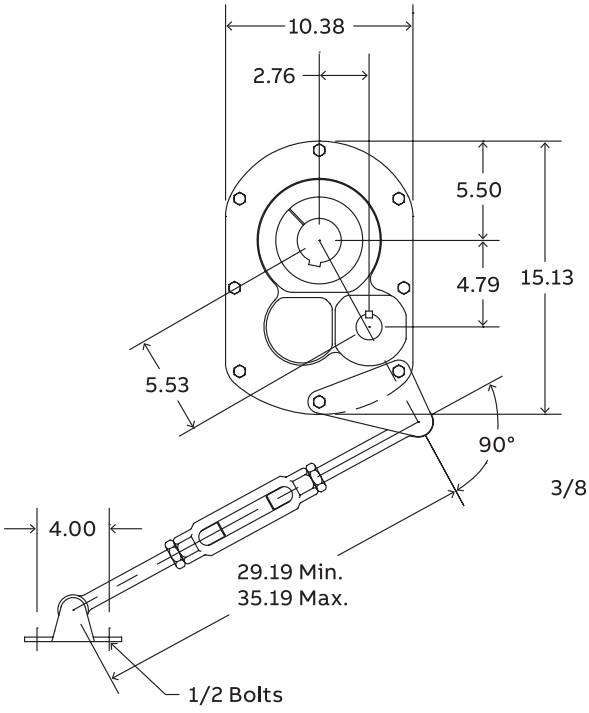
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT3E	020570	3	TXTShaftGuard-03	5

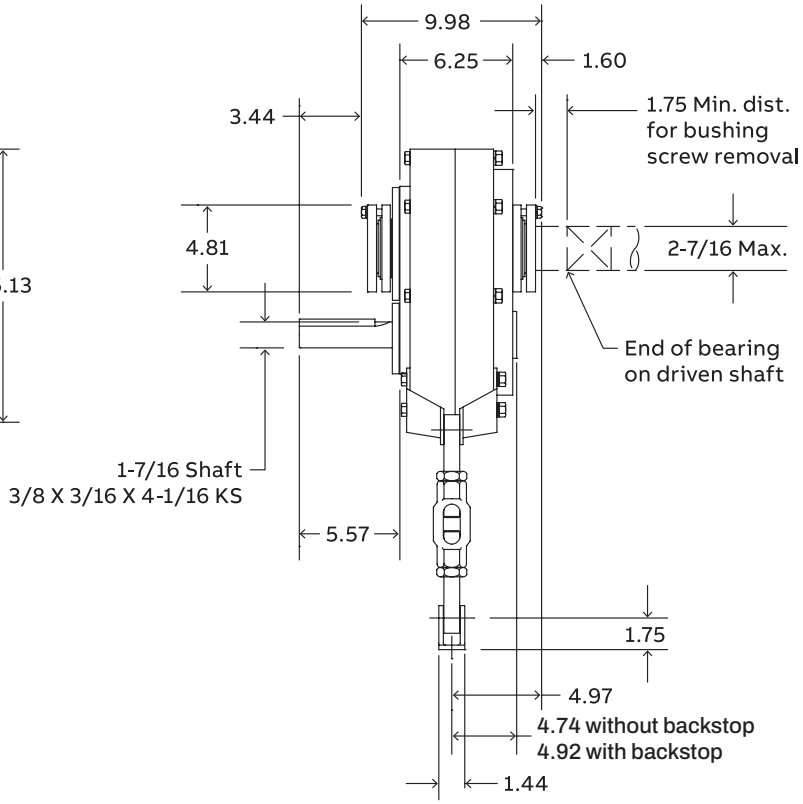
Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

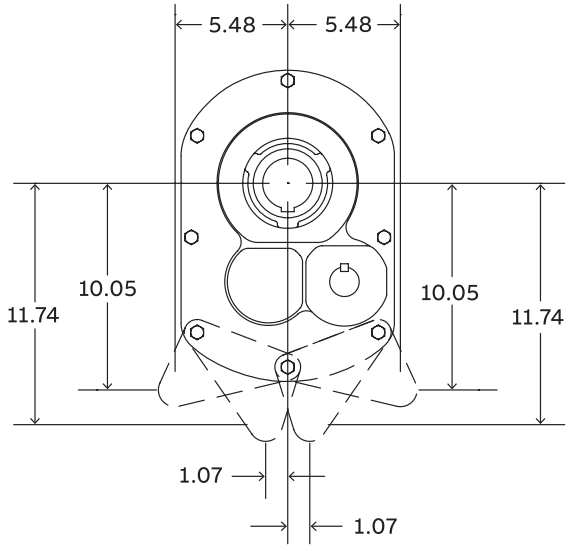
TXT4E

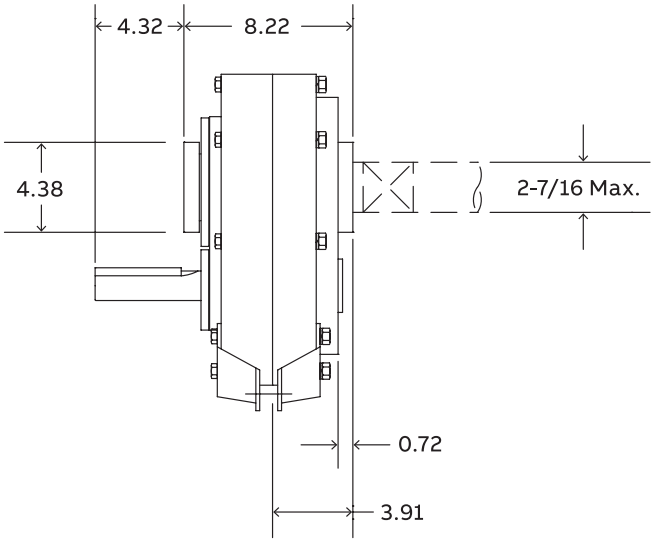
Double-reduction taper-bushed





Double-reduction straight bore





All dimensions are in inches.

TXT4E

Double-reduction taper-bushed

TXT4E taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT409ET	E244525	207D09	9.67	139
TXT415ET	E244526	207D15	15.13	139
TXT425ET	E244527	207D25	24.38	139

TXT4E straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT409ES	E244537 ♣	207D09	9.67	139
TXT415ES	E244538	207D15	15.13	139
TXT425ES	E244539	207D25	24.38	139

Accessories for TXT4E reducers

Description	Part number	Weight (lb)
TXT4E Backstop assembly	903102	1.2
TXT4 Cooling fan assembly *	272594	3.0
TA4M Standard motor mount (143T—286T)	244391	75.0
TXT4D TA reducer belt guard (143T—286T)	244395	54.0
TA4ML Long motor mount (143T—286T)	244392	75.0
TXT4D TA reducer belt guard for long motor mount (143T—286T) ♠ ♣	244151	65.0
TAB4 Bottom motor mount (143T—326T) ♠ ♣	244404	55.0
TXT1—TXT4 Hydra-Lock desiccant breather Kit HLO	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 1—4 Immersion heater	241103	2.0
TXT4 Lube kit	LUBEKITTXT4	10.4
3/8 Sight oil level gauge (TXT1—4)	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	900110 *	2.0
TXT4A Taconite auxiliary seal kit ♥	244676	7.7

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

TXT4E bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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	—
2-3/16	▲	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	▲	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
1-7/16	▲	244079	244420	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.8	4.1

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT4E	244717	1.2	244716	3

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.
* When split cover is used with a backstop, the cover may require slight modification for clearance

Shaft guard and kits

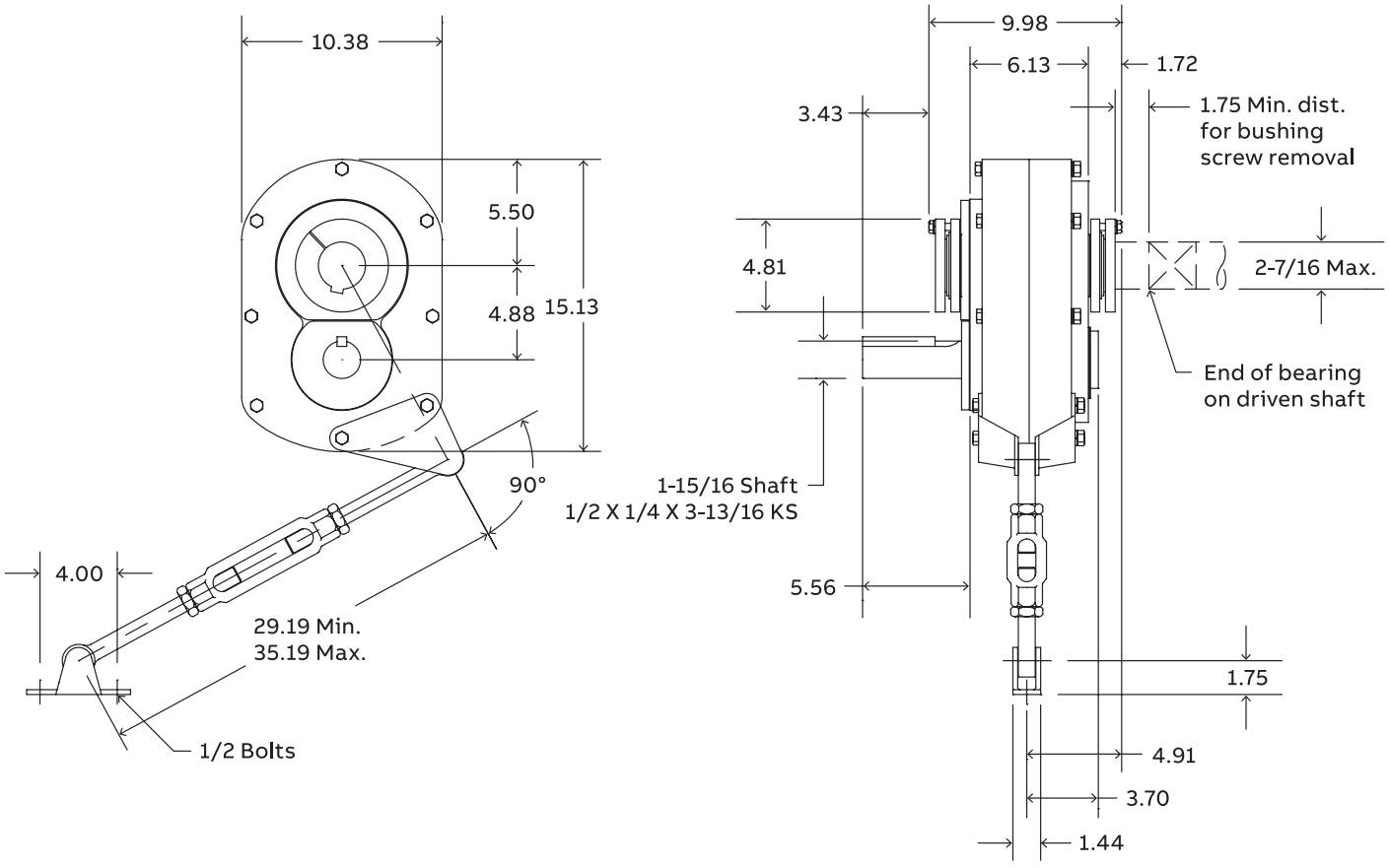
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT4E	020572	4	TXTShaftGuard-04	7

Kits include adapter and extension for that size reducer.

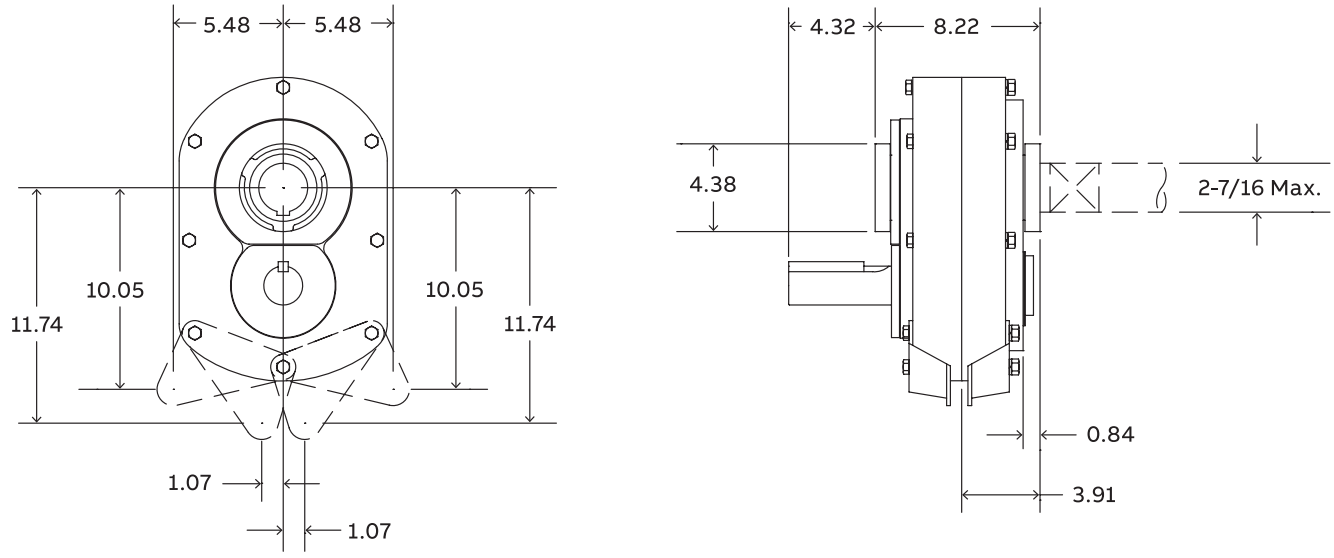
♣ Made to order
† Shaft key furnished
▲ Check the driven shaft and key for strength
◆ Preferred bore, no bushing required for this bore size
○ Stock TXT reducers are drilled for vertical mounting
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 for reducer part numbers 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

TXT405E

Single-reduction taper-bushed



Single-reduction straight bore



All dimensions are in inches.

TXT405E

Single-reduction taper-bushed

TXT405E taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT405ET	254200	207S05	5.65	122

TXT405E straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT405ES	254204	207S05	5.65	122

Accessories for TXT405E reducers

Description	Part number	Weight (lb)
TXT405E Backstop assembly	244148	0.9
TXT405 Cooling fan assembly *	254268	3.0
TA4M Standard motor mount (143T—286T)	244391	75.0
TXT4S TA reducer belt guard (143T—286T)	244397	54.0
TA4ML Long motor mount (143T—286T)	244392	75.0
TXT4D TA reducer belt guard for long motor mount (143T—286T) ♠ ♣	244164	65.0
TAB4 Bottom motor mount (143T—326T) ♠ ♣	244404	55.0
TXT1—TXT4 Hydra-Lock desiccant breather Kit HLO	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 1—4 Immersion heater	241103	2.0
TXT405 Lube kit	LUBEKITTXT405	12.7
3/8 Sight oil level gauge (TXT1—4)	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	900110 *	2.0
TXT405A Taconite auxiliary seal kit ♥	254267	7.9

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

TXT4 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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	—
2-3/16	▲	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	▲	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
1-7/16	▲	244079	244420	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.8	4.1

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT4E	244717	1.2	244716	3

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

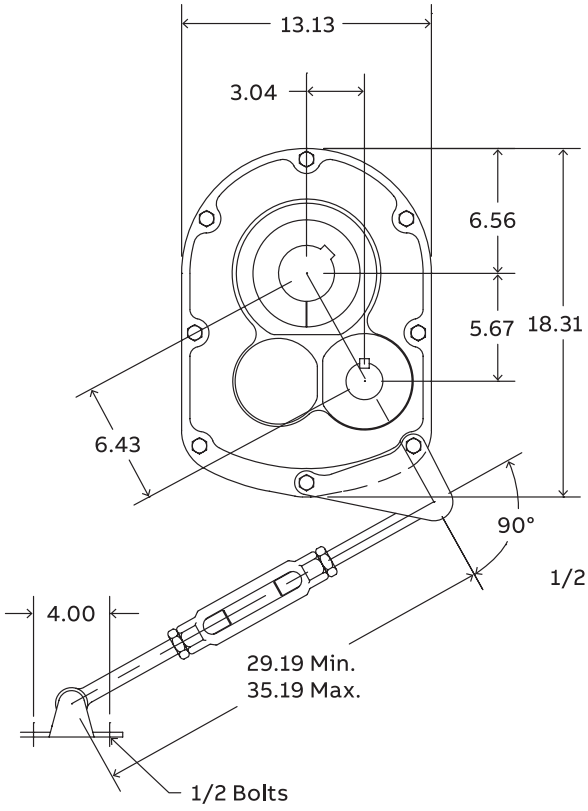
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT4E	020572	4	TXTShaftGuard-04	7

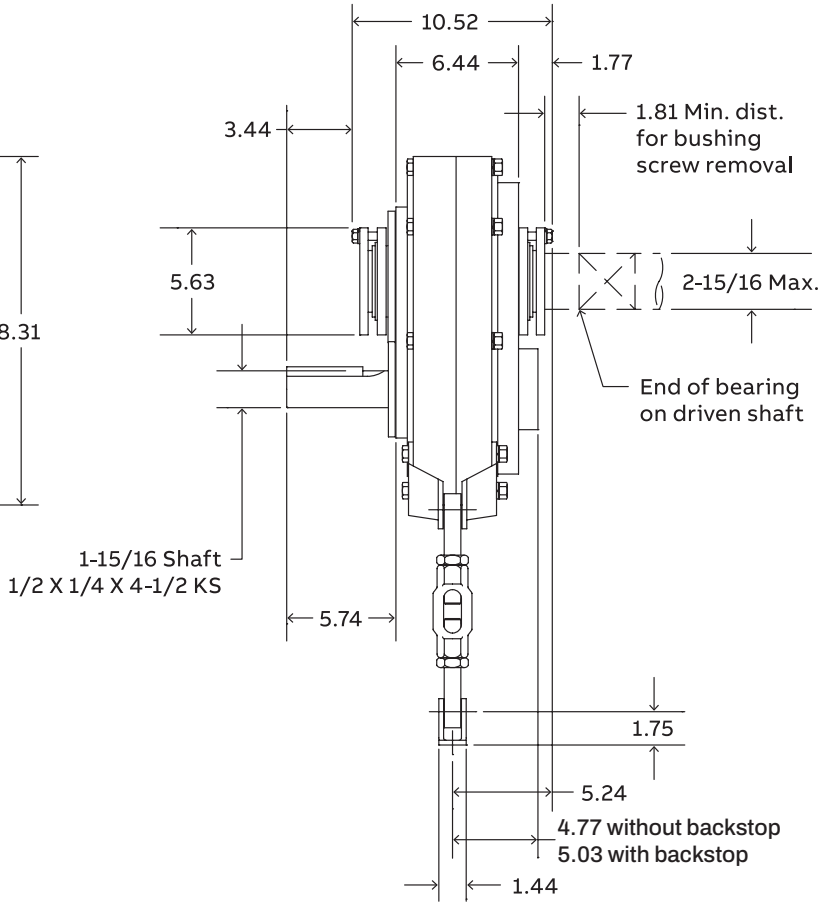
Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

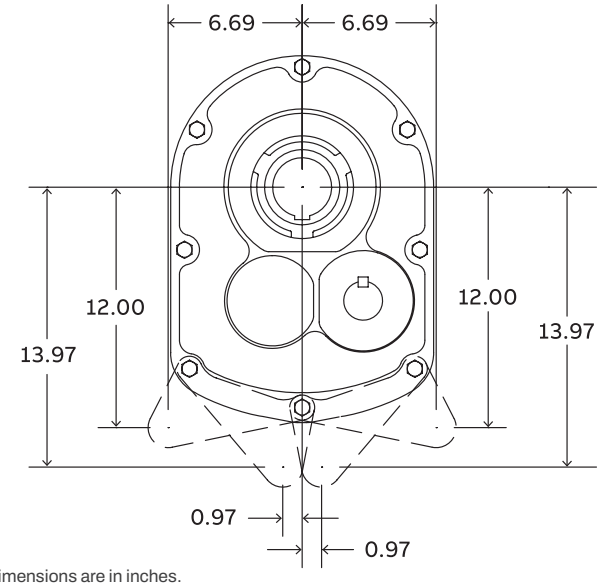
TXT5E

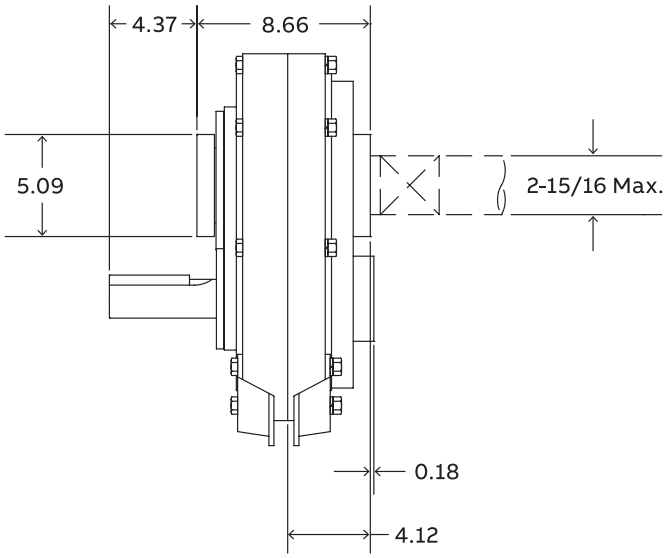
Double-reduction taper-bushed





Double-reduction straight bore





All dimensions are in inches.

TXT5E

Double-reduction taper-bushed

TXT5E taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT509ET	E245550	215D09	8.95	207
TXT515ET	E245551	215D15	15.40	207
TXT525ET	E245552	215D25	25.56	207

TXT5E straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT509ES	E245562 ♣	215D09	8.95	207
TXT515ES	E245563	215D15	15.40	207
TXT525ES	E245564	215D25	25.56	207

Accessories for TXT5E reducers

Description	Part number	Weight (lb)
TXT5E Backstop assembly	905102	2.2
TXT5 Cooling fan assembly	272369	3.0
TA5M Standard motor mount (143T—286T)	245391	76.0
TXT5D TA reducer belt guard (143T—286T)	245387	75.0
TA5M Special motor mount (324T—326T) ♠ ♣	245393	79.0
TA5ML Long motor mount (143T—286T)	245392	89.0
TXT5D TA reducer belt guard for long motor mount (143T—286T) ♣	245102	90.0
TAB5 Bottom motor mount (143T-326T) ♠	245405	55.0
TXT5—TXT9 Hydra-Lock desiccant breather Kit HL1	964364	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 5 RELIABILITY KIT	TXT5RELKIT	24.3
TXT 5—6 Immersion heater	241104	2.0
TXT5 Lube kit	LUBEKITTXT5	18.5
1/2 Sight oil level gauge (TXT5—6)	430121 *	1.0
1/2-3/4 Sight oil level tube (TXT5—6)	900110 *	2.0
TXT5 Taconite auxiliary seal kit ♥	245635	11.9

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

TXT5E bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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
2-3/16	▲	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	10.2	6.1

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT5E	245686	1.0	245685	4

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

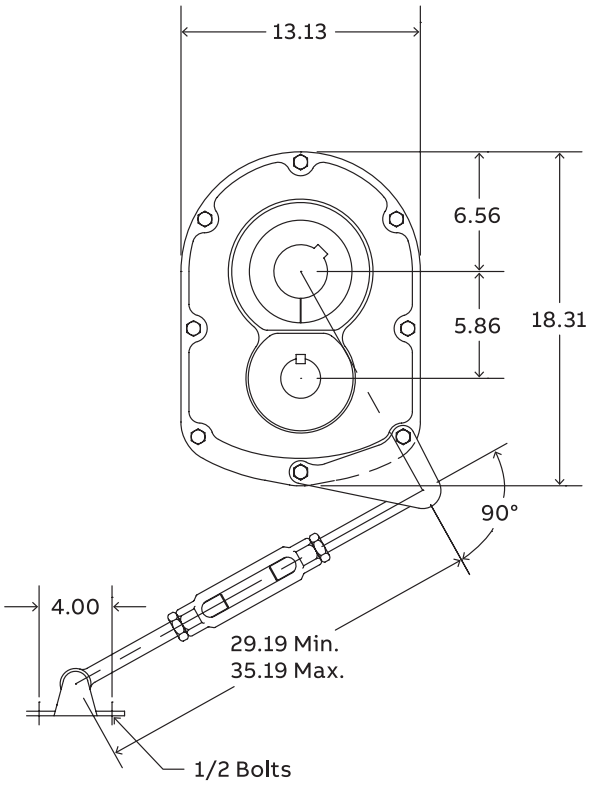
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT5E	020574	5	TXTShaftGuard-05	9

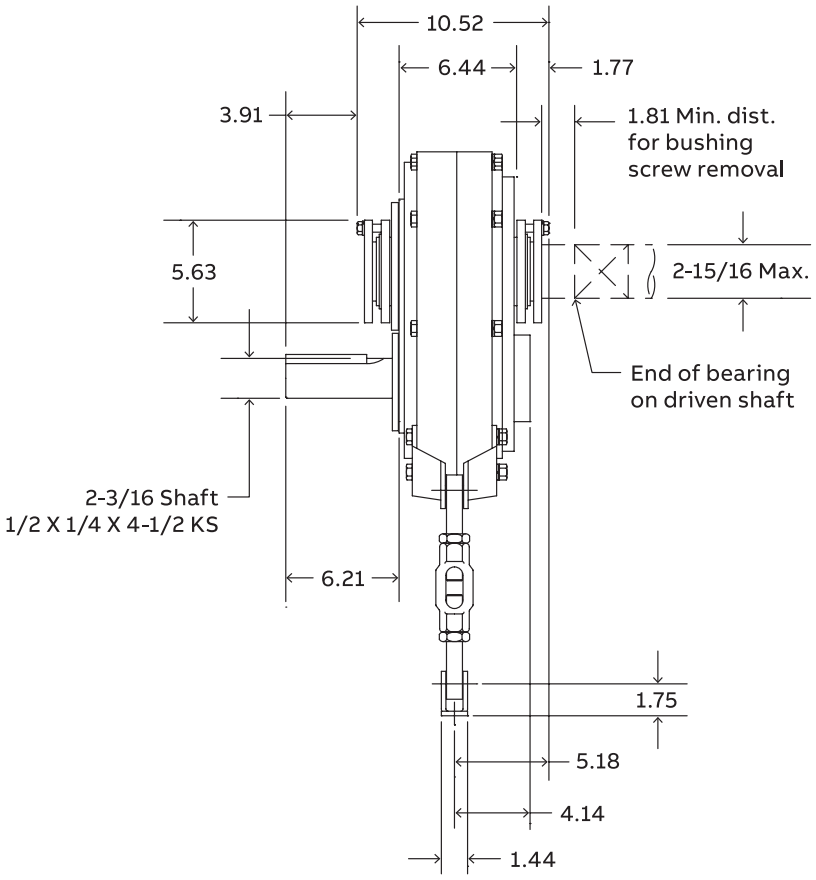
Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

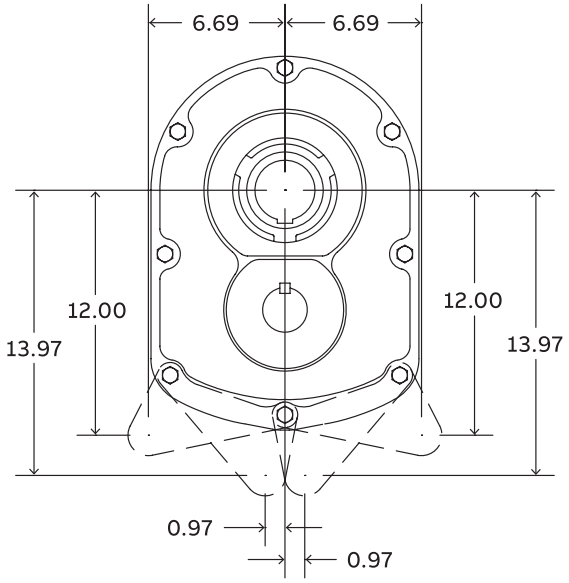
TXT505E

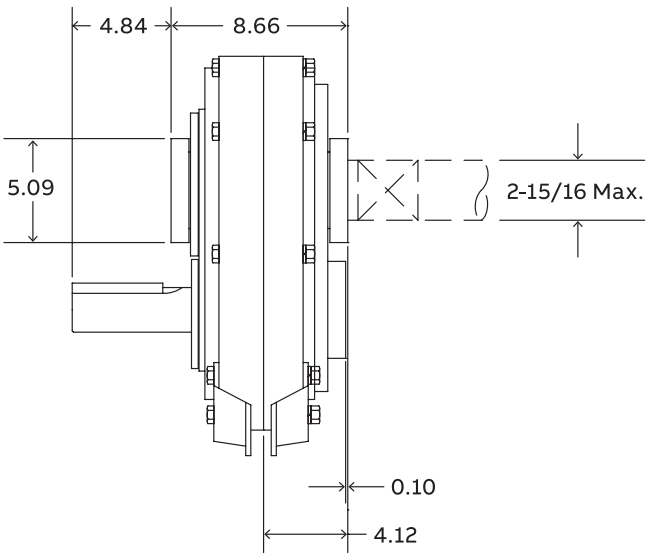
Single-reduction taper-bushed





Single-reduction straight bore





All dimensions are in inches.

TXT505E

Single-reduction taper-bushed

TXT505E taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT505ET	255200	215S05	5.67	182

TXT505E straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT505ES	255204	215S05	5.67	182

Accessories for TXT5E reducers

Description	Part number	Weight (lb)
TXT5E Backstop assembly	246101	1.8
TXT5 Cooling fan assembly	255231	3.0
TA5M Standard motor mount (143T—286T)	245391	76.0
TXT5D TA reducer belt guard (143T—286T)	245389	59.0
TA5M Special motor mount (324T—326T) ♠ ♣	245393	79.0
TA5ML Long motor mount (143T—286T)	245392	89.0
TXT5D TA reducer belt guard for long motor mount (143T—286T) ♣	245162	90.0
TAB5 Bottom motor mount (143T—326T) ♠	245405	55.0
TXT5—TXT9 Hydra-Lock desiccant breather Kit HL1	964364	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 5 RELIABILITY KIT	TXT5RELKIT	24.3
TXT 5—6 Immersion heater	241104	2.0
TXT5 Lube kit	LUBEKITTXT5	18.5
1/2 Sight oil level gauge (TXT5—6)	430121 *	1.0
1/2—3/4 Sight oil level tube (TXT5—6)	900110 *	2.0
TXT505 Taconite auxiliary seal kit ♥	255230	12.3

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

TXT5 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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
2-3/16	▲	245090	245424	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10.0	5.6
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

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT5E	245686	1.0	245685	4

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

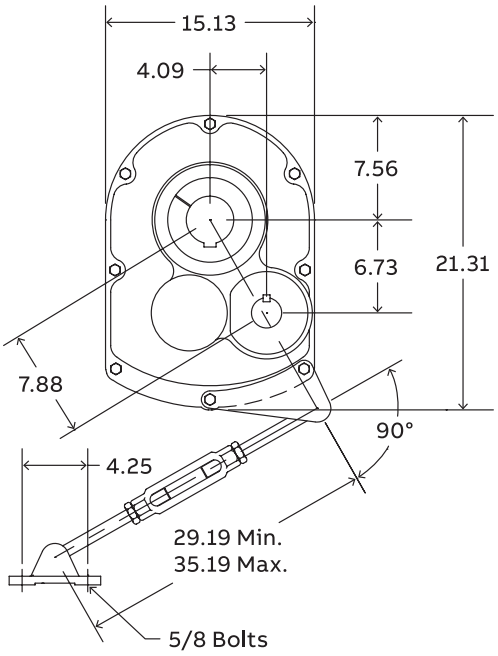
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT5E	020574	5	TXTShaftGuard-05	9

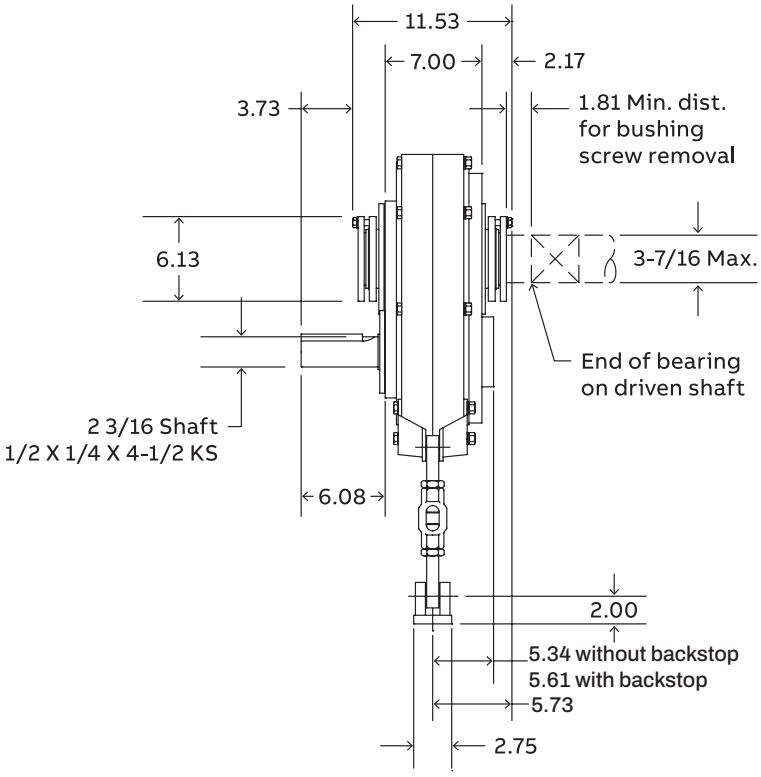
Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

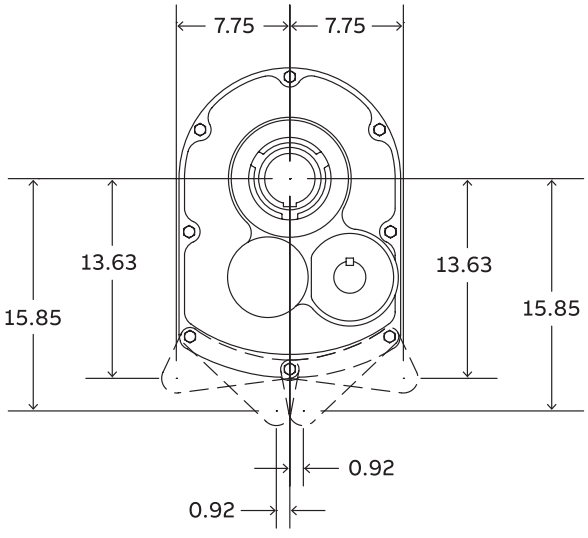
TXT6E

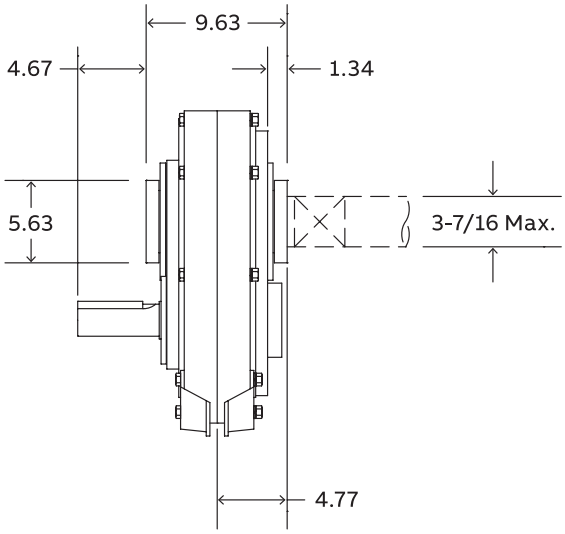
Double-reduction taper-bushed





Double-reduction straight bore





All dimensions are in inches.

TXT6E

Double-reduction taper-bushed

TXT6E taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT609ET	E246149 ♣	307D09	9.20	285
TXT615ET	E246150	307D15	15.33	285
TXT625ET	E246151	307D25	25.13	285

TXT6E straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT609ES	E246327 ♣	307D09	9.20	285
TXT615ES	E246158 ♣	307D15	15.33	285
TXT625ES	E246159	307D25	25.13	285

Accessories for TXT6E reducers

Description	Part number	Weight (lb)
TXT6E Backstop assembly	246092	2.5
TXT6 Cooling fan assembly *	272681	3.0
TA6M Standard motor mount (143T—286T)	246391	76.0
TXT6D TA reducer belt guard (143T—226T)	246368	75.0
TA6M Special motor mount (324T—326T) ♠ ♣	246388	79.0
TA6ML Long motor mount (143T—286T)	246390	89.0
TXT6D TA reducer belt guard for long motor mount (143T—26T) ♣	246132	90.0
TAB6 Bottom motor mount (143T—226T) ♠	246392	55.0
TXT5—TXT9 Hydra-Lock desiccant breather Kit HL1	964364	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 6 RELIABILITY KIT	TXT6RELKIT	24.3
TXT 5—6 Immersion heater	241104	2.0
TXT6 Lube kit	LUBEKITTXT6	18.5
1/2 Sight oil level gauge (TXT5—6)	430121 *	1.0
1/2—3/4 Sight oil level tube (TXT5—6)	900110 *	2.0
TXT6B Taconite auxiliary seal kit ♥	272450	17.7

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

TXT6E bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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
2-7/16	▲	246263	246422	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 3-1/2	14.4	8.5
2-3/16	▲	246261	246420 ♣	1/2 x 1/4 x 10-11/16	1/2 x 1/4 x 3-1/2	15.30	11.0

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT6E	246799	1.0	246798	4

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

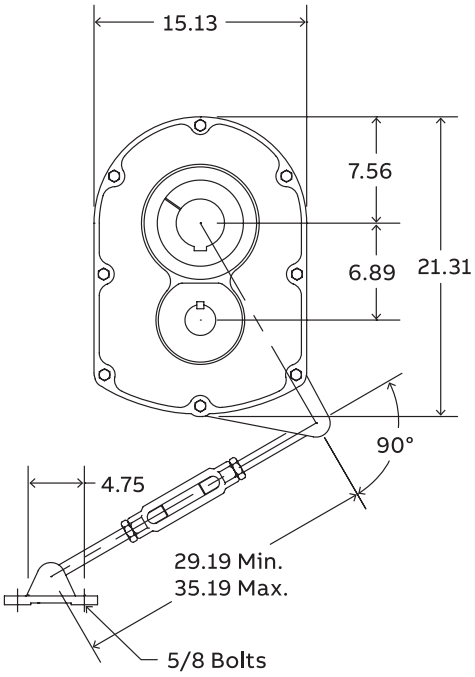
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT6E	020575	5	TXTShaftGuard-06	9

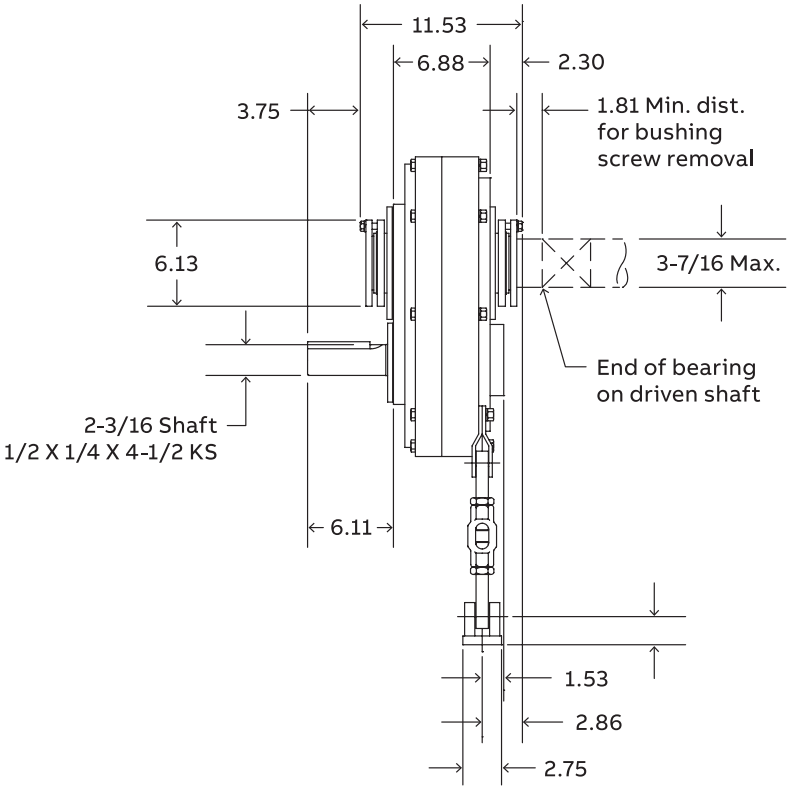
Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

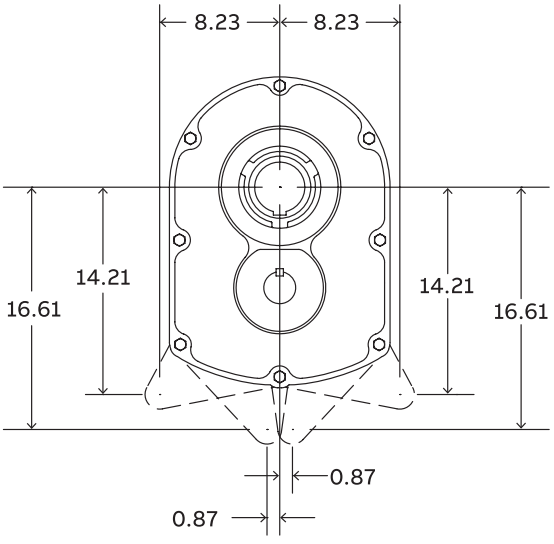
TXT605E

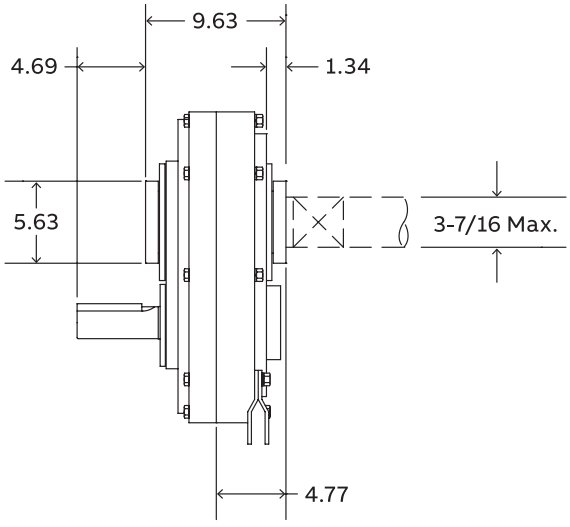
Single-reduction taper-bushed





Single-reduction straight bore





All dimensions are in inches.

TXT605E

Single-reduction taper-bushed

TXT605E Taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT605ET	246380	307S05	5.67	251

TXT605E Straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT605ES	246382	307S05	5.67	251

Accessories for TXT605E reducers

Description	Part number	Weight (lb)
TXT605 Backstop assembly	246092	2.5
TXT605 Cooling fan assembly* ♣	272681	3.0
TA6M Standard motor mount (143T—286T)	246391	76.0
TXT6D TA reducer belt guard (143T—286T)	246368	75.0
TA6M Special motor mount (324T—326T) ♠ ♣	246388	79.0
TA6ML Long motor mount (143T—286T)	246390	89.0
TXT6S TA reducer belt guard for long motor mount (143T—286T) ♣	246132	90.0
TAB6 Bottom motor mount (143T—226T) ♠	246392	55.0
TXT5—TXT9 Hydra-Lock desiccant breather Kit HL1	964364	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 6 RELIABILITY KIT	TXT6RELKIT	24.3
TXT 5—6 Immersion heater	241104	2.0
TXT6 Lube kit	LUBEKITTXT6	18.5
1/2 Sight oil level gauge (TXT5—6)	430121 *	1.0
1/2—3/4 Sight oil level tube (TXT5—6)	900110 *	2.0
TXT6B Taconite auxiliary seal kit ♥	272450	17.7

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

TXT6 Bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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
2-7/16	▲	246263	246422	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 3-1/2	14.40	8.5
2-3/16	▲	246261	246420 ♣	1/2 x 1/4 x 10-11/16	1/2 x 1/4 x 3-1/2	15.30	11.0

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT6E	246799	1.0	246798	4

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

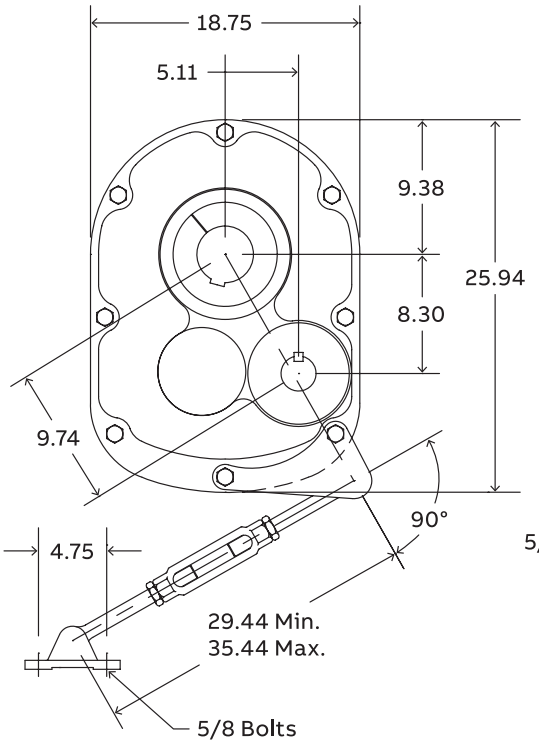
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT6E	020575	5	TXTShaftGuard-06	9

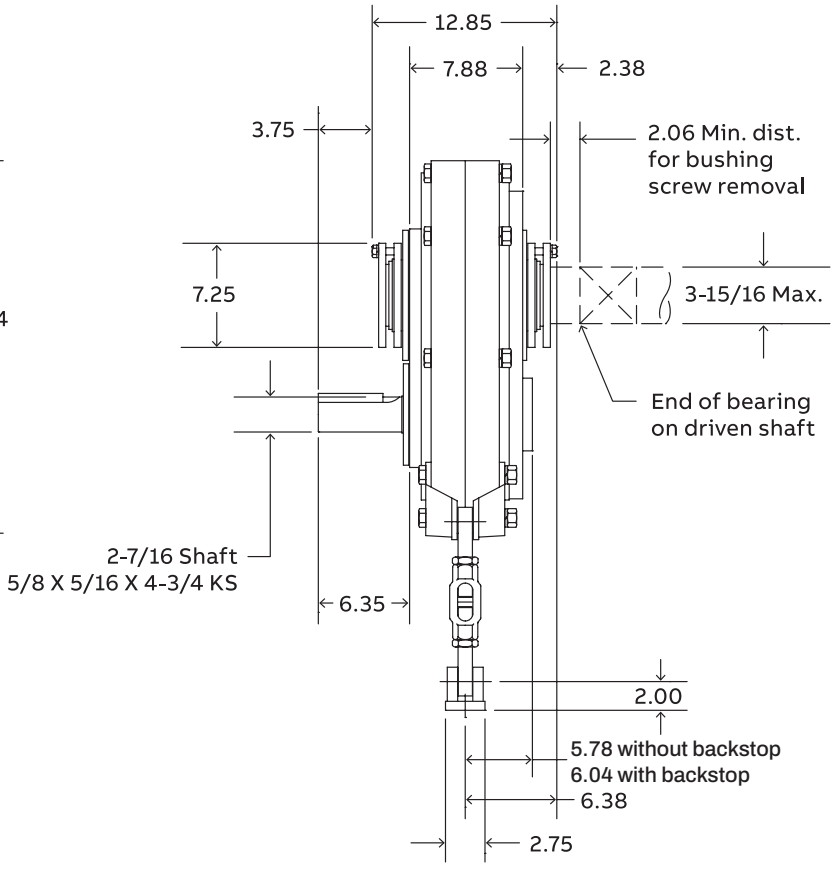
Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

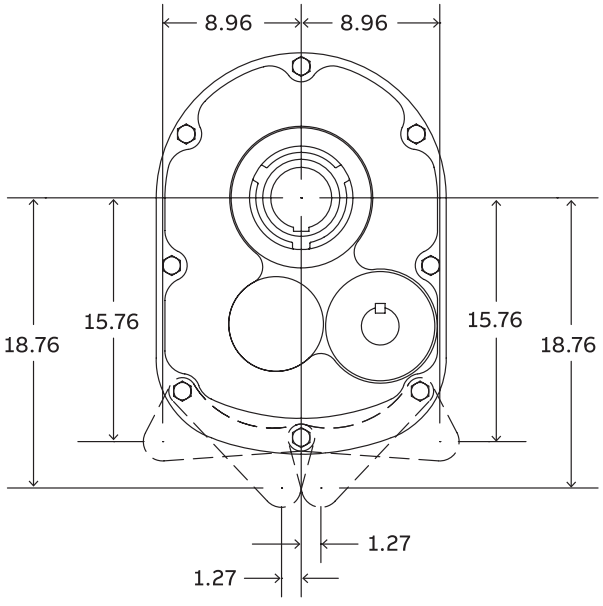
TXT7E

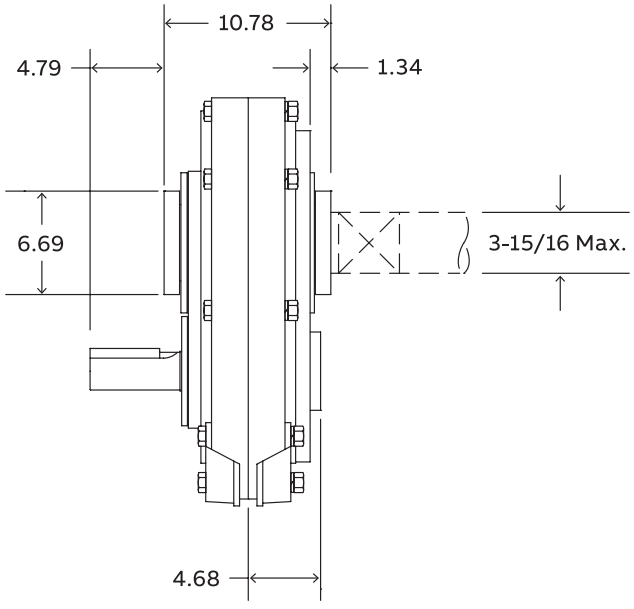
Double-reduction taper-bushed





Double-reduction straight bore





All dimensions are in inches.

TXT7E

Double-reduction taper-bushed

TXT7E taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT709ET	E247159	315D09	9.61	462
TXT715ET	E247160	315D15	15.23	462
TXT725ET	E247161	315D25	24.59	462

TXT7E straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT709ES	E247327 ♣	315D09	9.61	462
TXT715ES	E247168 ♣	315D15	15.23	462
TXT725ES	E247169	315D25	24.59	462

Accessories for TXT7E reducers

Description	Part number	Weight (lb)
TXT7 Cooling fan assembly *	272326	6.0
TXT7E Backstop assembly	247690	2.8
TA7M Standard motor mount (143T—365T)	247395	110.0
TXT7D TA reducer belt guard (143T—365T)	247390	90.0
TA7ML Long motor mount (143T—326T) ♣	247396	100.0
TXT7D TA reducer belt guard for long motor mount (143T—365T) ♣	247152	108.0
TAB7 Bottom motor mount (182T—326T) ♠ ♣	247404	105.0
TXT5—TXT9 Hydra-Lock desiccant breather Kit HL1	964364	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 7 RELIABILITY KIT	TXT7RELKIT	24.3
TXT 7—10 Immersion heater	241105	2.0
TXT7 Lube kit	LUBEKITTXT7	34.7
3/4 Sight oil level gauge (TXT7—TDT15)	430159	1.0
1/2—3/4 Sight oil level tube (TXT5—TDT15)	900110 *	2.0
TXT7 Taconite auxiliary seal kit ♥	272451	25.0

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

TXT7 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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
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
2-7/16	▲	272125	247420	5/8 x 5/16 x 11-27/32	5/8 x 5/16 x 3-1/2	24.2	14.2

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT7E	247683	1.0	247682	5

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

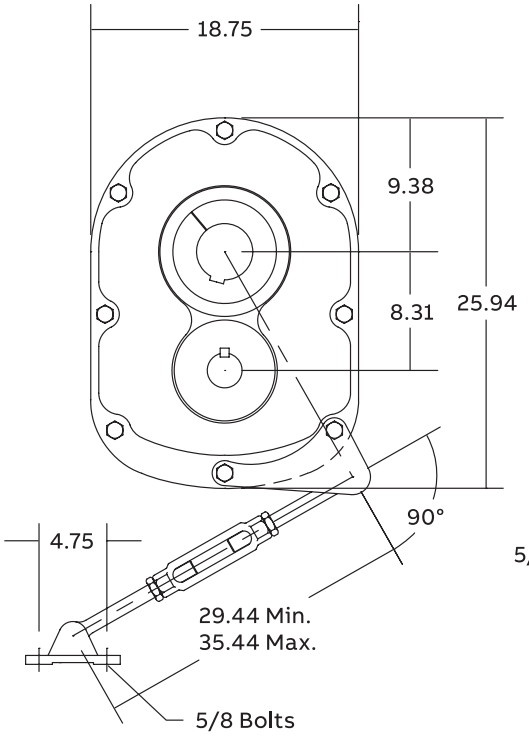
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT7E	020576	6	TXTShaftGuard-07	11

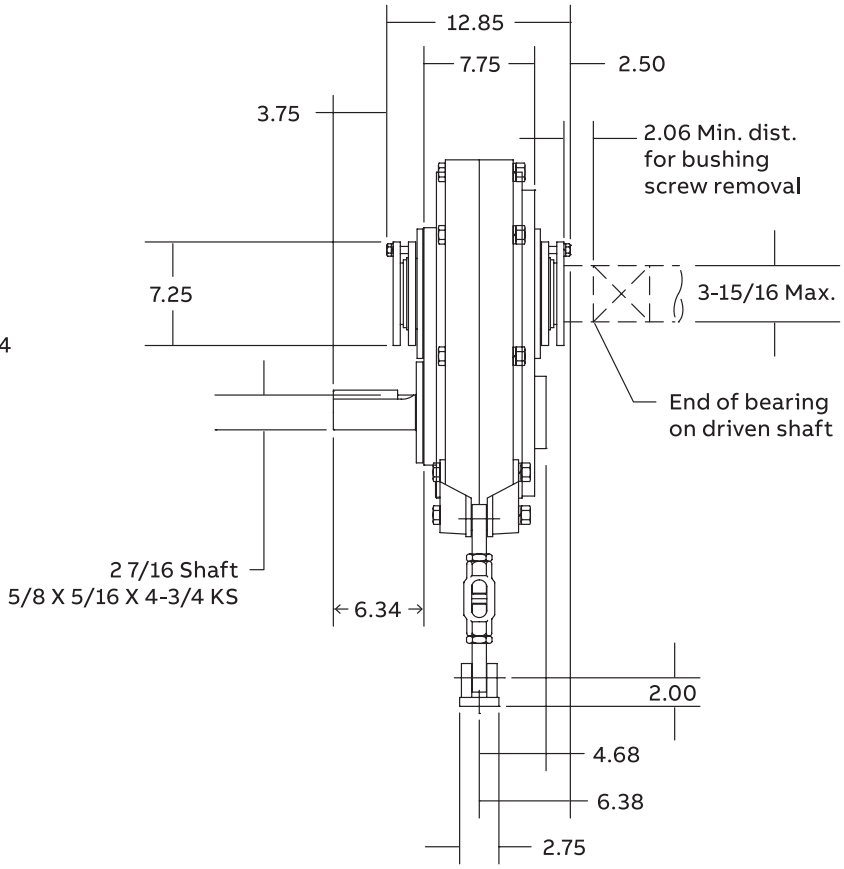
Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

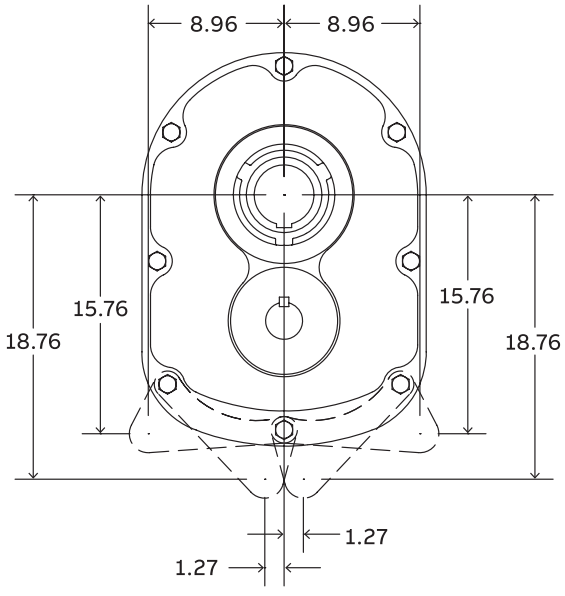
TXT705E

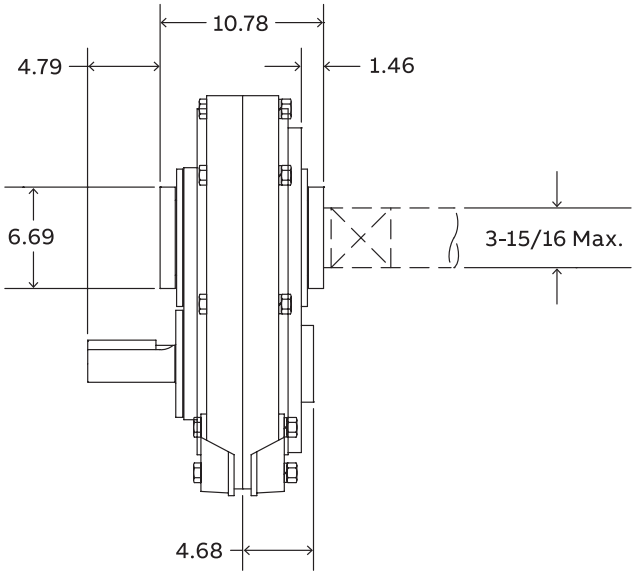
Single-reduction taper-bushed





Single-reduction straight bore





All dimensions are in inches.

TXT705E

Single-reduction taper-bushed

TXT705E taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT705ET	247285 ♣	315S05	5.36	410

TXT705E straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT705ES	247287 ♣	315S05	5.36	410

Accessories for TXT705E reducers

Description	Part number	Weight (lb)
TXT705 Cooling fan assembly * ♣	272685	6.0
TXT705 Backstop assembly	247260	2.8
TA7M Standard motor mount (143T—365T)	247395	110.0
TXT7S TA reducer belt guard (143T—365T)	247392	112.0
TA7ML Long motor mount (143T—326T) ♣	247396	100.0
TXT7S TA reducer belt guard for long motor mount (143T—365T) ♣	247146	135.0
TAB7 Bottom motor mount (182T—326T) ♠ ♣	247404	105.0
TXT5—TXT9 Hydra-Lock desiccant breather Kit HL1	964364	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 7 RELIABILITY KIT	TXT7RELKIT	24.3
TXT 7—10 Immersion heater	241105	2.0
TXT7 Lube kit	LUBEKITTXT7	34.7
3/4 Sight oil level gauge (TXT7—TDT15)	430159	1.0
1/2—3/4 Sight oil level tube (TXT5—TDT15)	900110 *	2.0
TXT7 Taconite auxiliary seal kit	272451	25.0

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

TXT7 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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
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
2-7/16	▲	272125	247420	5/8 x 5/16 x 11-27/32	5/8 x 5/16 x 3-1/2	24.2	14.2

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT7E	247683	1.0	247682	5

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

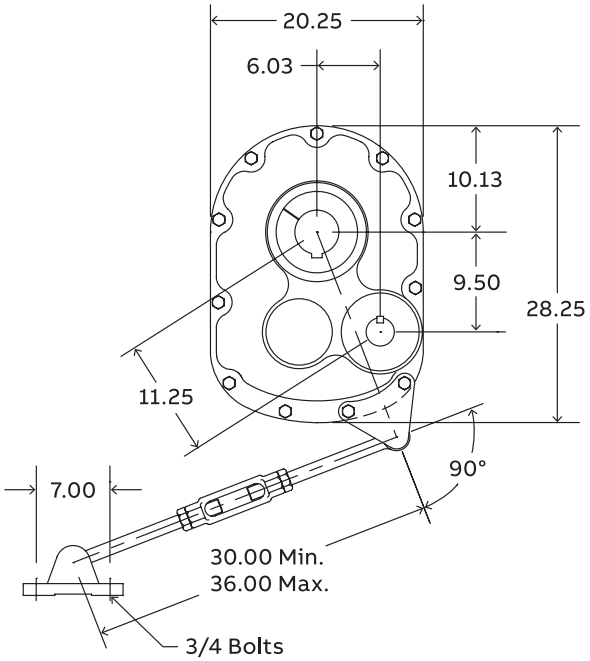
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT7E	020576	6	TXTShaftGuard-07	11

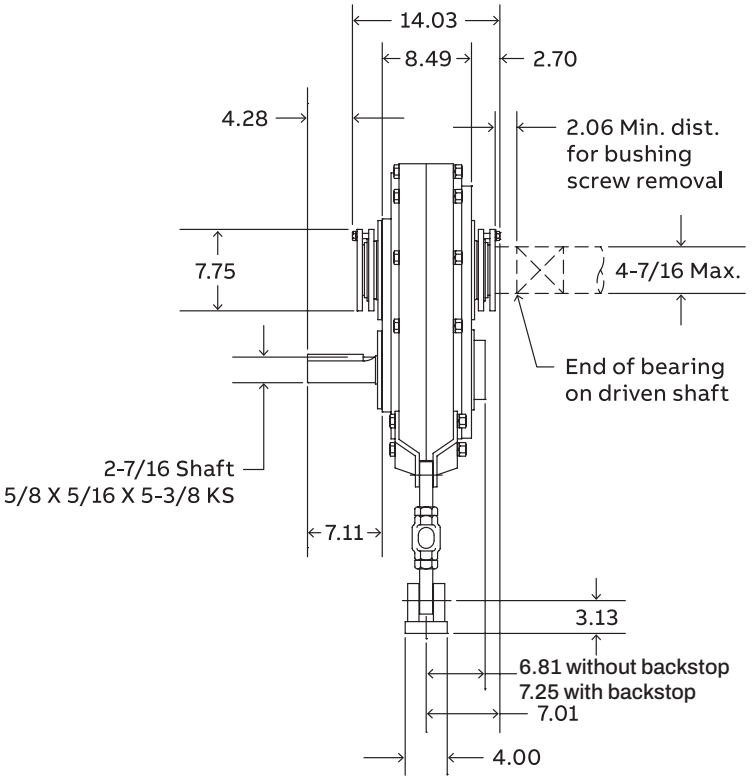
Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

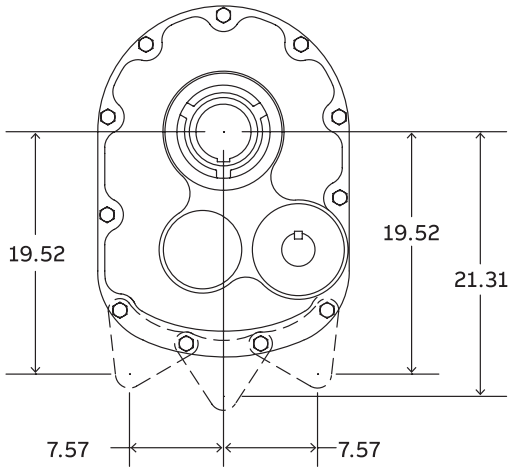
TXT8E

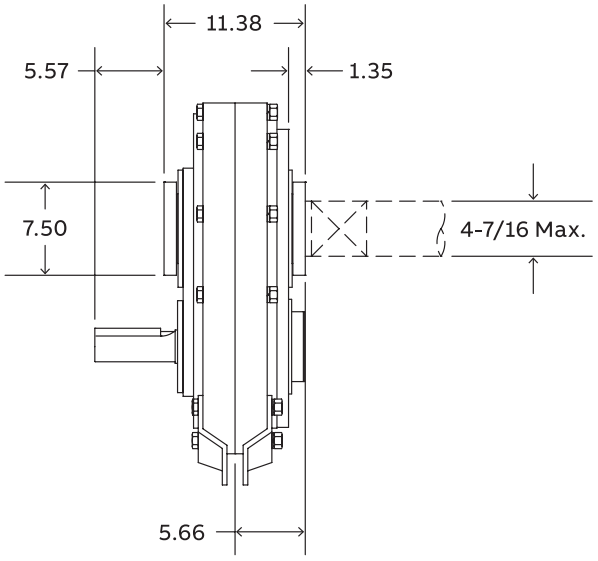
Double-reduction taper-bushed





Double-reduction straight bore





All dimensions are in inches.

TXT8E

Double-reduction taper-bushed

TXT8E taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT809ET	E248278	407D09	9.00	633
TXT815ET	E248279	407D15	15.08	633
TXT825ET	E248280	407D25	24.62	633

TXT8E straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT809ES	E248282 ♣	407D09	9.00	633
TXT815ES	E248283 ♣	407D15	15.08	633
TXT825ES	E248284	407D25	24.62	633

Accessories for TXT8E reducers

Description	Part number	Weight (lb)
TXT8E Backstop assembly	907102	3.8
TXT8 Cooling fan assembly *	272327	9.0
TA8 Standard motor mount (213T—365T)	248401	119.0
TXT8D TA reducer belt guard (213T—365T)	248395	107.0
TAB8 Bottom motor mount (213T—365T) ♠ ♣	248406	120.0
TXT5—TXT9 Hydra-Lock desiccant breather Kit HL1	964364	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 8 RELIABILITY KIT	TXT8RELKIT	24.3
TXT 7—10 Immersion heater	241105	2.0
TXT8 Lube kit	LUBEKITTXT8	40.5
3/4 Sight oil level gauge (TXT7—TDT15)	430159	1.0
1/2—3/4 Sight oil level tube (TXT5—TDT15)	900110	2.0
TXT8 Taconite auxiliary seal kit ♥	272452	26.3

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

TXT8 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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	—
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

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT8E	248716	1.0	248706	5

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

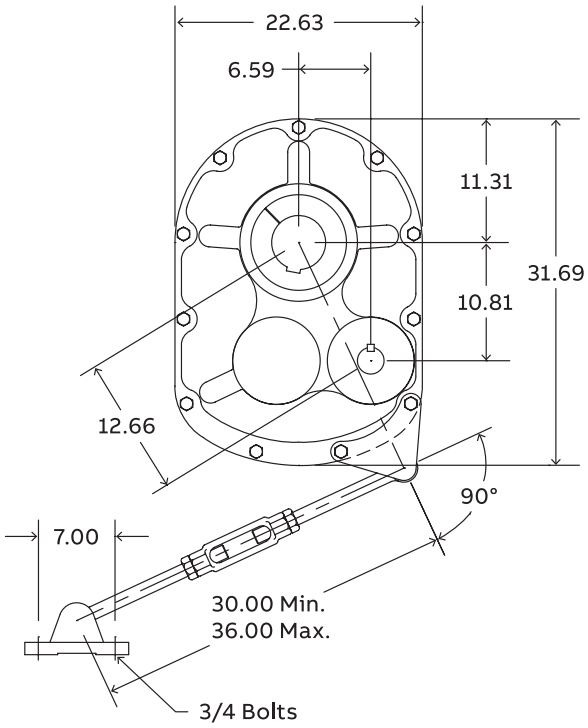
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT8E	020577	6	TXTShaftGuard-08	11

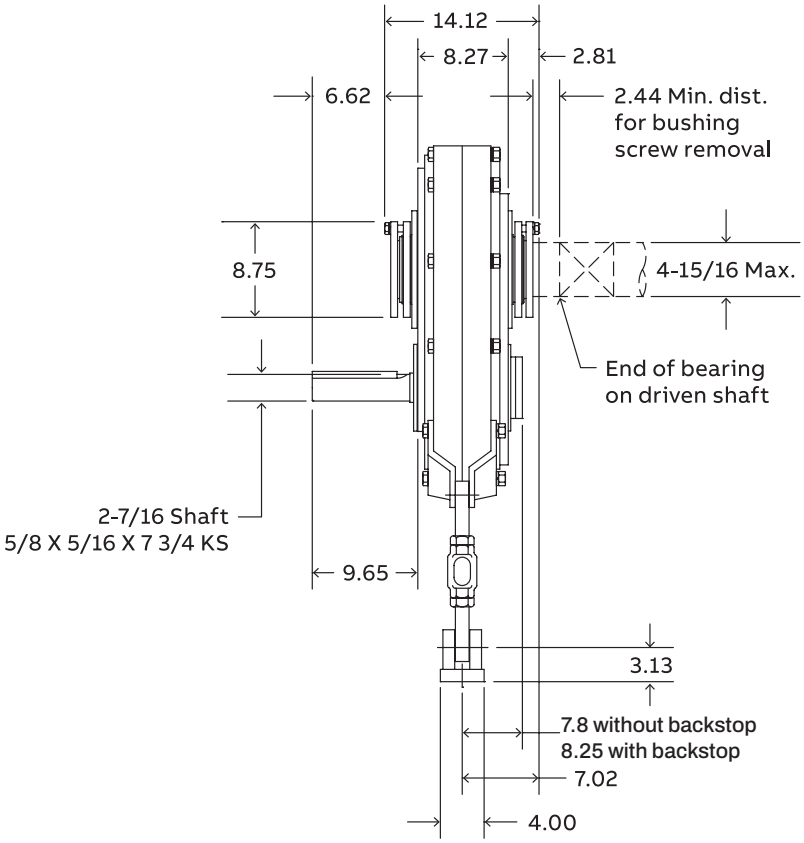
Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

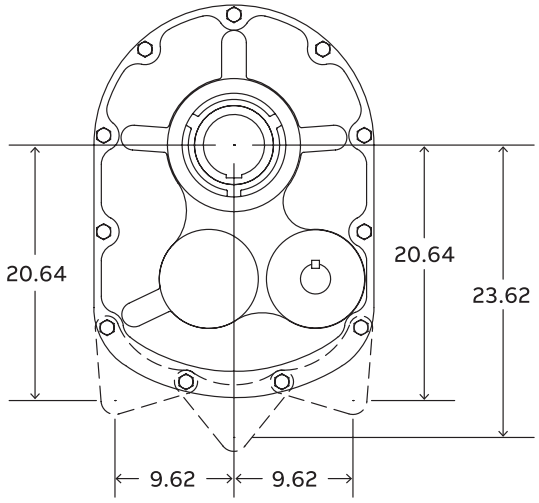
TXT9E

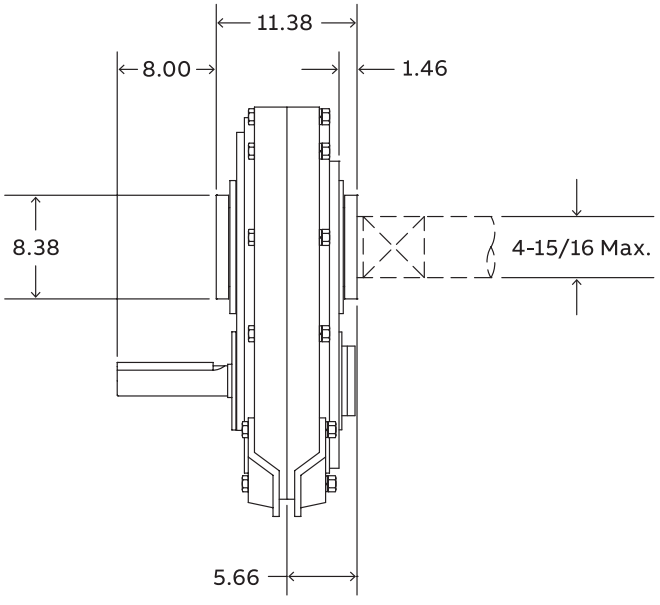
Double-reduction taper-bushed





Double-reduction straight bore





All dimensions are in inches.

TXT9E

Double-reduction taper-bushed

TXT9E taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT909ET	E249268	415D09	9.02	760
TXT915ET	E249269	415D15	15.12	760
TXT926ET	E249270	415D26	25.66	760

TXT9E straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT909ES	E249272 ♣	415D09	9.02	760
TXT915ES	E249273 ♣	415D15	15.12	760
TXT926ES	E249274	415D26	25.66	760

Accessories for TXT9E reducers

Description	Part number	Weight (lb)
TXT9E Backstop assembly	907102	3.8
TXT9 Cooling fan assembly *	272328	15.0
TA9 Standard motor mount (213T—365T)	249401	120.0
TXT9D TA reducer belt guard (213T—365T)	249395	125.5
TA9 Special motor mount (404T—405T) ♣ ♠	249399	125.5
TAB9 Bottom motor mount (213T—365T) ♠ ♣	249404	125.5
TXT5—TXT9 Hydra-Lock desiccant breather Kit HL1	964364	2.0
TXT1—TXT9 OPTIFY Breather OB1	750020	2.0
TXT Enclosed breather system sm (1—10)	240050	0.0
OPTIFY Performance Sensor	820000	0.5
TXT 9 RELIABILITY KIT	TXT9RELKIT	24.3
TXT 7—10 Immersion heater	241105	0.0
TXT9 Lube kit	LUBEKITTXT9	3.2
3/4 Sight oil level gauge (TXT7—TDT15)	430159	1.0
1/2—3/4 Sight oil level tube (TXT5—TDT15)	900110	2.0
TXT9 Taconite auxiliary seal kit ♥	272453	6.0

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

TXT9 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT9E	249717	1.0	249716	6

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

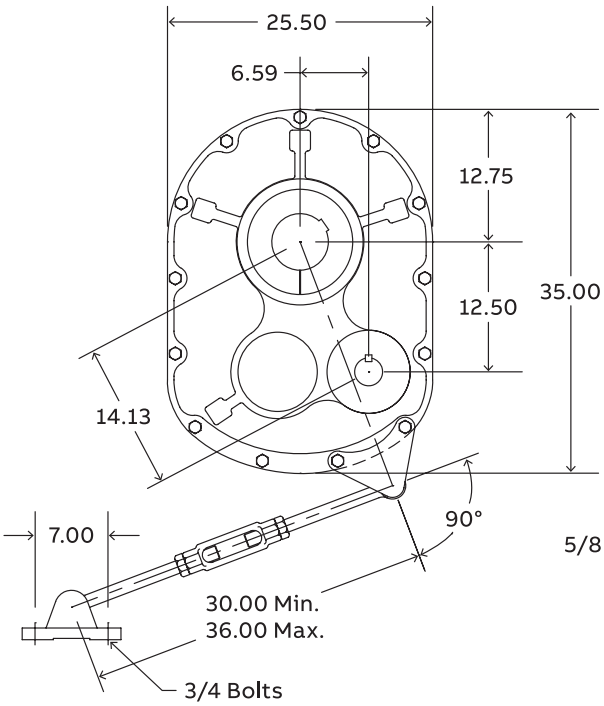
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT9E	020578	6	TXTShaftGuard-09	13

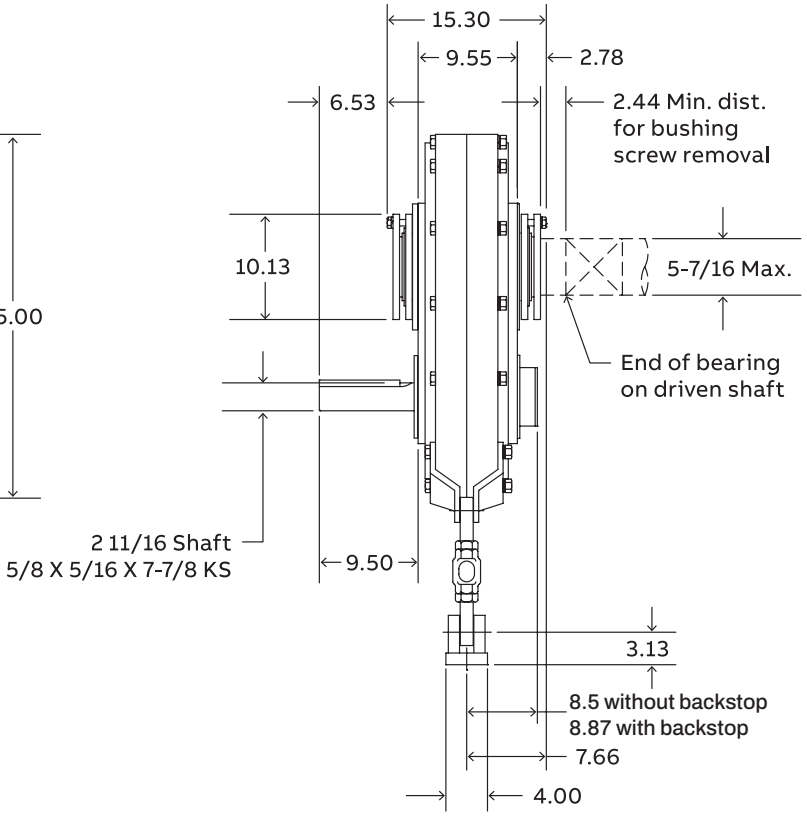
Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

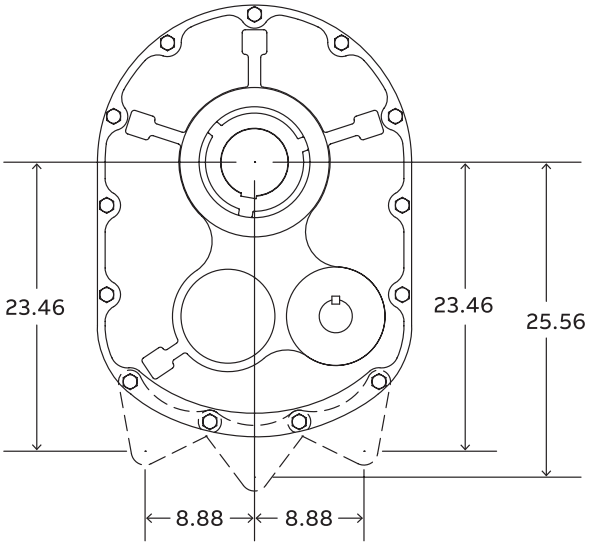
TXT10E

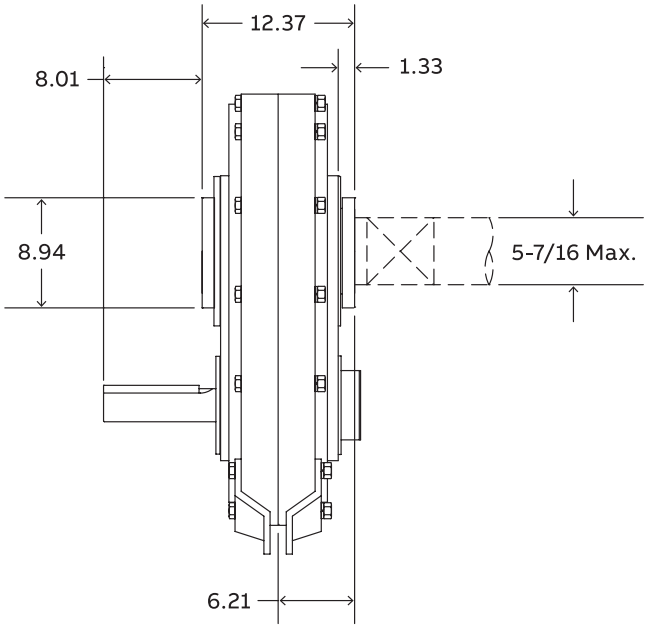
Double-reduction taper-bushed





Double-reduction straight bore





All dimensions are in inches.

TXT10E

Double-reduction taper-bushed

TXT10E taper-bushed reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT1015ET	E272600	507D15	15.16	1020
TXT1024ET	E272601	507D24	24.30	1020

TXT10E straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT1015ES	E272604 ♣	507D15	15.16	1020
TXT1024ES	E272605 ♣	507D24	24.30	1020

Accessories for TXT10E reducers

Description	Part number	Weight (lb)
TXT10E Backstop assembly	272869	60.0
TXT10 Cooling fan assembly *	272329	15.0
TA10 Standard motor mount (254T—365T)	250401	130.0
TXT10D TA reducer belt guard (254T—445T)	250395	140.0
TA10 Special motor mount (404T—445T)	250404	150.0
TAB10 Bottom motor mount (254T—365T) ♠ ♣	250411	150.0
Hydra-Lock – TXT10—TXT12 = size HL-2	964366	4.0
TXT10—TDT15 OPTIFY Breather OB4	750021	4.0
TXT Enclosed breather system sm (1—10)	240050	2.0
OPTIFY Performance Sensor	820000	0.5
TXT 10 RELIABILITY KIT	TXT10RELKIT	24.3
TXT 7—10 Immersion heater	241105	3.0
TXT10 Lube kit	LUBEKITTXT10	1.0
3/4 Sight oil level gauge (TXT7—TDT15)	430159	1.0
1/2—3/4 Sight oil level tube (TXT5—TDT15)	900110	2.0
TXT10 Taconite auxiliary seal kit ♥	272454	80.0

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

TXT10 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight (lb)	
		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	44.00	33.00

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT10E	272867	1.0	272866	6

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

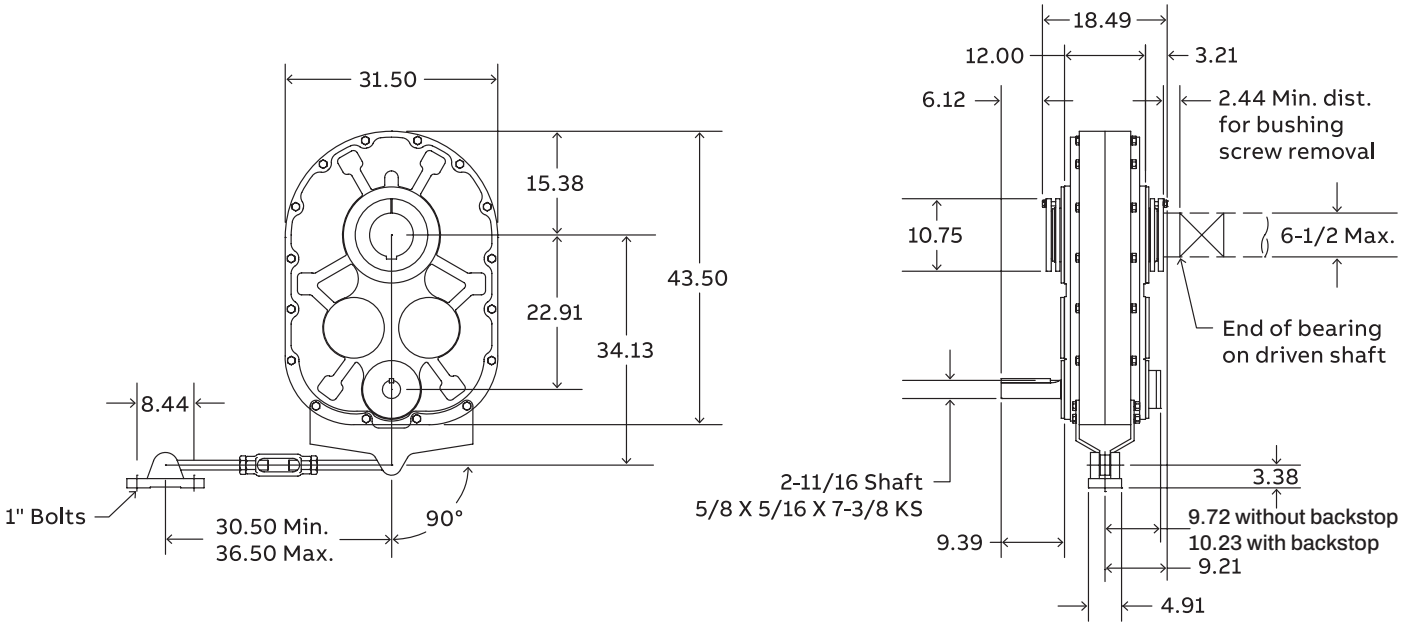
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT10E	020579	7	TXTShaftGuard-10	13

Kits include adapter and extension for that size reducer.

♣ 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
♠ Standard belt guards will not fit this motor mount
■ See pages G3-160 and G3-161 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 G3-163 and G3-164 for drill and tap information required to mount to reducer

TXT12E

Double-reduction taper-bushed



All dimensions are in inches.

TXT12E taper-bushed reducers ▯

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TXT1215ETV	E272615 ♣	608D15	14.89	2042
TXT1225ETV	E272617	608D25	24.65	2042

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
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

Accessories for TXT12E reducers

Description	Part number	Weight (lb)
TXT12E Backstop assembly	272869	5.6
TXT12 Cooling fan assembly *	272330	15.0
Heat exchanger cooling package	273933	55.9
TA12 Standard motor mount (286T—445T)	272310	255.5
TXT12D TA reducer belt guard (320T—445T) ♣	272688	170.0
TXT10—TDT15 Hydra-Lock desiccant breather Kit HL-2	964366	4.0
TXT10—TDT15 OPTIFY Breather OB4	750021	4.0
OPTIFY Performance Sensor	820000	0.5
TXT 12 RELIABILITY KIT	TXT12RELKIT	24.3
TXT Enclosed breather system lg (12—15)	240051	2.0
TXT12 Lube kit	LUBEKITTXT12	202.5
3/4 Sight oil level gauge (TXT7—TDT15)	430159	1.0
1/2—3/4 Sight oil level tube (TXT5—TDT15)	900110	2.0
TXT12 Taconite auxiliary seal kit	272455	67.2

* When a cooling fan is used with a closed bushing cover, the cover may require modification for clearance

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight (lb)	Split cover/adapter*	Weight (lb)
TXT12E	272887	1.0	272886	6

TXT-E is drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit both the outboard and inboard side of the TXT-E reducer.

Shaft guard and kits

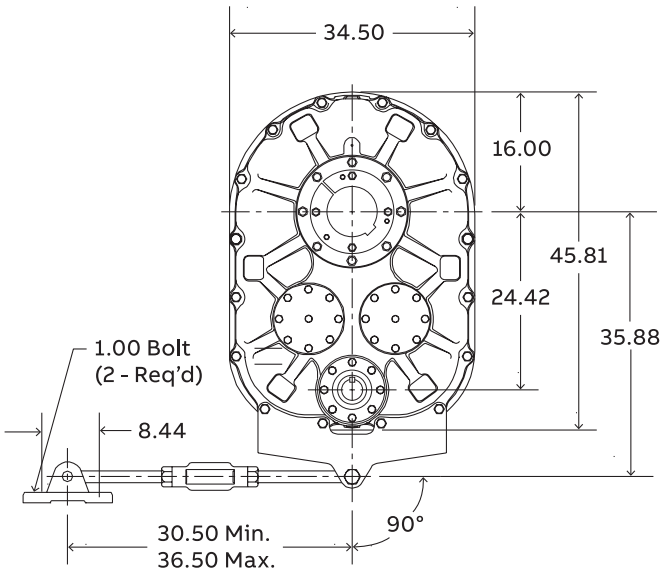
Reducer size	Guard	Weight (lb)	Kit	Weight (lb)
TXT12E	020579	7	TXTShaftGuard-12	13

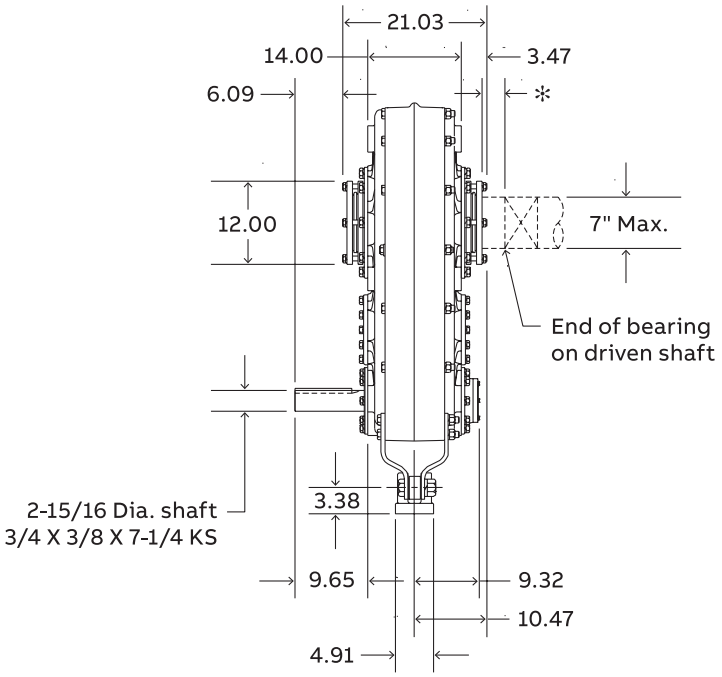
Kits include adapter and extension for that size reducer.

♣ 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 G3-161 for Flange mounting dimensions

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 (lb)
TDT1325T	272250	700D25	24.73	2476

Accessories for TDT13 reducers

Description	Part number	Weight (lb)
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
TXT10—TDT15 Hydra-Lock desiccant breather Kit HL-2	964366	4.0
TXT10—TDT15 OPTIFY Breather OB4	750021	4.0
TXT Enclosed breather system lg (12—15)	240051	2.0
3/4 Sight oil level gauge (TXT7—TDT15)	430159	1.0
1/2—3/4 Sight oil level tube (TXT5—TDT15)	900110	2.0
TDT13 Lube kit	LUBEKITTXT13	223.8
OPTIFY Performance Sensor	820000	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

All dimensions are in inches.

♣ Made to order

† Shaft key furnished

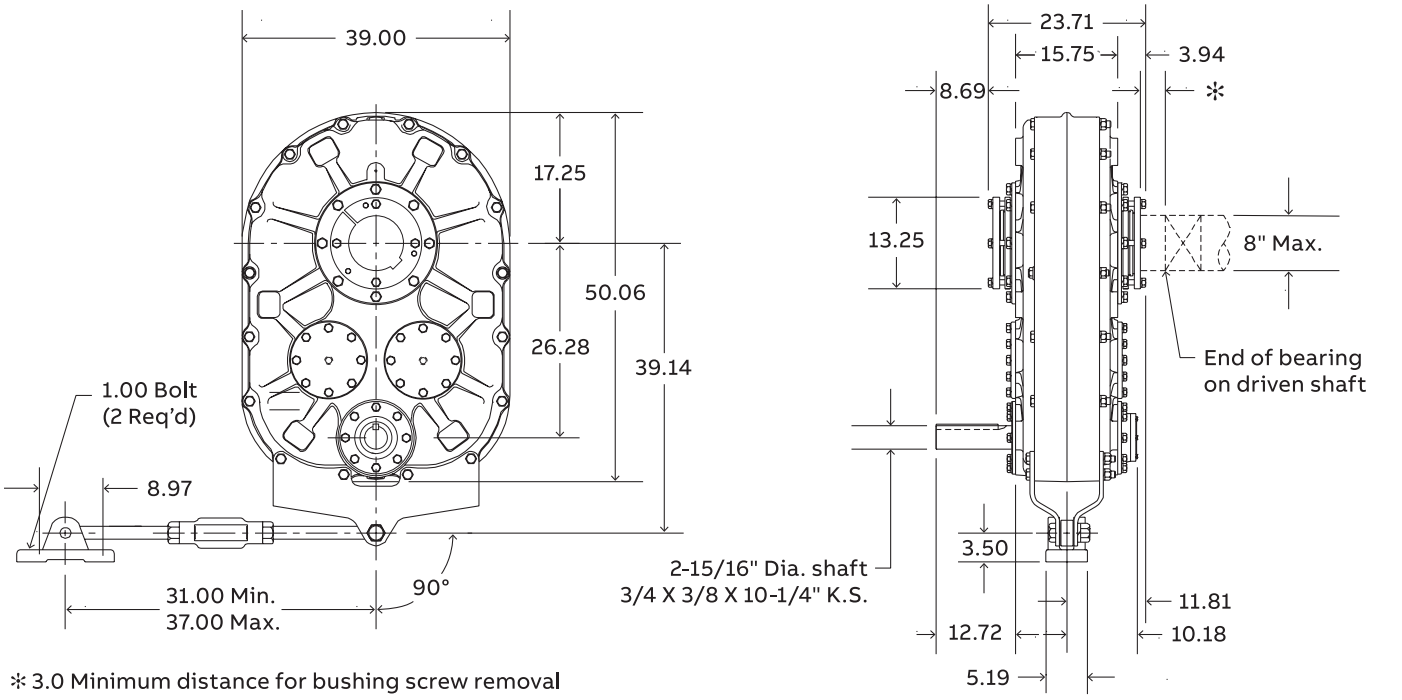
▲ Check the driven shaft and key for strength

● Taper-bushed reducers require bushing for all bore sizes

□ Reducers are supplied already drilled and tapped for vertical mounting and flange mounting. See pages G3-161 for Flange mounting dimensions

TDT14

Double-reduction taper-bushed



✻ 3.0 Minimum distance for bushing screw removal

All dimensions are in inches.

TDT14 taper-bushed reducers □

Reducer size	Part number	AGMA code	Actual ratio	Weight (lb)
TDT1425T	272150 ♣	800D25	24.80	3436

Accessories for TDT14 reducers

Description	Part number	Weight (lb)
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
TXT10—TDT15 Hydra-Lock desiccant breather Kit HL-2	964366	4.0
TXT10—TDT15 OPTIFY Breather OB4	750021	4.0
TXT Enclosed breather system lg (12—15)	240051	2.0
3/4 Sight oil level gauge (TXT7—TDT15)	430159	1.0
1/2—3/4 Sight oil level tube (TXT5—TDT15)	900110	2.0
TDT14 Lube kit	LUBEKITTXT14	307.8
OPTIFY Performance Sensor	820000	0.5

TDT14 bushing assemblies ●

Stock bore size		Part number	Shaft keyseat required †	Weight (lb)
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

All dimensions are in inches.

♣ Made to order

† Shaft key furnished

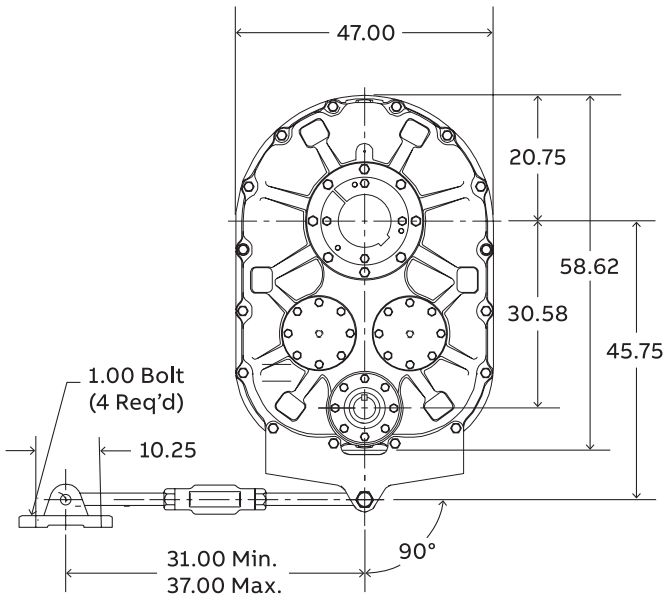
▲ Check the driven shaft and key for strength

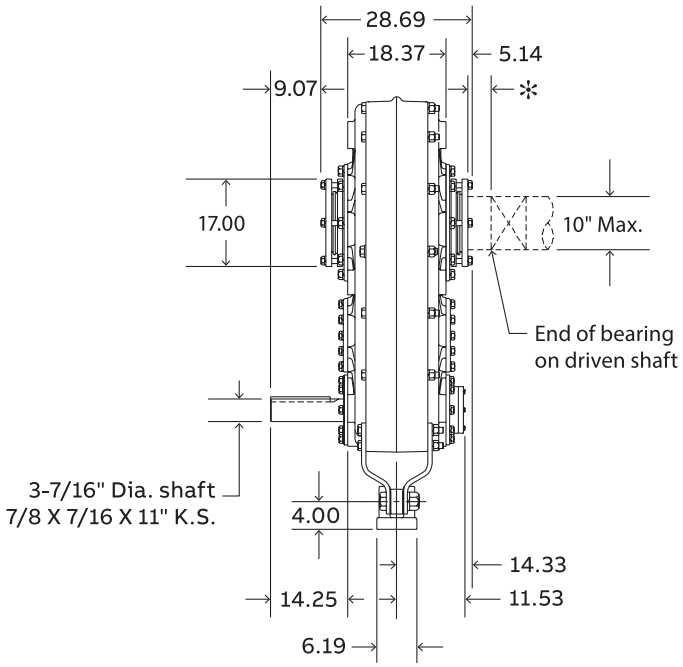
● Taper-bushed reducers require bushing for all bore sizes

□ Reducers are supplied already drilled and tapped for vertical mounting and flange mounting. See pages G3-161 for Flange mounting dimensions

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 (lb)
TDT1530T	272370 ♣	1000D30	30.64	5622

Accessories for TDT15 reducers

Description	Part number	Weight (lb)
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
TXT10—TDT15 Hydra-Lock desiccant breather Kit HL-2	964366	4.0
TXT10—TDT15 OPTIFY Breather OB4	750021	4.0
TXT Enclosed breather system lg (12—15)	240051	2.0
3/4 Sight oil level gauge (TXT7—TDT15)	430159	1.0
1/2—3/4 Sight oil level tube (TXT5—TDT15)	900110	2.0
TDT15 Lube kit	LUBEKITTXT15	575.1
OPTIFY Performance Sensor	820000	0.5

TDT15 bushing assemblies ●

Stock bore size		Part number	Shaft keyseat required †	Weight (lb)
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	▲	272398 ♣	2 x 3/4 x 27-5/16	307

All dimensions are in inches.

♣ 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 G3-161 for Flange mounting dimensions

Accessories
TXT

Table 5 - TXT reducers and accessories compatibility

TXT reducer	Maximum bore (in)	AGMA code	Input hp at 75 rpm output 15,25:1	Input hp at 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 - SCXT and accessories compatibility

SCXT reducer	AGMA code	Input hp at 75 rpm output 15,25:1	Input hp at 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

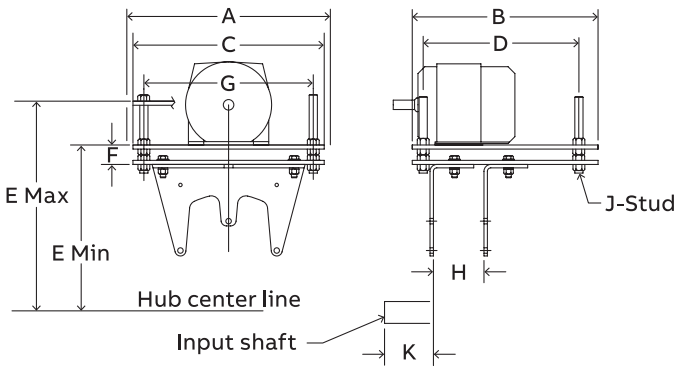
Table 7 - NEMA motor information (1,750 rpm)

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 TA 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

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 TA 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.

Comes standard with zinc-plated finish.

Bolt hole configuration will also allow this mount to fasten to the top of a screw conveyor drive reducer of equivalent size.

TA motor mounts - TA1M—TA7M

Motor mount no. ■	Part number ●	Weight (lb)	Reducer size	NEMA motor frame	A	B	C	D	E ◆		G	H	J	K
									Min	Max				
TA1M	241391	37	TXT1	56T—215T	14.63	11.00	13.50	9.25	10.03	14.18	12.00	3.38	5/8 x 7	3.88
			TXT2						10.59	14.75				4.18
TA3M	243391	40	TXT3	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	TXT4	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	TXT5	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	TXT6	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	TXT7	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—TA7M TA motor mounts

Motor mount no.	Reducer size	Center distances for various NEMA motor frames															
		56T		143T and 145T		182T and 184T		213T and 215T		254T and 256T		284T and 286T		324T and 326T		364T and 365T	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
TA1M	TXT1	17.6	21.0	17.6	21.0	18.5	22.0	19.3	22.7	—	—	—	—	—	—	—	—
	TXT2	18.7	22.1	18.7	22.1	19.7	23.1	20.5	23.9	—	—	—	—	—	—	—	—
TA3M	TXT3	20.2	23.6	20.2	23.6	21.2	24.6	22.0	25.3	23.0	26.3	—	—	—	—	—	—
TA4M	TXT4	—	—	21.2	25.2	22.2	26.2	23.0	26.9	23.9	27.9	24.7	28.7	—	—	—	—
TA5M	TXT5	—	—	22.7	26.6	23.7	27.6	24.4	28.4	25.4	29.4	26.2	30.1	27.2	31.1	—	—
TA6M	TXT6	—	—	25.9	29.7	26.9	30.7	27.6	31.4	28.6	32.4	29.4	33.2	30.4	34.2	—	—
TA7M	TXT7	—	—	30.6	34.4	31.6	35.4	32.4	36.2	33.4	37.2	34.1	37.9	35.1	38.9	36.1	40.0

♣ Made to order

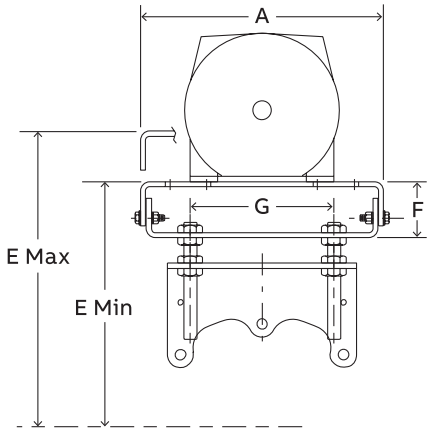
▲ Made to order belt guards required for these motor mounts. Consult Dodge Application Engineering at +1 864 284 5700

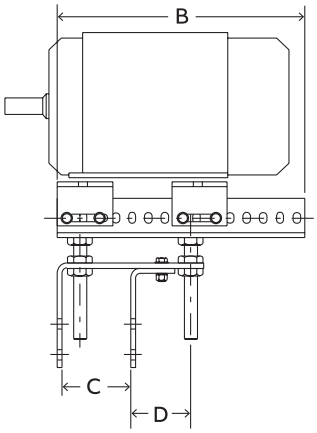
◆ Provides for V-belt adjustment

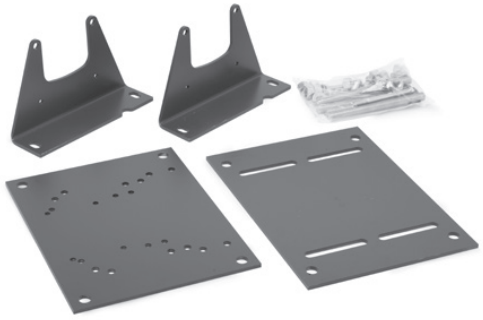
■ Can be used with any ratio TA reducer (5, 9, 15, 25)

● Necessary mounting bolts are included

Motor mounts







TA motor mounts - TA8—TA15

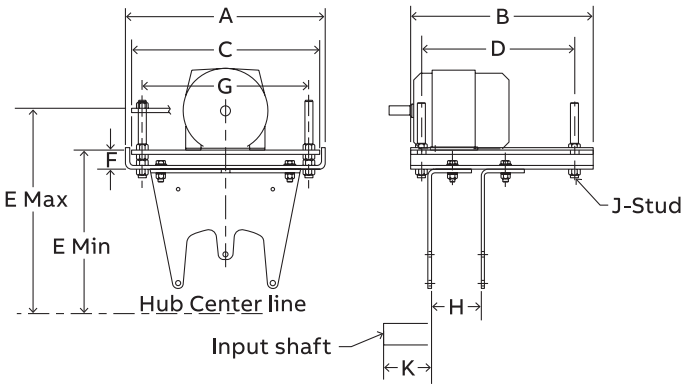
Motor mount number	Part number ●	Weight (lb)	Reducer size	Nominal ratio	NEMA motor frame	A	B	C	D	E ◆ Min	E ◆ Max	F	G
TA8	248401 ■	119	TXT8	15, 25	213T—365T	18.63	19	5.25	4.36	19.4	23.9	4.25	11
				5	254T—365T								
TA9	249401 ■	120	TXT9	15, 26	213T—365T	18.63	19	5.25	4.63	21.46	25.9	4.25	11
				5	284T—365T								
	249399 ♣ ▲	125		15, 26	404T—445T	25.06	24			20.21	24.71	3.81	
TA10	250401	130	TXT10	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	33	12.63	5.75	33.5	39	3.81	18.5

V-belt drive center distances for TA8—TA15 TA motor mounts

Motor mount number	Reducer size	Nominal ratio	Center distances for various NEMA motor frames													
			213T and 215T		254T and 256T		284T and 286T		324T and 326T		364T and 365T		404T and 405T		444T,445T,447T, or 449T	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
TA8	TXT8	15, 25	35.5	40.5	36.4	41.2	37.2	42.2	38.2	43.2	39.2	44.2	—	—	—	—
		5	—	—	37.2	41.5	37.9	42.3	38.9	43.3	39.9	44.3	—	—	—	—
TA9	TXT9	15, 26	38.0	43.0	39.0	44.0	39.8	44.7	40.7	45.7	41.7	46.7	42.8	47.7	—	—
		5	—	—	—	—	40.5	44.8	41.5	45.8	42.5	46.8	43.5	47.8	—	—
TA10	TXT10	15, 24	—	—	42.6	47.5	43.3	48.2	44.3	49.2	45.3	50.2	45.8	50.7	47.3	51.7
TA12	TXT12	15, 25	—	—	—	—	57.0	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 TA reducer (5, 9, 15, 25)
● Necessary mounting bolts are included

Motor mounts



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 TA 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.

Comes standard with zinc-plated finish.

Bolt hole configuration will also allow this mount to fasten to the top of a screw conveyor drive reducer of equivalent size.

TA long motor mounts - TA3ML—TA7ML ▲†

Motor mount no. ■	Part number ●	Weight (lb)	Reducer size	NEMA motor frame	A	B	C	D	E ◆		F	G	H	J	K
									Min	Max					
TA3ML	243392 ♣	42	TXT3	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	TXT4	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	TXT5	143T—286T	18.63	17.00	17.50	14.25	19.28	24.03	1.84	15.50	4.13	3/4 x 8	6.65
TA6ML	246390	102	TXT6	143T—326T	20.50	18.50	19.25	16.50	28.56	33.30	1.84	17.50	4.50	3/4 x 8	7.31
TA7ML	247396 ♣	115	TXT7	143T—326T	22.50	19.00	21.25	16.50	32.46	37.20	1.84	19.25	4.75	3/4 x 8	7.81

V-belt drive center distances for TA3ML—TA7ML TA long motor mounts

Motor mount no.	Reducer size	Center distances for various NEMA motor frames													
		56T		143T and 145T		182T and 184T		213T and 215T		254T and 256T		284T and 286T		324T and 326T	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
TA3ML	TXT3	23.1	26.5	23.1	26.5	24.1	27.5	24.9	28.3	—	—	—	—	—	—
TA4ML	TXT4	—	—	25.6	30.6	26.7	30.6	27.4	31.4	28.3	32.4	29.2	33.1	—	—
TA5ML	TXT5	—	—	29.4	33.4	30.4	34.3	31.1	35.1	32.1	36.1	32.9	36.8	—	—
TA6ML	TXT6	—	—	—	—	40.8	44.6	41.6	45.4	42.6	46.4	43.3	47.1	44.3	48.1
TA7ML	TXT7	—	—	—	—	47.0	50.8	47.7	51.5	48.7	52.5	49.5	53.3	50.5	54.3

Clearance dimensions ■

Reducer	Motor mount	Clearance dimensions (1)
TXT1	TA1M	7.63
TXT2	TA1M	8.25
TXT3	TA3M	9.25
TXT4	TA4M	9.44
TXT5	TA5M	10.00
TXT6	TA6M	11.97
TXT7	TA7M	14.38

Clearance dimensions ■

Reducer	Motor mount	Clearance dimensions (1)
TXT3	TA3ML	12.25
TXT4	TA4ML	13.94
TXT5	TA5ML	16.75
TXT6	TA6ML	25.96
TXT7	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 Application Engineering at +1 864 284 5700

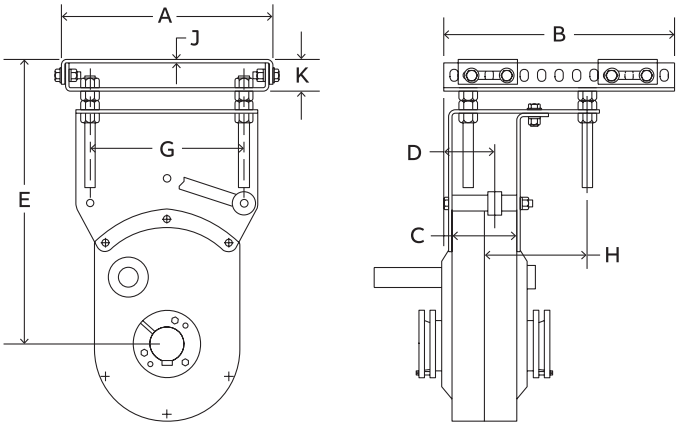
◆ Provides for V-belt adjustment

■ Can be used with any ratio TA 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

Motor mounts



TAB bottom motor mounts

For applications where space constraints do not allow a TA motor mount to be mounted from the top end of the reducer with our standard TA 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 TA housing and also serves as a support member for the TA tie 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.

TA bottom motor mounts - TAB 1—TAB 10 ▲

Motor mount no.	Part number ●	Weight (lb)	Reducer size	Nominal ratio	NEMA motor frame	A	B	C	D	E ◆		G	H	J	K
										Min	Max				
TAB1	241421 ♣	40	TXT1	5, 9, 15, 25	56T—215T	12-1/8	11-1/2	3-3/8	2-43/64	14-17/64	17-61/64	8	5-25/32	1/4	2-3/8
TAB2	242421 ♣	45	TXT2	5, 9, 15, 25	56T—215T	12-1/8	11-1/2	3-3/8	2-43/64	14-29/32	18-19/32	8	5-25/32	1/4	2-3/8
TAB3	243404 ♣	60	TXT3	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	TXT4	5, 9, 15, 25	143T—145T	15-1/8	16-1/2	4-5/8	5-13/32	20-13/32	25-1/32	11	5-1/32	1/4	2-3/8
					182T—326T				3-21/32						
TAB5	245405	70	TXT5	5, 9, 15, 25	143T—145T	15-1/8	16-1/2	4-1/8	5-21/64	21-15/32	26-3/32	11	5-17/32	1/4	2-3/8
					182T—326T				3-37/64						
TAB6	246392	75	TXT6	5, 9, 15, 25	182T—215T	15-1/8	16-1/2	4-1/2	5-5/32	24-1/4	28-13/16	11	5-17/16	1/4	2-3/8
					254T—326T				3-13/32						
TAB7	247404 ♣	85	TXT7	5, 9, 15, 25	182T—215T	15-1/8	16-1/2	4-3/4	5-1/2	27-3/4	32-1/4	11	5-1/8	1/4	2-3/8
					254T—326T				3-3/4						
TAB8	248406 ♣	90	TXT8	5, 15, 25	213T—256T	18-5/8	19	5-1/4	3-5/8	33-13/32	37-25/32	11	4-5/8	3/8	4-1/4
					284T—365T				3-7/8						
TAB9	249404 ♣	95	TXT9	5, 15, 26	213T—256T	18-5/8	19	5-1/4	5-5/8	34-29/32	39-9/32	11	4-5/8	3/8	4-1/4
					284T—365T				3-7/8						
TAB10	250411 ♣	105	TXT10	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 TA bottom motor mounts

Motor mount no.	Reducer size	Nominal ratio	Center distances for various NEMA motor frames															
			56T		143T and 145T		182T and 184T		213T and 215T		254T and 256T		284T and 286T		324T and 326T		364T and 365T	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
TAB1	TXT1	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	TXT2	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	TXT3	9, 15, 25	18.70	23.30	18.70	23.30	19.70	24.30	20.50	25.10	—	—	—	—	—	—	—	—
	TXT305	5	—	—	19.50	24.10	20.20	24.80	21.20	25.80	—	—	—	—	—	—	—	—
TAB4	TXT4	9, 15, 25	19.30	23.90	19.30	23.90	20.30	24.90	21.10	25.70	22.10	26.60	—	—	—	—	—	—
	TX405	5	—	—	20.00	24.70	20.80	25.40	21.80	26.40	22.50	27.20	—	—	—	—	—	—
TAB5	TXT5	9, 15, 25	—	—	19.50	24.10	20.50	25.10	21.30	25.90	22.30	26.90	23.00	27.60	—	—	—	—
	TXT505	5	—	—	—	—	20.90	25.50	21.90	26.50	22.60	27.20	23.60	28.20	—	—	—	—
TAB6	TXT6	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	TXT7	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	TXT8	15, 25	—	—	—	—	—	—	29.50	33.80	30.50	34.80	31.20	35.60	32.20	36.50	33.20	37.50
TAB9	TXT9	15, 26	—	—	—	—	—	—	29.90	34.10	30.80	35.10	31.60	35.90	32.50	36.80	33.50	37.80
TAB10	TXT10	15, 24	—	—	—	—	—	—	—	—	32.00	37.00	32.80	38.00	33.70	39.00	34.70	40.00

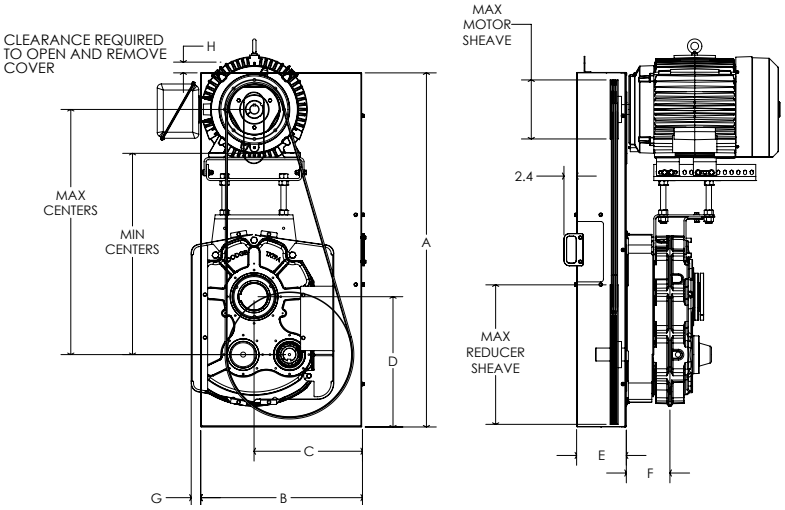
♣ Made to order
▲ Made to order belt guards required for these motor mounts. Consult Dodge
◆ Provides for V-belt adjustment
● Necessary mounting bolts are included

Belt guards



Slotted metal panel belt guard

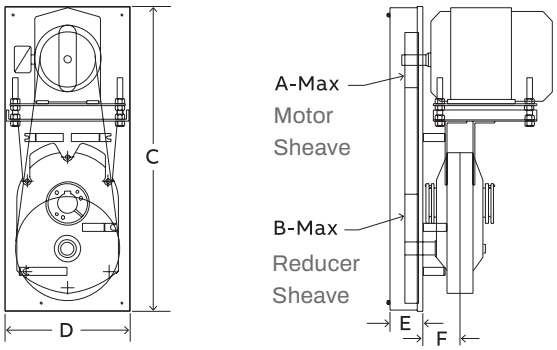
Belt guards with mounting straps for TXT reducers will fit standard TA motor mounts. The belt guards are designed to fit most common sheave diameters. They mount easily with no machining required.



Belt guards for double-reduction TXT reducers (9, 15, 25:1) with standard motor mounts ■

Reducer size	Part number	Center distance		Max motor sheave	Max reducer sheave	A	B	C	D	E	F	G	H
		Min	Max										
TXT1E	241395	17.6	22.1	6	13	35.6	16.3	9.9	11.9	4.28	3.56	0.00	2.00
TXT2E	242395	18.7	23.3	6	12	35.6	16.3	9.8	11.8	4.28	3.56	0.00	2.00
TXT3E	243387▲	20.2	25.7	7	13	39.1	18.3	10.3	11.9	4.28	3.94	0.00	2.00
TXT4E	244395	21.7	28.4	7	15	43.1	18.3	11.5	13.9	5.65	5.75	0.00	2.00
TXT5E	245387▲	22.7	29.5	7	14	45.0	18.3	11.2	16.9	5.65	6.06	0.00	2.00
TXT6E	246366	26.8	33.3	9	18	50.1	21.8	14.2	18.0	6.27	6.25	0.18	2.00
TXT7E	247390	31.8	38.9	9	16	56.0	24.7	14.4	19.8	6.27	6.94	0.00	2.00
TXT8E*	248395	37.6	42.8	11	26	66.1	30.3	20.2	24.3	9.34	8.00	0.07	2.00
TXT9E*	249395 ▲	38.9	46.6	11	25	66.1	30.3	20.3	24.3	9.27	7.75	1.62	2.00
TXT10E*	250395	43.2	49.1	15	24	73.2	32.1	20.0	27.6	8.40	8.65	0.63	2.00
TXT12E*	272688 ♣	57.0	64.9	15	26	91.1	34.3	17.1	37.3	9.80	9.45	0.00	2.00

*** This size has a belt access panel**



Belt guards for single-reduction TXT reducers (5:1) with standard motor mounts ■

Reducer size	Belt guard size	Part number	Motor mount number	Weight (lb)	NEMA motor frame	Center distance		A	B	C	D	E	F
						Min	Max						
TXT105	TXT1S	241397	TA1M	30	56T—215T	17.6	22.7	5.0	12.0	32.0	13.0	3.50	3.63
TXT205	TXT2S	242397	TA1M	36	56T—215T	18.7	23.9	6.0	13.0	34.0	15.0	4.00	3.50
TXT305	TXT3S	243389 ▲	TA3M	43	56T—215T	20.2	25.3	7.0	15.0	37.0	17.0	4.00	3.94
TXT405	TXT4S	244397	TA4M	54	143T—286T	21.2	28.7	8.0	16.0	43.0	18.0	4.50	5.19
TXT505	TXT5S	245389 ▲	TA5M	59	143T—286T	22.7	30.2	8.0	16.0	45.0	18.0	5.25	5.13
TXT605	TXT6S	246368	TA6M	95	143T—326T	25.9	34.2	10.0	18.0	50.0	20.0	6.00	6.06
TXT705	TXT7S	247392	TA7M	112	143T—365T	30.6	40.0	10.0	25.0	58.0	27.0	6.00	6.88

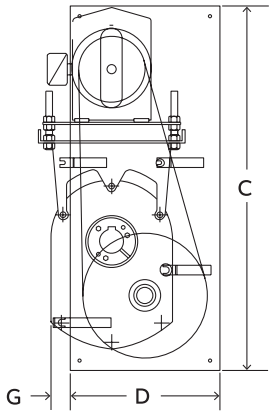
♣ Made to order

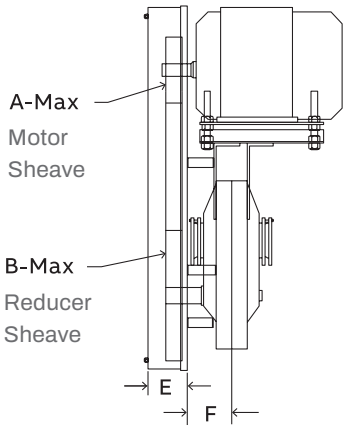
▲ These belt guards do not fit the larger frame, higher hp TA motor mounts on pages G3-61 and G3-62.

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

Belt guards

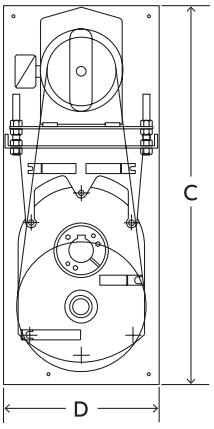
Long motor mounts

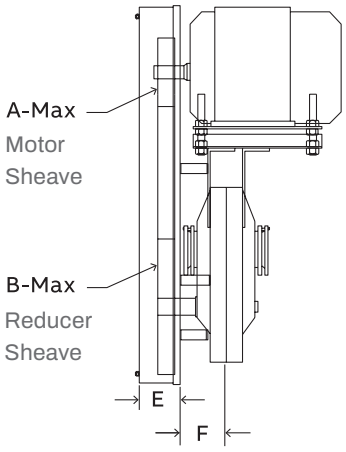




Belt guards for double-reduction TXT reducers (9, 15, 25:1) with long motor mounts

Reducer size	Belt guard size	Part number	Motor mount number	Weight (lb)	NEMA motor frame	Center distance		A	B	C	D	E	F	G
						Min	Max							
TXT3	TXT3DLMM	243153 ▲ ♣	TA3ML	52	56T—215T	23.1	28.3	7	14	40	17	4	3.94	—
TXT4	TXT4DLMM	244151 ♣	TA4ML	65	143T—286T	25.6	33.1	7	15	47.5	18	4.5	5.19	—
TXT5	TXT5DLMM	245102 ▲ ♣	TA5ML	90	143T—286T	29.4	36.8	7	15	51.7	18	4.25	5.13	0.625
TXT6	TXT6DLMM	246147	TA6ML	100	143T—326T	39.8	48.1	8	18	64	20	6	6.06	1.63
TXT7	TXT7DLMM	247152 ♣	TA7ML	108	143T—365T	46	55.3	10	20	71.5	23	6	6.88	0.5





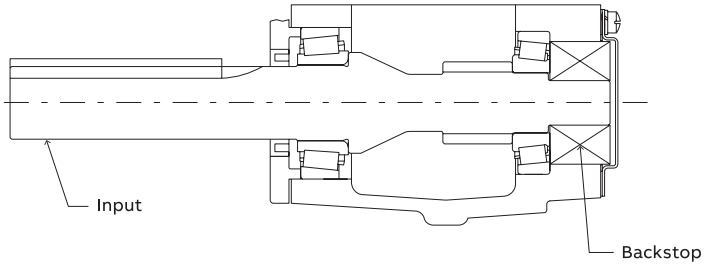
Belt guards for single-reduction TXT reducers (5:1) with long motor mounts

Reducer size	Belt guard size	Part number	Motor mount number	Weight (lb)	NEMA motor frame	Center distance		A	B	C	D	E	F
						Min	Max						
TXT305	TXT3SLMM	243164 ▲ ♣	TA3ML	55	56T—215T	23.1	28.3	7.0	15.0	40.0	17.0	4.00	3.94
TXT405	TXT4SLMM	244164 ♣	TA4ML	65	143T—286T	25.6	33.1	8.0	16.0	47.5	18.0	4.50	5.19
TXT505	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 TA motor mounts on pages G3-61 and G3-62.

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 the cover is replaced, the 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 (e.g., 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 (lb)
TXT1E	5	242101	0.6
TXT1E	9, 15, 25	241737	0.6
TXT2E	5	252101	1.0
TXT2E	9, 15, 25	242709	1.0
TXT3E	9, 15, 25	243737	0.6
TXT3E	5	252101	1.0
TXT4E	9, 15, 25	903102	1.2
TXT4E	5	244148	0.9
TXT5E	9, 15, 25	905102	2.2
TXT5E	5	246101	1.8
TXT6E	5	246092	2.5
TXT6E	9, 15, 25	246800	2.5
TXT7E	5	247260	2.8
TXT7E	9, 15, 25	247690	2.8
TXT8E	15, 25	907102	3.8
TXT8E	5*	250260	5.6
TXT9E	15, 26	907102	3.8
TXT9E	5*	272259	6.7
TXT10E	15, 24	272869	5.6
TXT12E	15, 25	272889	5.6
TDT13	25	272259	6.7
TDT14	25	272293	13.4
TDT15	30	272293	13.4

* Replacement parts only, gearboxes no longer available

■ See pages G3-170 and G3-171 for complete listing of backstop assemblies for all generations of TXT reducers

Screw conveyor Torque-Arm (SCXT)
Overview



SCXT

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 driveshaft machined from a high quality alloy steel. The drive shall conform to CEMA standards. Optional all steel motor mount adjusts to various belt center distances and supports the motor.

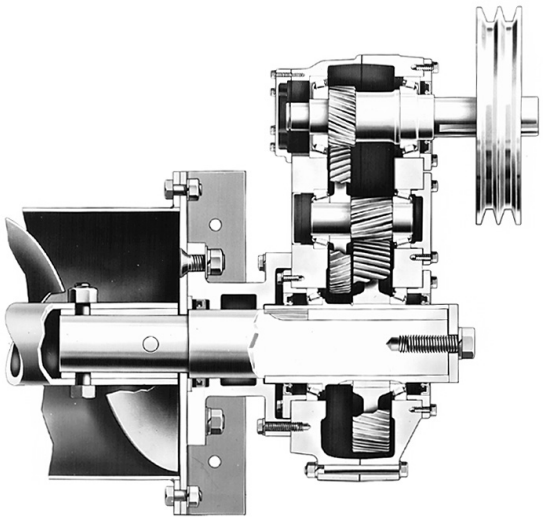
The reducer housing shall be constructed of two-piece corrosion resistant, class 30 gray iron. All housings shall be doweled and precision machined to assure accurate alignment of all gear sets.

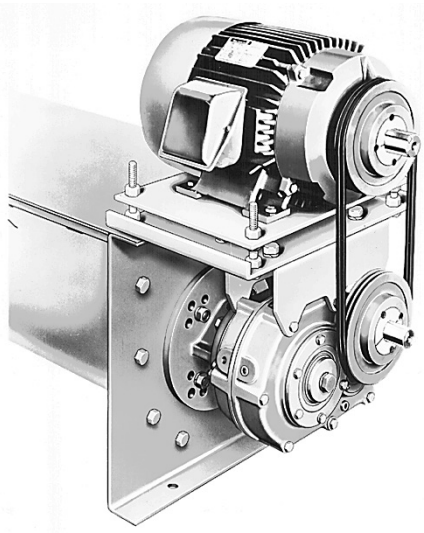
All gearing shall be of helical design, case carburized and precision finished to insure a high surface durability with a resilient tooth core for impact resistance and optimum service life. Gears shall be supported between bearings to maintain proper alignment of gear meshes, to maximize load carrying 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.

Features and benefits
SCXT





Note: Guards have been removed for photographic purposes

Dodge quality designed with the screw conveyor in mind

Our dependable screw conveyor drives provide a rugged, competitively priced, application-engineered drive for standard CEMA screw conveyors. The screw conveyor drive incorporates the proven reliability you have come to expect from the TA 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 driveshaft
- 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
- SCXT style double-reduction reducers not compatible with backstops. If backstop needed for screw conveyor application, use TA II option.

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

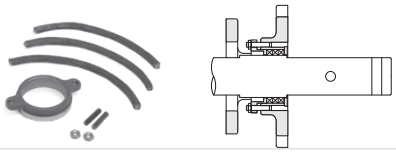
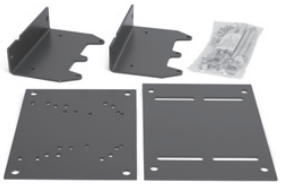
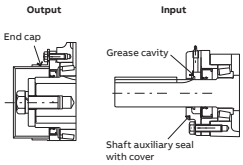
Where V-belt drives or electric motors cannot be used, Dodge offers a screw conveyor drive powered by a hydraulic motor.

Typical industries

Food	Asphalt
Grain	Water and wastewater
Aggregates	Lumber
Chemicals	Stone
Minerals	Clay
Coal	Glass

Accessories

SCXT

Accessories	Features	Benefits
CEMA adapter 	**Securely mounts reducer to CEMA screw conveyor end trough** 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.	• Reliably supports reducer, motor, and V-belt drive • Maximum torque and shock load capability • Fast and simple installation • Heavy-duty cast iron construction
Optional adjustable packing kit 	**Additional sealing for harsh-duty applications** Adjustable packing kit bolts to the standard adapter and provides a proven sealing option for hostile environments.	• Waterproof braided packing rings • Cast iron compression ring • Packing material can be re-tightened for sealing over time
Motor mounts 	**Provide a compact and economical method of mounting electric motors on TA Reducers** 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.	• Rigid motor support • Eliminates separate motor bases • Fast and easy belt tensioning • Accommodates standard NEMA Motors • Low cost and eliminates alignment problems
Auxiliary seal kits 	**Provide extra sealing on taper-bushed reducers** Auxiliary seal kits for 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.	• Protection from dust, dirt, and moisture • Low cost reducer protection • Can be grease purged for protection • Filtered air breather included
Driveshaft 	**Driveshaft transmits final torque to screw** CEMA driveshafts 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.	• Easy installation and maintenance • Different diameters for each size reducer • Standard two-hole design • Optional stainless-steel available • Optional three-hole CEMA driveshafts available
TA belt guards 	**Encloses belt drive to protect people** • Slotted metal panel construction • Yellow paint • Mounting hardware • Assembles to new motor mount holes • Flexibility	• New designed eliminates user access to reducer face and bushing bolts • 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

Selection procedures
SCXT

When to use easy selection

The easy selection tables for shaft-mount reducers are for electric motor selections up to 75 horsepower with output speeds up to 400 rpm, using AGMA recommended application class numbers. For extreme shock or high energy loads which must be absorbed, as when stalling; for power source other than an electric motor; or for extreme ambient temperatures, or oversized equipment, consult Dodge application engineering, +1 864 284 5700.

How to select

Step 1: Determine class of service

See Application classification table on page REF-3 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 shockloads are allowable if operation is intermittent.

For Class I applications, the maximum value of starting and momentary peak loads should not exceed two times the 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 times the 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 times the 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 G3-73 through G3-78. From Selection Class I, II or III 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 page G3-165 for maximum input and output speeds, overhung load ratings and WR^2 ratings.

Step 3: Check dimensions

See “Selection and dimensions” sections, pages G3-80 through G3-109 for reducer dimensions, weights and part numbers. See “Engineering and technical” section, page G3-157 for reducer and mounting positions.

Step 4: Select screw conveyor driveshaft and adapter

To fit screw diameter. See “Selection and dimensions” section for compatibility of screw diameter and driveshaft diameter.

Step 5: Select a belt drive arrangement

From the sheave ratio table, pages G3-151, select the required sheave ratio for the belt drive. Select the belt drive so that the sheave mounted on the reducer shaft is not smaller than the minimum sheave diameter shown on page G3-150. 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 G3-110 through G3-116, for description, dimensions, weights, and part numbers for accessories available for the screw conveyor drive reducer selected:

- Motor mounts
- Belt guards
- Cooling fans
- Auxiliary seal kits
- Alternative driveshaft styles
- Filter breathers

Note: SCXT is shipped without oil and are suitable from stock for vertical or incline mounting, no modification required.

Easy selection method example

A 5 hp 1,750 rpm motor is used to drive a heavy-duty screw conveyor that runs 10 hours per day in a local feed mill, conveying grain. User needs a replacement reducer drive for a CEMA standard screw conveyor with a 12 inch diameter screw and 2-7/16, diameter driveshaft. Conveyor speed is 72 rpm.

Step 1: Determine class of service

From the table on page REF-3, locate "conveyors, general purpose; screw conveyor heavy-duty, not uniformly loaded" for 3 to 10 hours per day. This load is classified as a Class II application.

Step 2: Determine reducer size

From the Class II Selection table, page G3-75, find the column for five hp and read down to 72 rpm. An SCXT225 reducer is the correct selection. Check maximum input and output speed, overhung load, and WR^2 requirements with reducer ratings on page G3-165.

Step 3: Check dimensions

See "Selection and dimensions" section for reducer dimensions, weights, part numbers and other pertinent drive dimensions. See "Engineering and technical" section page G3-154 for information on mounting positions.

Step 4: Select screw conveyor driveshaft and adapter

To fit screw diameter-See "Selection and dimensions" section, page G3-80. Here we verify that a 2-7/16 inch diameter driveshaft is compatible with 12 inch diameter screw. From this same page, select a C2A adapter which fits the 2-7/16 inch CEMA standard screw conveyor driveshaft.

Step 5: Select a belt drive arrangement

From the sheave ratio table, page G3-151, select a V-drive ratio for the conveyor speed of 72 rpm. With this information, select a belt drive that meets your customer's needs (i.e., belt style preference, service factor requirements, Taper-Lock® or QD mounting, etc.). Sheave diameter must not be less than minimum diameters shown in the "Minimum sheave diameters for Torque-Arm reducers" table on page G3-150.

Step 6: Select accessories

See "Selection and dimensions" page G3-81 to pick out accessories for this application:

- M214 Motor mount-to mount motor to side of SCXT225 reducer
- SCXT2D Expanded metal belt guard-to cover and protect the rotating belt drive

Selection
SCXT

This is a handy reference sheet for quick selection and specification of screw conveyor drive reducers. Use it to identify information needed to make an accurate selection with a step-by-step selection format for choosing reducer, accessories and V-belt. Use this page to make your own selections or send this form, with application data to Dodge for assistance.

Name _____ Company name _____

Phone number _____ Fax number _____

Application data

Type of driven equipment _____

Hours of service per day _____ Class of service _____

Type of load Uniform _____ Moderate _____ Shock _____

Motor type Horsepower (hp) _____ Speed (rpm) _____ Frame size _____ Shaft size _____

Screw conveyor rpm _____

Driveshaft diameter and type _____

Adapter type _____

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 rotation that meets application horsepower (hp) and driven speed (rpm) requirement

_____

Step 3 —Select driveshaft with diameter to fit screw size _____

Determine type of driveshaft needed Standard _____ Stainless-steel _____

3-hole standard _____ 3-hole stainless _____

Step 4 —Select adapter C Standard _____

AC Adjustable packing kit _____

Step 5 —Select accessories required for application

Motor mount Standard _____ Long _____

Bushing cover Standard _____ Long _____

Cooling fan _____ Auxiliary seal kit _____ Filter breather _____

Other _____

V-belt drive specification

Service factor _____ V-belt drive ratio needed _____

Belt center distance _____ Type of belt desired _____

Driver: Shaft diameter _____ Driven: Shaft diameter _____

Sheave _____ Sheave _____

Bushing _____ Bushing _____

Belts Size _____ Quantity _____

Class I SCXT

Easy selection

Class I - 1.0 service factor

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
1/4	4—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
1/3	5—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
1/2	4—6	—	SCXT225	—
	7—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
3/4	4—5	—	SCXT325	—
	6—10	—	SCXT225	—
	11—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
1	4—5	—	SCXT425	—
	6—7	—	SCXT325	—
	8—15	—	SCXT225	—
	16—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
1-1/2	4	—	SCXT525	—
	5—7	—	SCXT425	—
	8—12	—	SCXT325	—
	13—23	—	SCXT225	—
	24—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
2	4—6	—	SCXT525	—
	7—10	—	SCXT425	—
	11—17	—	SCXT325	—
	18—32	—	SCXT225	SCXT215
	33—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
3	4—5	—	SCXT625	—
	6—10	—	SCXT525	—
	11—15	—	SCXT425	—
	16—26	—	SCXT325	—
	27—51	—	SCXT225	SCXT215
	52—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
5	5—6	—	SCXT725	—
	7—9	—	SCXT625	—
	10—17	—	SCXT525	—
	18—26	—	SCXT425	SCXT415
	27—46	—	SCXT325	SCXT315
	47—70	—	SCXT225	SCXT215
	71—85	—	SCXT215	SCXT225
	86—92	—	SCXT109	SCXT215
	93—115	—	SCXT115	SCXT109
	116—119	—	SCXT109	SCXT115
	120—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
7-1/2	4—6	—	SCXT825	—
	7—9	—	SCXT725	—
	10—15	—	SCXT625	—
	16—26	—	SCXT525	—
	27—40	—	SCXT425	SCXT415
	41—70	—	SCXT325	SCXT315
	71—74	—	SCXT315	SCXT325
	75—85	—	SCXT215	SCXT225
	86—95	—	SCXT215	SCXT209
	96—140	SCXT205	SCXT209	SCXT215
	141—200	SCXT205	SCXT209	—
	201—231	SCXT205	—	—

~ See page G3-154 for lubrication for 15 rpm and slower

Class I SCXT

Easy selection

Class I - 1.0 service factor

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
10	6—8	—	SCXT825	—
	9—12	—	SCXT725	—
	13—20	—	SCXT625	—
	21—36	—	SCXT525	SCXT515
	37—56	—	SCXT425	SCXT415
	57—70	—	SCXT325	SCXT315
	71—85	—	SCXT315	SCXT325
	86—103	—	SCXT315	SCXT309
	104—115	—	SCXT215	SCXT209
	116—140	SCXT305	SCXT215	—
	141—158	SCXT305	SCXT309	—
	159—200	SCXT305	SCXT309	—
	201—400	SCXT205	—	—
15	9—13	—	SCXT825	—
	14—19	—	SCXT725	—
	20—32	—	SCXT625	SCXT615
	33—56	—	SCXT525	SCXT515
	57—70	—	SCXT425	SCXT415
	71—85	—	SCXT415	SCXT425
	86—93	—	SCXT415	SCXT409
	94—115	—	SCXT309 +	SCXT315
	116—140	SCXT405	SCXT315	SCXT309 +
	141—145	SCXT405	SCXT309 +	—
	146—200	SCXT305	SCXT309 +	—
	201—400	SCXT305	—	—
20	13—18	—	SCXT825	—
	19—26	—	SCXT725	SCXT715
	27—45	—	SCXT625	SCXT615
	46—70	—	SCXT525	SCXT515
	71—78	—	SCXT515	SCXT525
	79—85	—	SCXT415	SCXT42
	86—115	—	SCXT415	SCXT409 +
	116—140	SCXT405	SCXT409 +	SCXT415 +
	141—200	SCXT405	SCXT309 +	—
	201—241	SCXT405	—	—
	242—400	SCXT305 +	—	—
25	16—23	—	SCXT825	—
	24—33	—	SCXT725	SCXT715
	34—59	—	SCXT625	SCXT615
	60—70	—	SCXT525 +	SCXT515 +
	71—80	—	SCXT515 +	SCXT525 +
	81—101	—	SCXT515 +	SCXT509 +
	102—132	SCXT505	SCXT415 +	SCXT409 +
	133—140	SCXT505	SCXT409 +	SCXT415 +
	141—163	SCXT505	SCXT409 +	—
	164—200	SCXT405 +	SCXT409 +	—
	201—400	SCXT405 +	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
30	20—28	—	SCXT825	SCXT815
	29—41	—	SCXT725	SCXT715
	42—70	—	SCXT625	SCXT615
	71—75	—	SCXT615	SCXT625
	76—115	—	SCXT515 +	SCXT509 +
	116—125	SCXT605	SCXT509 +	SCXT515 +
	126—131	SCXT605	SCXT409 +	—
	132—200	SCXT505	SCXT409 +	—
	201—215	SCXT505 +	—	—
	216—400	SCXT405 +	—	—
40	26—38	—	SCXT825	SCXT815
	39—57	—	SCXT725	SCXT715
	58—70	—	SCXT625	SCXT615
	71—81	—	SCXT615 +	SCXT625 +
	82—114	SCXT605	SCXT615 +	SCXT609 +
	115—125	SCXT605	SCXT515 +	SCXT509 +
	126—200	SCXT605	SCXT509 +	—
	201—241	SCXT605	—	—
	242—400	SCXT505 +	—	—
50	33—49	—	SCXT825	SCXT815
	50—70	—	SCXT725	SCXT715
	71—74	—	SCXT715	SCXT725
	75—125	—	SCXT615 +	SCXT709 +
	126—163	SCXT605 +	SCXT709 +	—
	164—200	SCXT605 +	SCXT609 +	—
	201—400	SCXT605 +	—	—
60	40—60	—	SCXT825	SCXT815
	61—70	—	SCXT725 +	SCXT715 +
	71—120	—	SCXT715 +	SCXT709 +
	121—131	SCXT705	SCXT709 +	—
	132—200	SCXT605 +	SCXT709 +	—
	201—400	SCXT605 +	—	—
75	51—70	—	SCXT825	SCXT815
	71—78	—	SCXT815 +	—
	79—120	—	SCXT715 +	SCXT709 +
	121—200	SCXT705	SCXT709 +	—
	201—210	SCXT705	—	—
	211—400	SCXT605 +	—	—

~ See page G3-154 for lubrication for 15 rpm and slower

+ Fan cooling required—see page G3-11

Class II SCXT

Easy selection

Class II - 1.4 service factor

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
1/4	5—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
1/3	4—6	—	SCXT225	—
	7—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
1/2	4—5	—	SCXT325	—
	6—9	—	SCXT225	—
	10—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
3/4	4—5	—	SCXT425	—
	6—8	—	SCXT325	—
	9—16	—	SCXT225	—
	17—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
1	5—7	—	SCXT425	—
	8—11	—	SCXT325	—
	12—22	—	SCXT225	—
	23—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
1-1/2	5—6	—	SCXT525	—
	7—11	—	SCXT425	—
	12—18	—	SCXT325	—
	19—34	—	SCXT225	SCXT215
	35—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
2	4—5	—	SCXT625	—
	6—9	—	SCXT525	—
	10—14	—	SCXT425	—
	15—24	—	SCXT325	SCXT315
	25—47	—	SCXT225	SCXT215
	48—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
3	4—5	—	SCXT725	—
	6—8	—	SCXT625	—
	9—14	—	SCXT525	—
	15—22	—	SCXT425	SCXT415
	23—38	—	SCXT325	SCXT315
	39—70	—	SCXT225	SCXT215
	71—75	—	SCXT215	SCXT225
	76—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
5	4—6	—	SCXT825	—
	7—8	—	SCXT725	—
	9—14	—	SCXT625	—
	15—24	—	SCXT525	—
	25—37	—	SCXT425	SCXT415
	38—69	—	SCXT325	SCXT315
	70—85	—	SCXT215	SCXT225
	86—89	—	SCXT215	SCXT209
	90—136	SCXT205	SCXT209	SCXT215
	137—140	SCXT205	SCXT115	SCXT209
	141—191	SCXT205	SCXT109	—
	192—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
7-1/2	6—9	—	SCXT825	—
	10—13	—	SCXT725	—
	14—21	—	SCXT625	—
	22—38	—	SCXT525	SCXT515
	39—59	—	SCXT425	SCXT415
	60—70	—	SCXT325	SCXT315
	71—85	—	SCXT315	SCXT325
	86—110	—	SCXT315	SCXT309
	111—122	—	SCXT215	—
	123—140	SCXT305	SCXT209	SCXT215
	141—183	SCXT305	SCXT209	—
	184—200	SCXT205	SCXT209	—
	201—400	SCXT205	—	—

~ See page G3-154 for lubrication for 15 rpm and slower + Fan cooling required—see page G3-11

Class II SCXT

Easy selection

Class II - 1.4 service factor

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
10	8—12	—	SCXT825	—
	13—18	—	SCXT725	—
	19—29	—	SCXT625	SCXT615
	30—52	—	SCXT525	SCXT515
	53—70	—	SCXT425	SCXT415
	71—84	—	SCXT415	SCXT425
	85—130	—	SCXT315	SCXT309
	131—140	SCXT305	SCXT315	SCXT309
	141—200	SCXT305	SCXT309	—
	201—353	SCXT305	—	—
	354—400	SCXT205	—	—
15	13—19	—	SCXT825	—
	20—27	—	SCXT725	—
	28—47	—	SCXT625	SCXT615
	48—70	—	SCXT525	SCXT515
	71—82	—	SCXT515	SCXT525
	83—117	—	SCXT415	SCXT409
	118—140	SCXT405	SCXT409	SCXT415
	141—150	SCXT405	SCXT409	—
	151—200	SCXT405	SCXT309 +	—
	201—269	SCXT405	—	—
	270—400	SCXT305	—	—
20	18—26	—	SCXT825	—
	27—38	—	SCXT725	SCXT715
	39—68	—	SCXT625	SCXT615
	69—80	—	SCXT515	SCXT525
	81—89	—	SCXT515	—
	90—117	—	SCXT515 +	SCXT509 +
	118—125	SCXT505	SCXT409 +	SCXT415 +
	126—200	SCXT505	SCXT409 +	—
	201—400	SCXT405 +	—	—
25	23—33	—	SCXT825	SCXT815
	34—49	—	SCXT725	SCXT715
	50—80	—	SCXT615	SCXT625
	81—94	—	SCXT615	SCXT609
	95—125	SCXT605	SCXT509 +	SCXT515 +
	126—174	SCXT605	SCXT509 +	—
	175—200	SCXT505	SCXT409 +	—
	201—270	SCXT505	—	—
	271—400	SCXT405 +	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
30	28—41	—	SCXT825	SCXT815
	42—60	—	SCXT725	SCXT715
	61—76	—	SCXT625	SCXT615
	77—89	—	SCXT615	SCXT609
	90—125	SCXT605	SCXT615 +	SCXT609 +
	126—200	SCXT605	SCXT509 +	—
	201—233	SCXT605	—	—
	234—349	SCXT505 +	—	—
	350—400	SCXT405 +	—	—
40	37—56	—	SCXT825	SCXT815
	57—75	—	SCXT725	SCXT715
	76—88	—	SCXT715	—
	89—114	—	SCXT615 +	SCXT609 +
	115—120	—	SCXT615 +	SCXT609 +
	121—200	SCXT605	SCXT609 +	—
	201—347	SCXT605 +	—	—
	348—400	SCXT505 +	—	—
50	47—70	—	SCXT825	SCXT815
	71—72	—	SCXT815	SCXT825
	73—95	—	SCXT715 +	—
	96—110	SCXT705	SCXT709	SCXT715 +
	111—120	SCXT705	SCXT709 +	SCXT715 +
	121—179	SCXT705	SCXT709 +	—
	180—200	SCXT605	SCXT609 +	—
	201—400	SCXT605 +	—	—
60	57—70	—	SCXT825	SCXT815
	71—75	—	SCXT815	SCXT825
	76—89	—	SCXT815	—
	90—120	SCXT705	SCXT715 +	SCXT709 +
	121—200	SCXT705	SCXT709 +	—
	201—285	SCXT705	—	—
	286—400	SCXT605 +	—	—
75	74—75	—	SCXT815	SCXT825
	76—120	—	SCXT815 +	—
	121—133	—	SCXT709 +	—
	134—200	SCXT705	SCXT709 +	—
	201—400	SCXT705	—	—

~ See page G3-154 for lubrication for 15 rpm and slower

+ Fan cooling required—see page G3-11

Class III SCXT

Easy selection

Class III - 2.0 service factor

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
1/4	4—6	—	SCXT225	—
	7—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—89	—	SCXT115	SCXT109
	90—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
1/3	5—9	—	SCXT225	—
	10—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
1/2	4—5	—	SCXT425	—
	6—7	—	SCXT325	—
	8—15	—	SCXT225	—
	16—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
3/4	4	—	SCXT525	—
	5—7	—	SCXT425	—
	8—12	—	SCXT325	—
	13—23	—	SCXT225	—
	24—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
1	4—6	—	SCXT525	—
	7—10	—	SCXT425	—
	11—17	—	SCXT325	—
	18—32	—	SCXT225	—
	33—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
1-1/2	4—5	—	SCXT625	—
	6—10	—	SCXT525	—
	11—15	—	SCXT425	—
	16—26	—	SCXT325	—
	27—51	—	SCXT225	SCXT215
	52—70	—	SCXT125	SCXT115
	71—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
2	5—7	—	SCXT625	—
	8—13	—	SCXT525	—
	14—21	—	SCXT425	—
	22—36	—	SCXT325	SCXT315
	37—71	—	SCXT225	SCXT215
	72—85	—	SCXT115	SCXT125
	86—115	—	SCXT115	SCXT109
	116—140	SCXT105	SCXT109	SCXT115
	141—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—
3	4—5	—	SCXT825	—
	6—7	—	SCXT725	—
	8—12	—	SCXT625	—
	13—20	—	SCXT525	—
	21—32	—	SCXT425	SCXT415
	33—57	—	SCXT325	SCXT315
	58—70	—	SCXT225	SCXT215
	71—85	—	SCXT215	SCXT225
	86—89	—	SCXT215	SCXT209
	90—113	SCXT205	SCXT215	SCXT209
	114—140	SCXT205	SCXT109	SCXT115
	141—155	SCXT205	SCXT109	—
	156—200	SCXT105	SCXT109	—
	201—400	SCXT105	—	—

~ See page G3-154 for lubrication for 15 rpm and slower + Fan cooling required—see page G3-11

Class III SCXT

Easy selection

Class III - 2.0 service factor

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
5	6—8	—	SCXT825	—
	9—12	—	SCXT725	—
	13—20	—	SCXT625	—
	21—36	—	SCXT525	SCXT515
	37—56	—	SCXT425	SCXT415
	57—70	—	SCXT325	SCXT315
	71—85	—	SCXT315	SCXT325
	86—103	—	SCXT315	SCXT309
	104—114	SCXT305	SCXT215	SCXT309
	115—140	SCXT305	SCXT209	SCXT215
	141—167	SCXT305	SCXT209	—
	168—200	SCXT205	SCXT209	—
	201—400	SCXT205	—	—
7-1/2	9—13	—	SCXT825	—
	14—19	—	SCXT725	—
	20—32	—	SCXT625	SCXT615
	33—56	—	SCXT525	SCXT515
	57—70	—	SCXT425	SCXT415
	71—85	—	SCXT415	SCXT425
	86—93	—	SCXT415	SCXT409
	94—140	SCXT405	SCXT309	SCXT315
	141—144	SCXT405	SCXT309	—
	145—200	SCXT305	SCXT309	—
	201—400	SCXT305	—	—
10	13—18	—	SCXT825	—
	19—26	—	SCXT725	SCXT715
	27—45	—	SCXT625	SCXT615
	46—70	—	SCXT525	SCXT515
	71—78	—	SCXT515	SCXT525
	79—92	—	SCXT415	—
	93—105	—	SCXT415	SCXT409
	106—141	SCXT405	SCXT409	SCXT415
	142—200	SCXT405	SCXT309	—
	201—241	SCXT405	—	—
	242—400	SCXT305	—	—
15	20—28	—	SCXT825	SCXT815
	29—41	—	SCXT725	SCXT715
	42—70	—	SCXT625	SCXT615
	71—75	—	SCXT615	SCXT625
	76—93	—	SCXT515	—
	94—115	—	SCXT515	SCXT509
	116—125	SCXT605	SCXT509	SCXT515
	126—131	SCXT605	SCXT509	—
	132—200	SCXT505	SCXT409	—
	201—215	SCXT505	—	—
	216—400	SCXT405	—	—

Hp	Output speed (rpm)	Reducer selection		
		Single	Double	
20	26—38	—	SCXT825	SCXT815
	39—57	—	SCXT725	SCXT715
	58—70	—	SCXT625	SCXT615
	71—114	—	SCXT615	SCXT609
	115—125	SCXT605	SCXT509 +	SCXT515 +
	126—200	SCXT605	SCXT509 +	—
	201—218	SCXT605	—	—
	219—324	SCXT505	—	—
	325—400	SCXT405 +	—	—
25	33—49	—	SCXT825	SCXT815
	50—70	—	SCXT725	SCXT715
	71—74	—	SCXT715	SCXT725
	75—104	—	SCXT615	SCXT609
	105—113	—	SCXT615 +	SCXT609
	114—125	SCXT605	SCXT615 +	SCXT609 +
	126—200	SCXT605	SCXT609 +	—
	201—294	SCXT605	—	—
	295—400	SCXT505 +	—	—
30	40—60	—	SCXT825	SCXT815
	61—70	—	SCXT725	SCXT715
	71—98	—	SCXT715	—
	99—125	—	SCXT615	SCXT609 +
	126—131	SCXT705	SCXT609 +	—
	132—200	SCXT605	SCXT609 +	—
	201—381	SCXT605	—	—
	382—400	SCXT505 +	—	—
40	54—70	—	SCXT825	SCXT815
	71—84	—	SCXT815	—
	85—89	—	SCXT715	SCXT709
	90—120	SCXT705	SCXT715 +	SCXT709
	121—200	SCXT705	SCXT709 +	—
	201—249	SCXT705	—	—
	250—400	SCXT605+	—	—
50	70—75	—	SCXT815	SCXT825
	76—110	—	SCXT815	—
	111—120	—	SCXT715 +	SCXT709 +
	121—123	—	SCXT709 +	—
	124—200	SCXT705	SCXT709 +	—
	201—400	SCXT705	—	—
60	86—120	—	SCXT815	—
	142—161	—	SCXT709 +	—
	162—200	SCXT705	SCXT709 +	—
	201—400	SCXT705	—	—

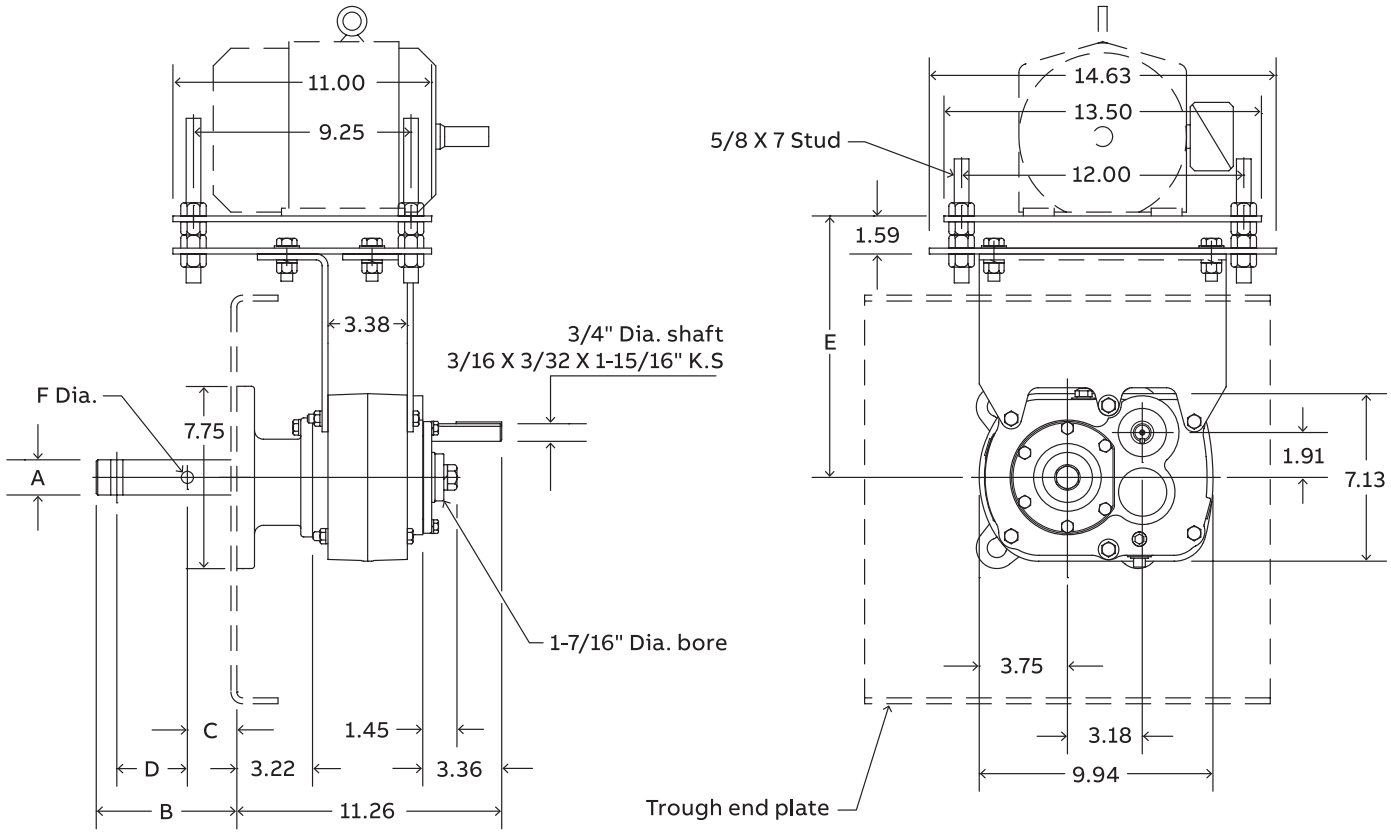
~ See page G3-154 for lubrication for 15 rpm and slower

+ Fan cooling required—see page G3-11

Selection and dimensions

SCXT1E

Double-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C1 x 1-1/2	6—9	1.50	6.00	2.13	3.00	0.52
C1 x 2	9—12	2.00	6.00	2.13	3.00	0.64
C1 x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C1 x 3	12—20	3.00	6.88	2.88	3.00	0.77

All dimensions are in inches.

SCXT1E

Double-reduction

SCXT1E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT109E	E241480	107D09	9.44	45
SCXT115E	E351163	107D15	15.35	45
SCXT125E	E351164	107D25	25.64	45

Description	Part number	Weight (lb)
C1A Adapter assembly ▲	351086	13
AC1 Adjustable packing kit ♠	356301	0.8
C1 x 1-1/2 Driveshaft ~	351094	7.2
C1 x 2 Driveshaft ~	351095	9.1
C1 x 2 7/16 Driveshaft ~	351096	12.5
C1 x 3 Driveshaft ~	351097	17.4

Accessories for SCXT1E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
M112 Standard motor mount	56T—210T	6—12	351069	42.0
SCXT1D SCD Reducer belt guard	56T—210T	—	242489	27.0
M120L Long motor mount	56T—210T	14—20	272625	51.0
SCXT1D SCD Reducer belt guard for long motor mount	56T—210T	—	241149	32.0
TXT1—TXT4 Hydra-Lock desiccant breather kit HLO	—	—	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT1E ABS Closed bushing cover	—	—	241717	0.5
SCXT1 Lube kit	—	—	LUBEKITTXT1	4.6
TXT1—4 Immersion heater	—	—	241103	2.0
3/8 Sight oil level gauge (TXT1—4)	—	—	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	—	—	900110 *	2.0
SCXT1 Auxiliary seal kit ♥	—	—	272721	2.0

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

SCXT1 motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames					
			56, 140		180		210	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M112	11.1	15.3	13.5	17.0	14.5	18.0	15.3	19.0
M120L	17.1	21.3	19.5	22.9	20.5	23.9	21.2	24.7

♣ Made to order.

† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.

♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.

◆ Provides for V-belt adjustment

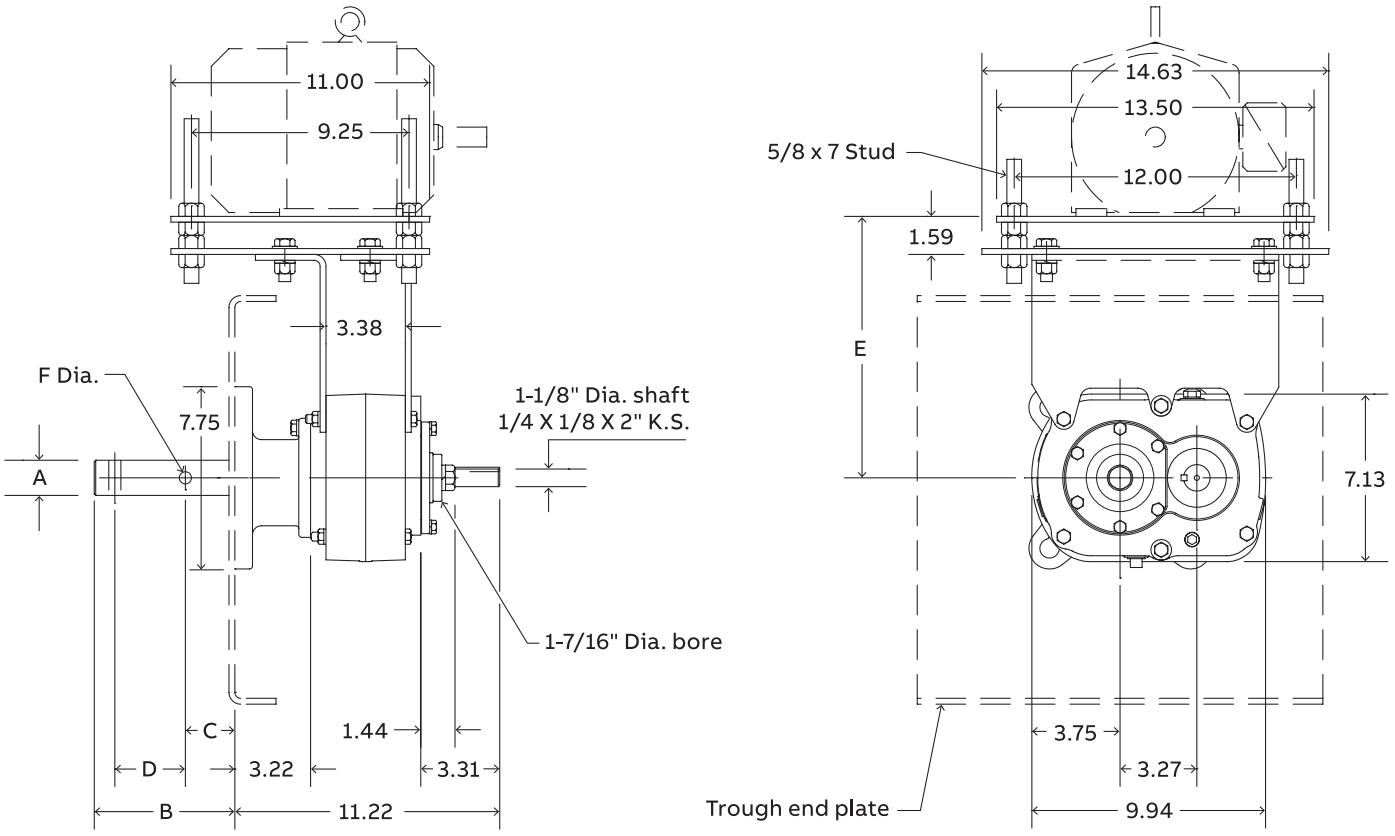
♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer

▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details.

~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge. SCXT style gearboxes are not compatible with backstops

SCXT105E

Single-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C1 x 1-1/2	6—9	1.50	6.00	2.13	3.00	0.52
C1 x 2	9—12	2.00	6.00	2.13	3.00	0.64
C1 x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C1 x 3	12—20	3.00	6.88	2.88	3.00	0.77

All dimensions are in inches.

SCXT105E

Single-reduction

SCXT105E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT105	351165	107S05	5.62	40

Description	Part number	Weight (lb)
C1A Adapter assembly ▲	351086	13
AC1 Adjustable packing kit ♠	356301	0.8
C1 x 1-1/2 Driveshaft ~	351094	7.2
C1 x 2 Driveshaft ~	351095	9.1
C1 x 2 7/16 Driveshaft ~	351096	12.5
C1 x 3 Driveshaft ~	351097	17.4

Accessories for SCXT105E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
M112 Standard motor mount	56T—210T	6—12	351069	42.0
SCXT1S SCD Reducer belt guard	56T—210T	—	242489	30.0
M120L Long motor mount	56T—210T	14—20	272625	51.0
SCXT1S SCD Reducer belt guard for long motor mount ♠	56T—210T	—	241142	36.0
TXT1—TXT4 Hydra-Lock desiccant breather kit HLO	—	—	964372	0.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	0.0
TXT Enclosed breather system sm (1—10)	—	—	240050	0.0
OPTIFY Performance Sensor	—	—	820000	5.0
TXT1E ABS Closed bushing cover	—	—	241717	5.0
SCXT105 Lube kit	—	—	LUBEKITTXT105	5.0
TXT1—4 Immersion heater	—	—	241103	2.0
3/8 Sight oil level gauge (TXT1—4)	—	—	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	—	—	900110 *	2.0
SCXT105 Auxiliary seal kit ♥	—	—	251146	2.0

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

SCXT105 motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames					
			56, 140		180		210	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M112	11.1	15.3	15.4	19.0	16.4	20.0	17.2	20.6
M120L	17.1	21.3	21.4	24.8	22.4	25.8	23.1	26.6

♣ Made to order.

† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.

♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.

◆ Provides for V-belt adjustment

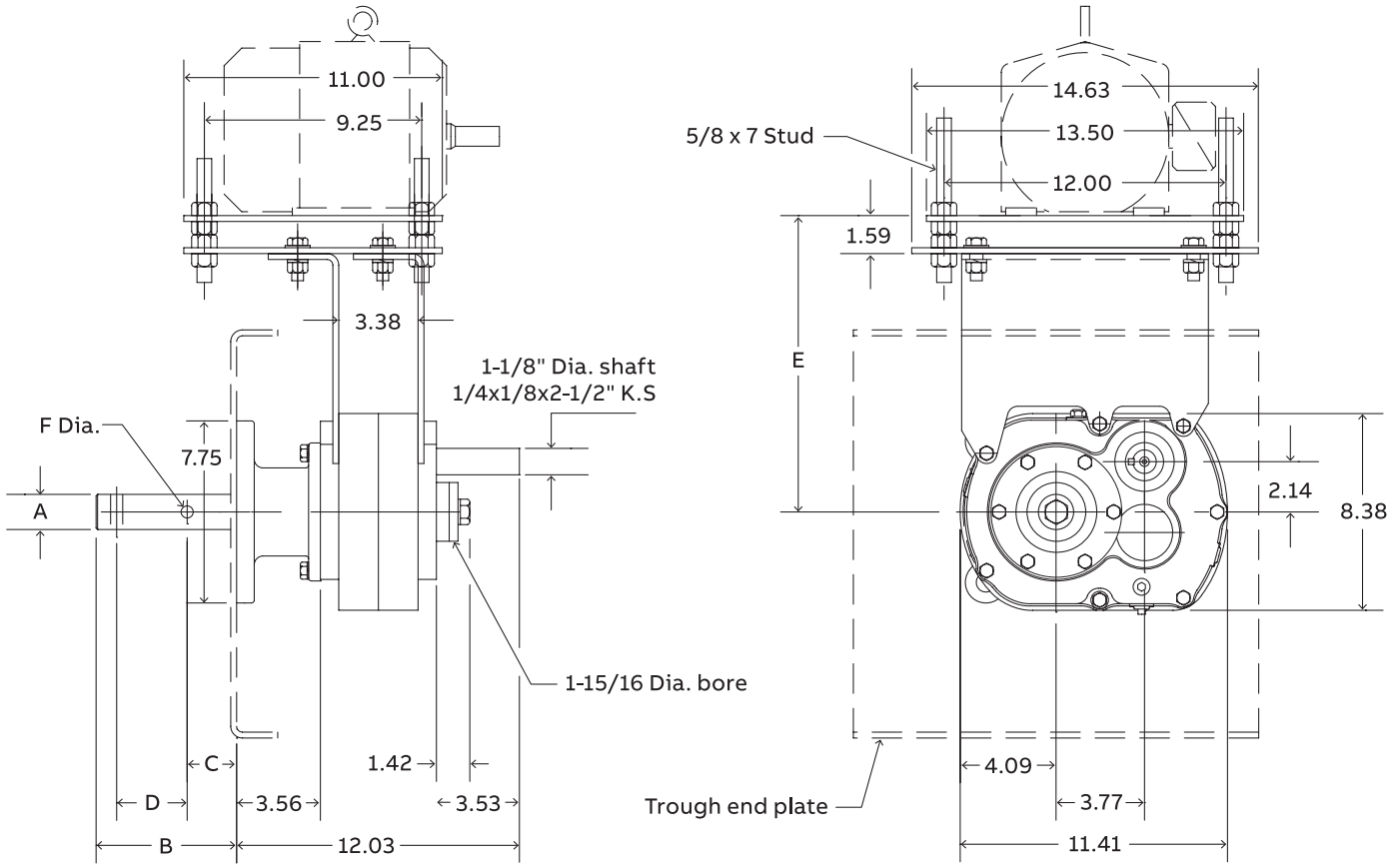
♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer

▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details.

~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge. SCXT style gearboxes are not compatible with backstops

SCXT2E

Double-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C2 x 1-1/2	6—9	1.50	6.00	2.13	3.00	0.52
C2 x 2	9—12	2.00	6.00	2.13	3.00	0.64
C2 x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C2 x 3	12—20	3.00	6.88	2.88	3.00	0.77

All dimensions are in inches.

SCXT2E
Double-reduction

SCXT2E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT209E	E242480	115D09	9.25	58
SCXT215E	E352065	115D15	14.10	58
SCXT225E	E352066	115D25	23.46	58

Description	Part number	Weight (lb)
C2A Adapter assembly ▲	352052	15
AC2 Adjustable packing kit ♠	356302	1.2
C2 x 1-1/2 Driveshaft ~	352090	11.4
C2 x 2 Driveshaft ~	352091	13.8
C2 x 2 7/16 Driveshaft ~	352092	17.3
C2 x 3 Driveshaft ~	352093	19

Accessories for SCXT2E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
M214 Standard motor mount	56T—210T	6—14	352069	43.0
SCXT2D SCD Reducer belt guard	56T—210T	—	242489	32.0
M220L Long motor mount	56T—210T	16—20	272626	51.0
SCXT2D SCD Reducer belt guard for long motor mount	56T—210T	—	242223	38.0
TXT1—TXT4 Hydra-Lock desiccant breather kit HLO	—	—	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT2E ABS Closed bushing cover	—	—	242717	0.5
SCXT2 Lube kit	—	—	LUBEKITTXT2	4.6
TXT1—4 Immersion heater	—	—	241103	2.0
3/8 Sight oil level gauge (TXT1—4)	—	—	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	—	—	900110 *	2.0
SCXT2 Auxiliary seal kit ♥	—	—	272722	3.0

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

SCXT2 motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames					
			56, 140		180		210	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M214	12.6	16.8	14.9	18.3	15.9	19.3	16.6	20.0
M220L	18.6	22.8	20.9	24.2	21.9	25.3	22.6	26.0

♣ Made to order.

† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.

♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.

◆ Provides for V-belt adjustment

♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer

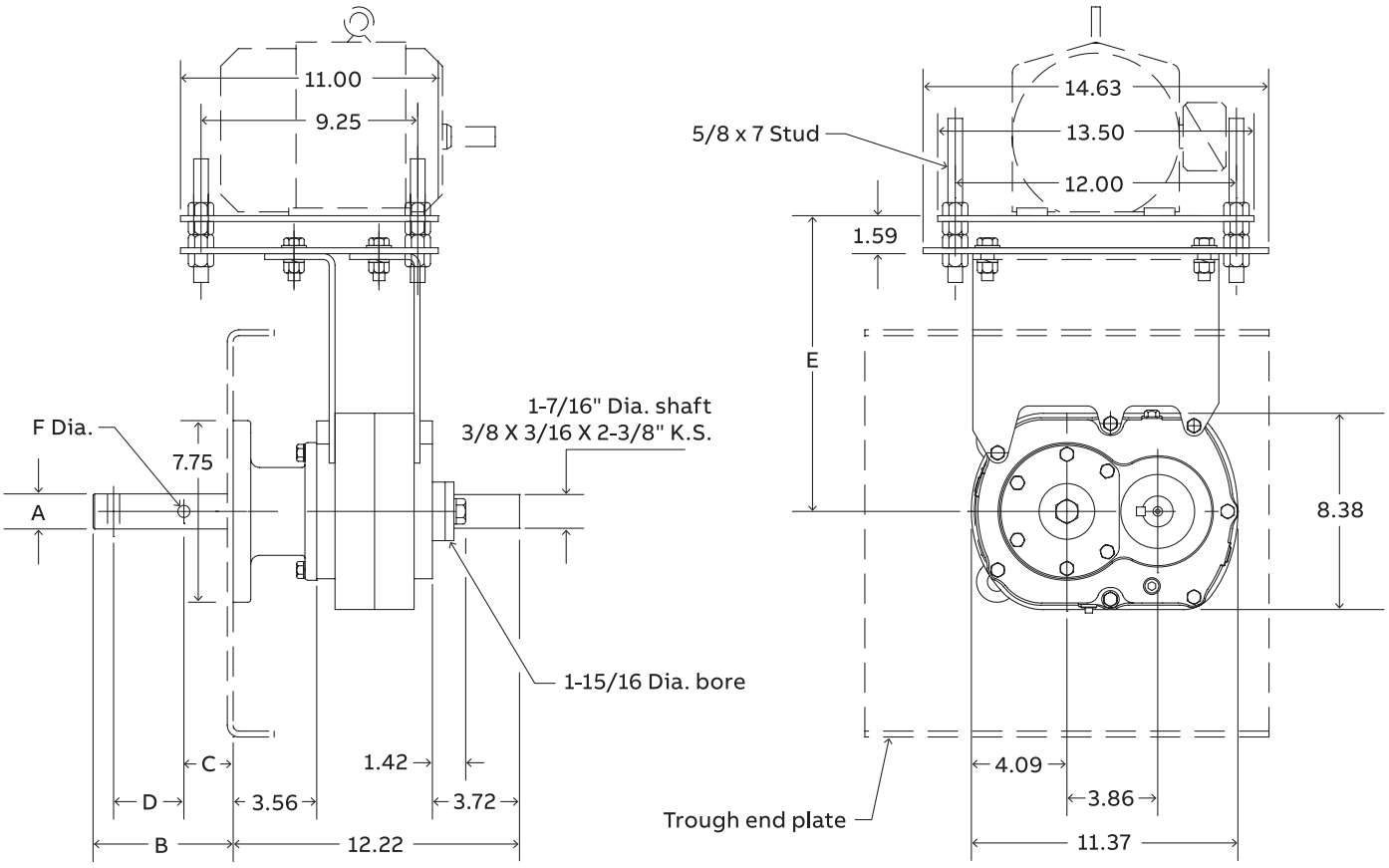
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details.

~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge Application Engineering at +1 864 284 5700.

SCXT style gearboxes are not compatible with backstops

SCXT205E

Single-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C2 x 1-1/2	6—9	1.50	6.00	2.13	3.00	0.52
C2 x 2	9—12	2.00	6.00	2.13	3.00	0.64
C2 x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C2 x 3	12—20	3.00	6.88	2.88	3.00	0.77

All dimensions are in inches.

SCXT205E
Single-reduction

SCXT205E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT205	352218	115S05	5.29	52

Description	Part number	Weight (lb)
C2A Adapter assembly ▲	352052	15
AC2 Adjustable packing kit ♠	356302	1.2
C2 x 1-1/2 Driveshaft ~	352090	11.4
C2 x 2 Driveshaft ~	352091	13.8
C2 x 2 7/16 Driveshaft ~	352092	17.3
C2 x 3 Driveshaft ~	352093	19

Accessories for SCXT205E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
M214 Standard motor mount	56T—210T	6—12	352069	43.0
SCXT2S SCD Reducer belt guard	56T—210T	—	242491	34.0
M220L Long motor mount	56T—210T	14—20	272626	51.0
SCXT2S SCD Reducer belt guard for long motor mount	56T—210T	—	242114	41.0
TXT1—TXT4 Hydra-Lock desiccant breather kit HLO	—	—	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT2E ABS Closed bushing cover	—	—	241717	0.5
SCXT205 Lube kit	—	—	LUBEKITTXT205	6.9
TXT1—4 Immersion heater	—	—	241103	2.0
3/8 Sight oil level gauge (TXT1—4)	—	—	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	—	—	900110 *	2.0
SCXT205 Auxiliary seal kit ♥	—	—	252146	3.0

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

SCXT205 motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames					
			56, 140		180		210	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M214	12.6	16.8	17.0	20.5	18.0	21.4	18.7	22.2
M220L	18.6	22.8	23.0	26.4	24.0	27.5	24.7	28.2

♣ Made to order.

† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.

♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.

◆ Provides for V-belt adjustment

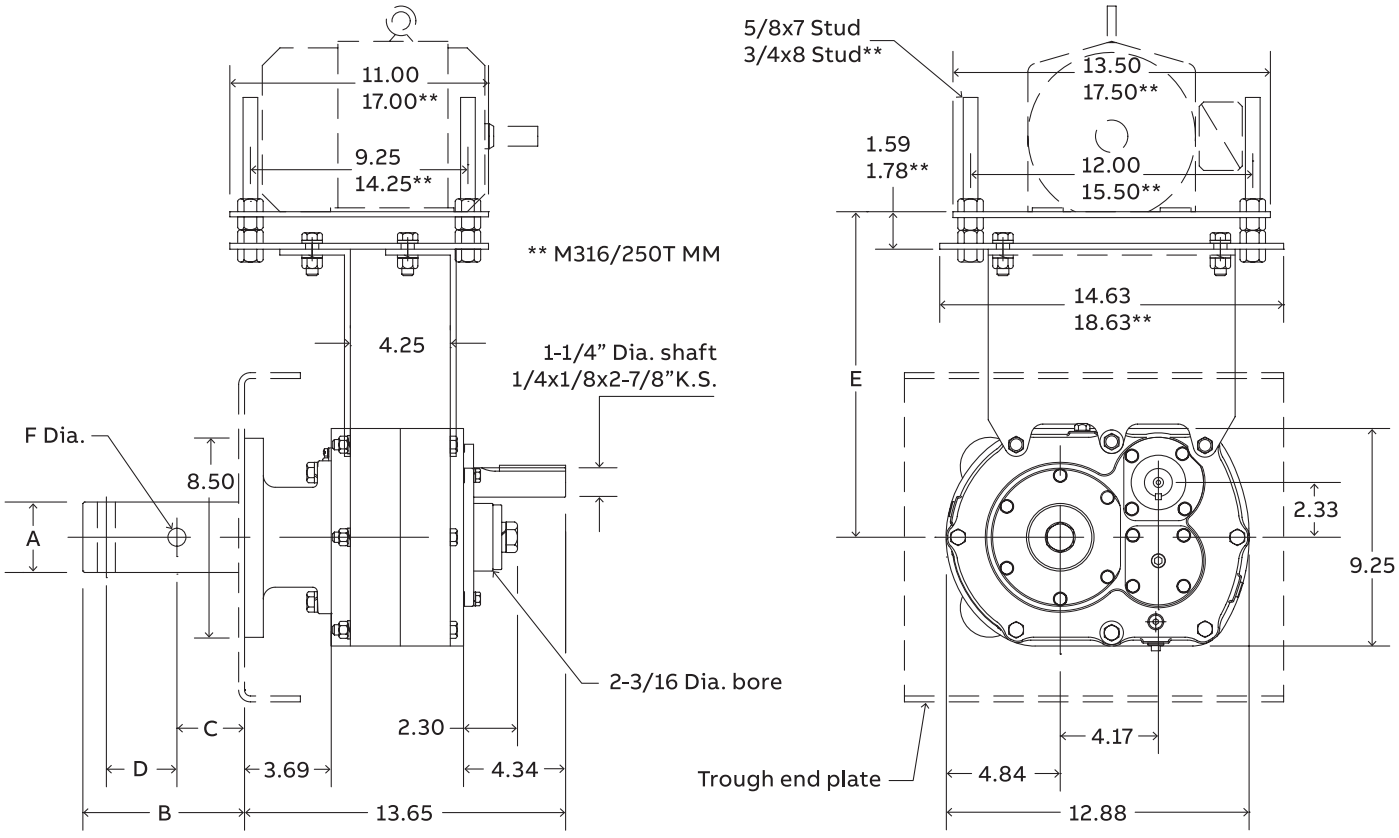
♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer

▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details.

~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge. SCXT style gearboxes are not compatible with backstops

SCXT3E

Double-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C3 x 1-1/2	9	1.50	6.00	2.13	3.00	0.52
C3 x 2	9—12	2.00	6.00	2.13	3.00	0.64
C3 x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C3 x 3	12—20	3.00	6.88	2.88	3.00	0.77

All dimensions are in inches.

SCXT3E
Double-reduction

SCXT3E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT309E	E243524	203D09	8.91	98
SCXT315E	E243525	203D15	14.88	98
SCXT325E	E243526	203D25	24.71	98

Description	Part number	Weight (lb)
C3 Adapter assembly ▲	353047	29
AC3 Adjustable packing kit ♠	356303	1.4
C3 x 1-1/2 Driveshaft ~	243562	15
C3 x 2 Driveshaft ~	243563	16
C3 x 2 7/16 Driveshaft ~	243564	19.5
C3 x 3 Driveshaft ~	243565	26

Accessories for SCXT3E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
SCXT3 Cooling fan assembly	—	—	243581	3.0
M316 Standard motor mount	56T—210T	6—16	353069	44.0
SCXT3-D SCD Reducer belt guard	56T—210T	—	243416	40.0
M316/250T Special motor mount ■ ●	250T	6—16	353070	44.0
M320L Long motor mount	56T—210T	18—20	272627	56.0
SCXT3-D SCD Reducer belt guard for long motor mount	56T—210T	—	243154	48.0
TXT1—TXT4 Hydra-Lock desiccant breather kit HLO	—	—	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT3E ABS Closed bushing cover	—	—	243717	0.5
SCXT3 Lube kit	—	—	LUBEKITTXT3	6.9
TXT1—4 Immersion heater	—	—	241103	2.0
3/8 Sight oil level gauge (TXT1—4)	—	—	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	—	—	900110 *	2.0
SCXT3A Auxiliary seal kit ♥	—	—	243582	5.0

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

SCXT3 motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames							
			56, 140		180		210		250	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min	Max
M316	13.8	18.0	15.8	19.3	16.8	20.3	17.6	21.0	18.6	22.0
M320L	19.8	24.0	21.8	25.3	22.8	26.3	23.6	27.0	—	—

♣ Made to order.

† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.

♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.

◆ Provides for V-belt adjustment

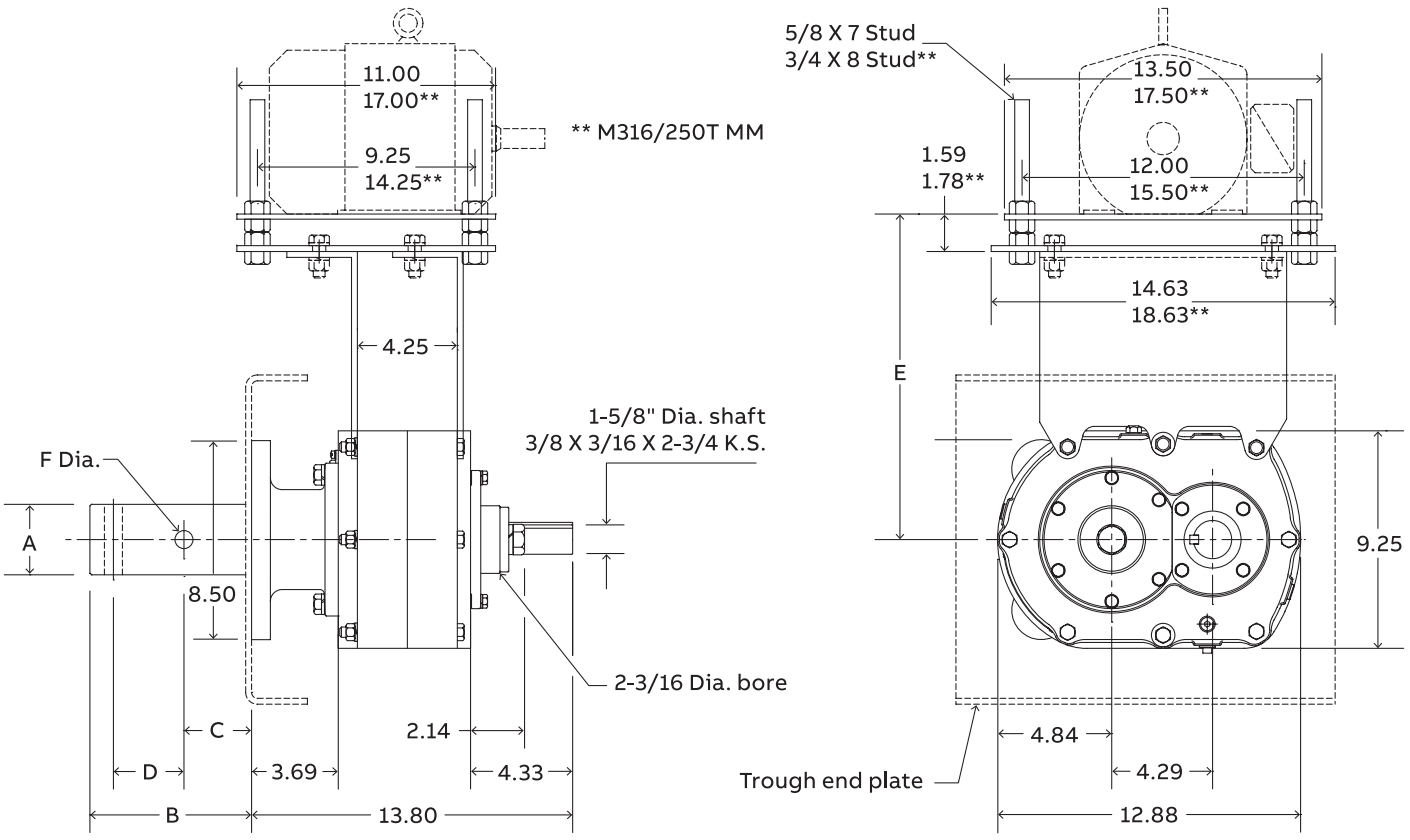
♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer

▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details.

~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge. SCXT style gearboxes are not compatible with backstops

SCXT305E

Single-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C3 x 1-1/2	9	1.50	6.00	2.13	3.00	0.52
C3 x 2	9—12	2.00	6.00	2.13	3.00	0.64
C3 x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C3 x 3	12—20	3.00	6.88	2.88	3.00	0.77

All dimensions are in inches.

SCXT305E
Single-reduction

SCXT305E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT305E	253159	203S05	5.60	86

Description	Part number	Weight (lb)
C3 Adapter assembly ▲	353047	29
AC3 Adjustable packing kit ♠	356303	1.4
C3 x 1-1/2 Driveshaft ~	243562	15
C3 x 2 Driveshaft ~	243563	16
C3 x 2 7/16 Driveshaft ~	243564	19.5
C3 x 3 Driveshaft ~	243565	26

Driveshafts listed are compatible with SCXT3A, B. C, and E revisions only.
For driveshafts compatible with older generations, please consult the Renewal Parts manual.

Accessories for SCXT305E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
SCXT305 Cooling fan assembly	—	—	253188	3.0
M316 Standard motor mount	56T—210T	6—16	353069	44.0
SCXT3S SCD Reducer belt guard	56T—210T	—	243418	40.0
M316/250T Special motor mount ■ ●	250T	6—16	353070	44.0
M320L Long motor mount	56T—210T	18—20	272627	56.0
SCXT3S SCD Reducer belt guard for long motor mount	56T—210T	—	243167	48.0
TXT1—TXT4 Hydra-Lock desiccant breather kit HLO	—	—	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT3E ABS Closed bushing cover	—	—	243717	0.0
SCXT305 Lube kit	—	—	LUBEKITTXT305	8.0
TXT1—4 Immersion heater	—	—	241103	2.0
3/8 Sight oil level gauge (TXT1—4)	—	—	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	—	—	900110 *	2.0
SCXT305A Auxiliary seal kit ♥	—	—	253146	5.0

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

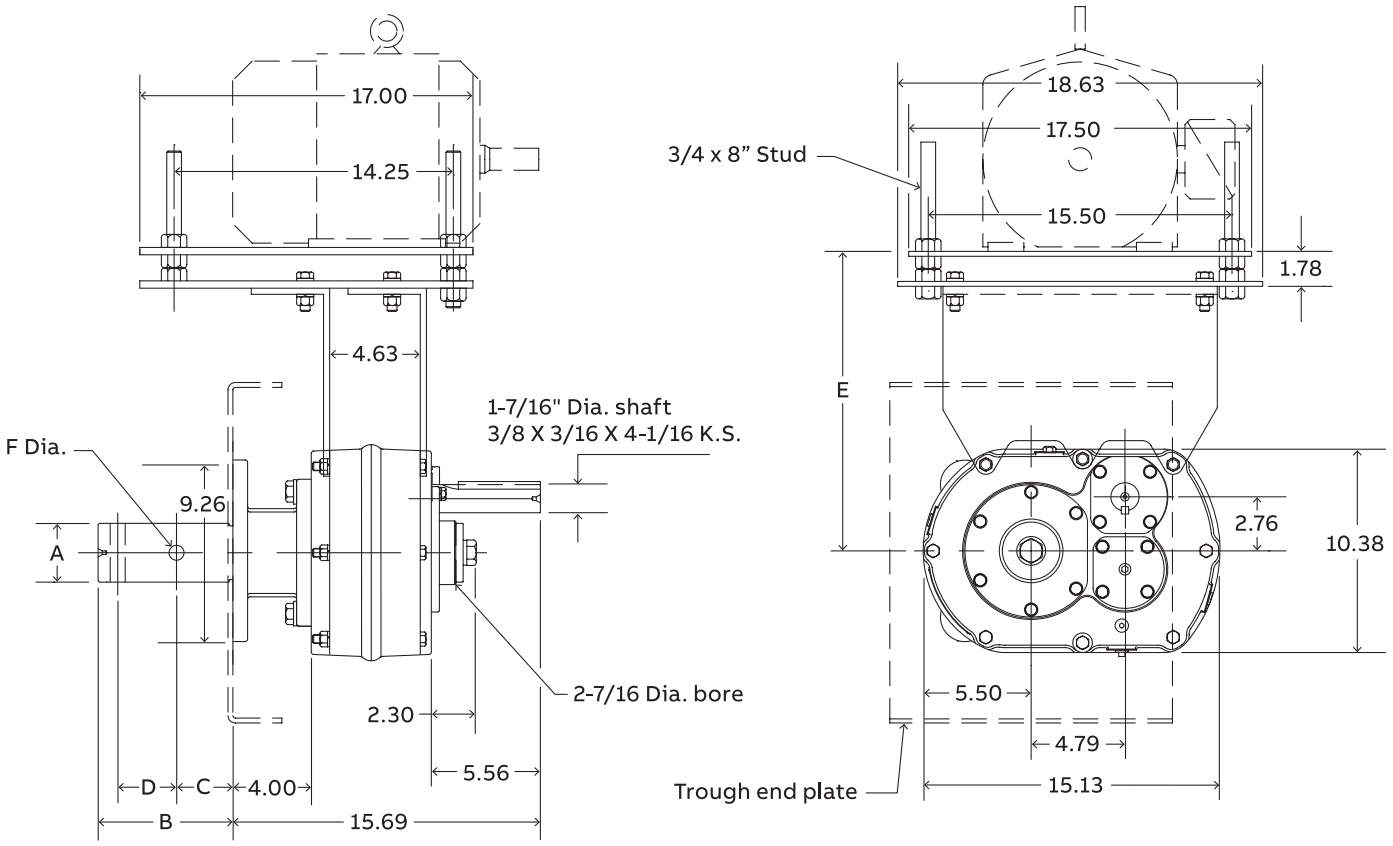
SCXT305 motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames							
			56, 140		180		210		250	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M316	13.8	18.0	18.2	21.6	19.2	22.6	19.5	23.4	20.9	24.4
M320L	19.8	24.0	24.2	27.6	25.2	28.6	25.9	29.4	—	—

♣ Made to order.
† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.
♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.
◆ Provides for V-belt adjustment
♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details.
~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge. SCXT style gearboxes are not compatible with backstops

SCXT4E

Double-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C4 x 1-1/2	9	1.50	6.00	2.13	3.00	0.52
C4 x 2	9—12	2.00	6.00	2.13	3.00	0.64
C4 x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C4 x 3	12—20	3.00	6.88	2.88	3.00	0.77
C4 x 3-7/16	18—24	3.44	9.13	3.88	4.00	0.89

All dimensions are in inches.

SCXT4E
Double-reduction

SCXT4E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT409E	E244549	207D09	9.67	139
SCXT415E	E244550	207D15	15.13	139
SCXT425E	E244551	207D25	24.38	139

Description	Part number	Weight (lb)
C4 Adapter assembly ▲	354121	33
AC4 Adjustable packing kit ♠	356304	2.1
C4 x 1-1/2 Driveshaft ~	244594	19
C4 x 2 Driveshaft ~	244595	20.80
C4 x 2 7/16 Driveshaft ~	244596	24.30
C4 x 3 Driveshaft~	244597	29.20
C4 x 3-7/16 Driveshaft ~	244598	39.30

Driveshafts listed are compatible with SCXT4A and SCXT4B revisions only.
For driveshafts compatible with older generations, please consult the Renewal Parts manual.

Accessories for SCXT4E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
SCXT4 Cooling fan assembly	—	—	272594	3.3
M418 Standard motor mount	140T—280T	9—18	354069	86.0
SCXT4D SCD Reducer belt guard	140T—280T	—	245495	44.4
M418/320T Special motor mount ■ ♣	320T	9—18	354028	90.0
M424L Long motor mount	140T—280T	20—24	272628	100.0
SCXT4D SCD Reducer belt guard for long motor mount	140T—280T	—	244152	53.3
TXT1—TXT4 Hydra-Lock desiccant breather kit HLO	—	—	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT4E ABS Closed bushing cover	—	—	244717	0.5
SCXT4 Lube kit	—	—	LUBEKITTXT4	10.4
TXT1—4 Immersion heater	—	—	241103	2.0
3/8 Sight oil level gauge (TXT1—4)	—	—	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	—	—	900110 *	2.0
SCXT4A Auxiliary seal kit ♥	—	—	244677	5.5

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

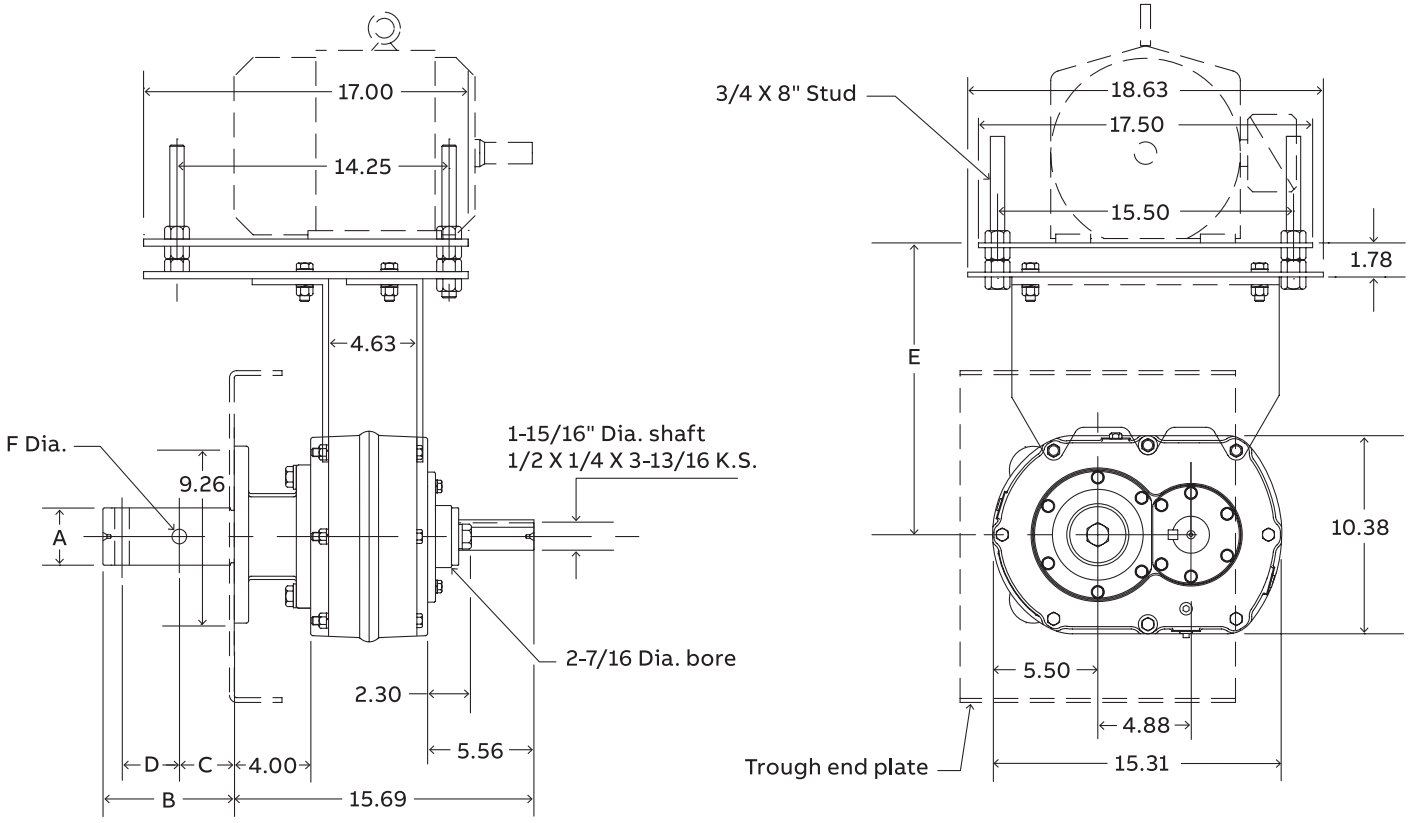
SCXT4 motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames											
			56, 140		180		210		250		280		320	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min	Max	Min.	Max.	Min.	Max.
M418	15.3	20.1	16.9	21.0	17.9	22.0	18.6	22.7	19.6	23.7	20.4	24.5	21.4	25.4
M424L	21.3	26.1	23.2	27.0	24.2	28.0	24.9	28.6	25.9	29.6	26.7	30.4	—	—

♣ Made to order
† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.
♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.
◆ Provides for V-belt adjustment
● Drawing dimensions are noted as **
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details
~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge.
■ Standard belt guards will not fit with this motor mount
♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer
SCXT style gearboxes are not compatible with backstops

SCXT405E

Single-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C4 x 1-1/2	9	1.50	6.00	2.13	3.00	0.52
C4 x 2	9—12	2.00	6.00	2.13	3.00	0.64
C4 x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C4 x 3	12—20	3.00	6.88	2.88	3.00	0.77
C4 x 3-7/16	18—24	3.44	9.13	3.88	4.00	0.89

All dimensions are in inches.

SCXT405E
Single-reduction

SCXT405E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT405E	254208	207S05	5.65	122

Description	Part number	Weight (lb)
C4 Adapter assembly ▲	354121	33
AC4 Adjustable packing kit ♠	356304	2.1
C4 x 1-1/2 Driveshaft ~	244594	19
C4 x 2 Driveshaft ~	244595	20.80
C4 x 2 7/16 Driveshaft ~	244596	24.30
C4 x 3 Driveshaft ~	244597	29.20
C4 x 3-7/16 Driveshaft ~	244598	39.30

Driveshafts listed are compatible with SCXT3A and SCXT3B revisions only.
For driveshafts compatible with older generations, please consult the Renewal Parts manual.

Accessories for SCXT405E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
SCXT405 Cooling fan assembly	—	—	254268	3.3
M418 Standard motor mount	140T—280T	9—18	354069	86.0
SCXT4S SCD Reducer belt guard	140T—280T	—	244491	50.0
M418/320T Special motor mount ■ ♣	320T	9—18	354028	90.0
M424L Long motor mount	140T—280T	20—24	272628	100.0
SCXT4S SCD Reducer belt guard for long motor mount ♣	140T—280T	—	244167	60.0
TXT1—TXT4 Hydra-Lock desiccant breather Kit HLO	—	—	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT4E ABS Closed bushing cover	—	—	244717	0.5
SCXT405 Lube kit	—	—	LUBEKITTXT405	12.7
TXT1—4 Immersion heater	—	—	241103	2.0
3/8 Sight oil level gauge (TXT1—4)	—	—	430120 *	1.0
3/8 Sight oil level tube (TXT1—4)	—	—	900110 *	2.0
SCXT405A Auxiliary seal kit ♥	—	—	254146	5.5

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

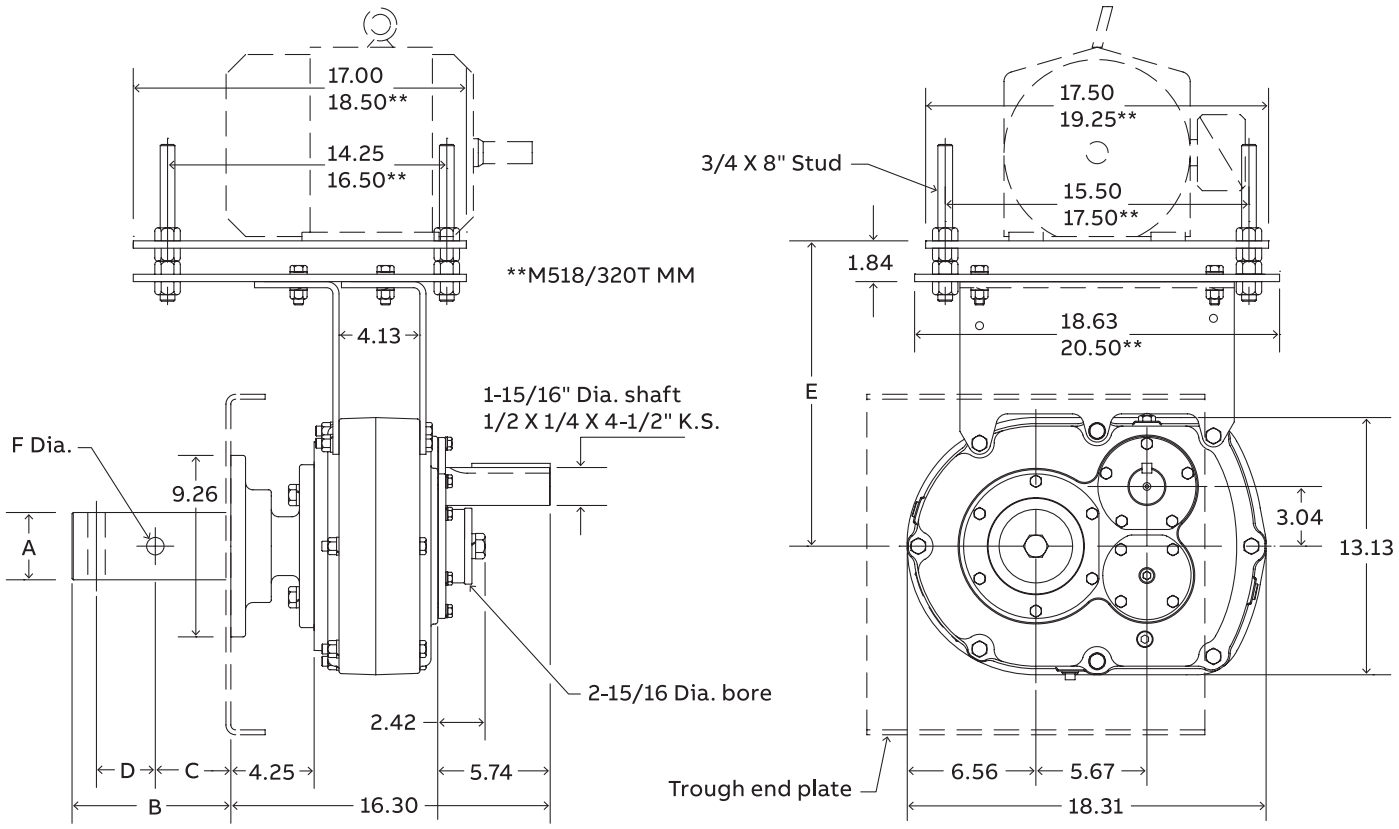
SCXT405 motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames											
			56, 140		180		210		250		280		320	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M418	15.3	20.1	19.6	23.7	20.6	24.7	21.4	25.5	22.4	26.5	23	27.2	21.4	25.4
M424L	21.3	26.1	25.9	29.7	26.9	30.7	27.7	31.4	28.7	32.3	29.4	33.2	—	—

♣ Made to order
† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.
♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.
◆ Provides for V-belt adjustment
● Drawing dimensions are noted as **
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details
~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge.
■ Standard belt guards will not fit with this motor mount
♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer
TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

SCXT5E

Double-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C5B x 2	9—12	2.00	6.00	2.13	3.00	0.64
C5B x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C5B x 3	12—20	3.00	6.88	2.88	3.00	0.77
C5B x 3-7/16	18—24	3.44	9.13	3.88	4.00	0.89

All dimensions are in inches.

SCXT5E
Double-reduction

SCXT5E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT509E	E245574 ♣	215D09	8.95	207
SCXT515E	E245575	215D15	15.40	207
SCXT525E	E245576	215D25	25.56	207

Description	Part number	Weight (lb)
C5 Adapter assembly ▲	355072	43
AC5 Adjustable packing kit ♠	356305	2.1
C5B x 2 Driveshaft ~	355175	29.4
C5B x 2 7/16 Driveshaft ~	355176	33
C5B x 3 Driveshaft ~	355177	37.9
C5B x 3-7/16 Driveshaft ~	355178	48.3

Driveshafts listed are compatible with SCXT5B and SCXT5C revisions only.
For driveshafts compatible with older generations, please consult the Renewal Parts manual.

Accessories for SCXT5E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
SCXT5 Cooling fan assembly	—	—	272369	3.0
M518 Standard motor mount	140T—280T	9—18	355169	82.0
SCXT5D SCD Reducer belt guard	140T—280T	—	245495	45.0
M518/320T Special motor mount ■ ● ♣	320T	9—18	355168	82.0
M524L Long motor mount	140T—280T	20—24	272629	110.0
SCXT5D SCD Reducer belt guard for long motor mount	140T—280T	—	245103	54.0
TXT5—TXT9 Hydra-Lock desiccant breather kit HL1	—	—	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT5E ABS Closed bushing cover	—	—	244717	0.5
SCXT5 Lube kit	—	—	LUBEKITTXT5	18.5
TXT5—6 Immersion heater	—	—	241103	2.0
1/2 Sight oil level gauge (TXT5—6)	—	—	430120 *	1.0
1/2-3/4 Sight oil level tube (TXT5—6)	—	—	900110 *	2.0
SCXT5B Auxiliary seal kit ♥	—	—	245637	6.0

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

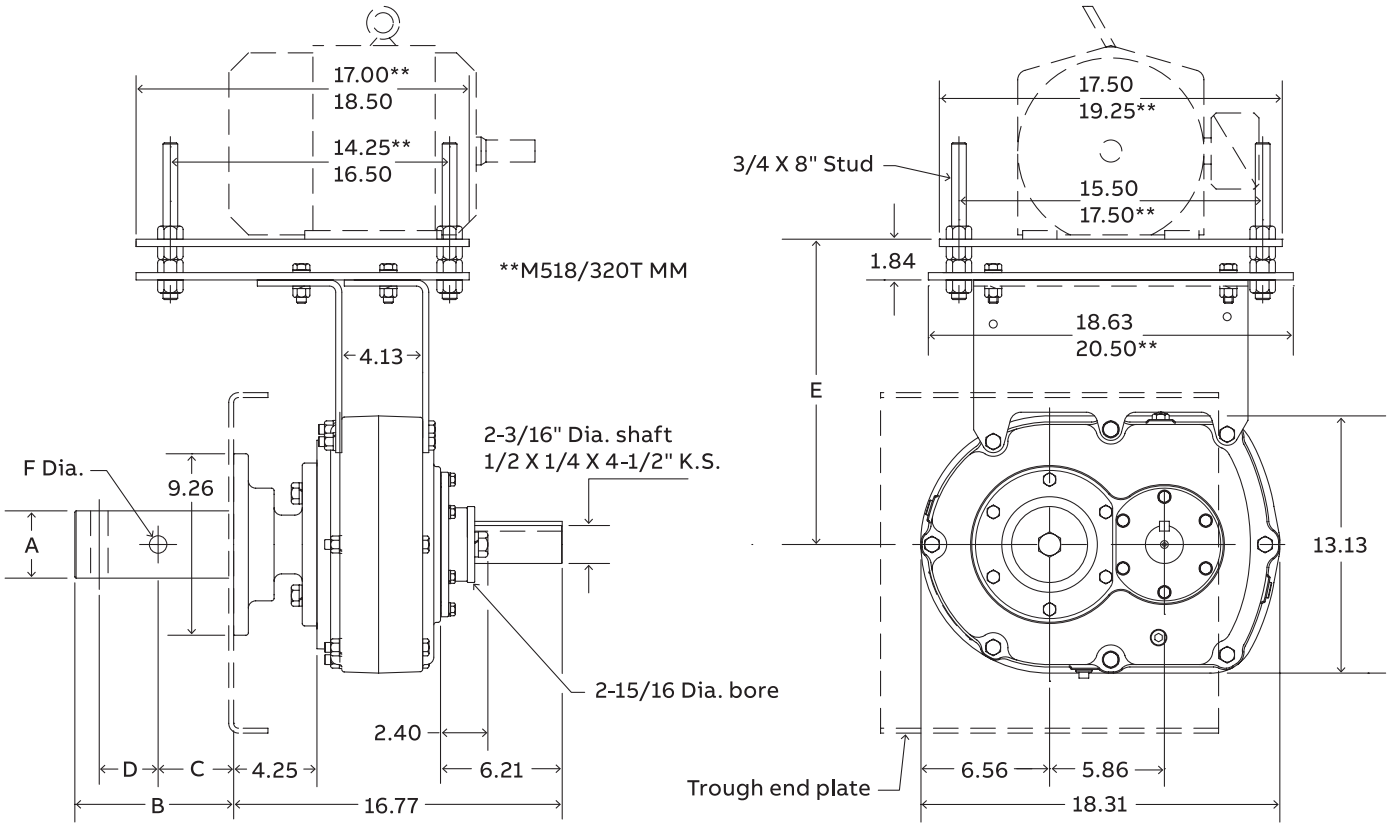
SCXT5E motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames											
			56, 140		180		210		250		280		320	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min	Max	Min.	Max.	Min.	Max.
M518	15.3	20.1	16.6	20.7	17.6	21.7	18.4	22.4	19.4	23.4	20	24.2	21.1	25.2
M524L	21.3	26.1	22.9	26.6	23.9	27.6	24.7	28.4	25.7	29.4	26.4	30.1	—	—

♣ Made to order
† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.
♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.
◆ Provides for V-belt adjustment
● Drawing dimensions are noted as **
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details
~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge.
■ Standard belt guards will not fit with this motor mount
♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer
SCXT style gearboxes are not compatible with backstops

SCXT505E

Single-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C5B x 2	9—12	2.00	6.00	2.13	3.00	0.64
C5B x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C5B x 3	12—20	3.00	6.88	2.88	3.00	0.77
C5B x 3-7/16	18—24	3.44	9.13	3.88	4.00	0.89

All dimensions are in inches.

SCXT505E
Single-reduction

SCXT505E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT505E	255208	215S05	5.67	182

Description	Part number	Weight (lb)
C5 Adapter assembly ▲	355072	43
AC5 Adjustable packing kit ♠	356305	2.1
C5B x 2 Driveshaft ~	355175	29.4
C5B x 2 7/16 Driveshaft ~	355176	33
C5B x 3 Driveshaft ~	355177	37.9
C5B x 3-7/16 Driveshaft ~	355178	48.3

Driveshafts listed are compatible with SCXT3A and SCXT3B revisions only.
For driveshafts compatible with older generations, please consult the Renewal Parts manual.

Accessories for SCXT505E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
SCXT505 Cooling fan assembly	—	—	255231	3.0
M518 Standard motor mount	140T—280T	9—18	355169	82.0
SCXT5S SCD Reducer belt guard	140T—280T	—	245497	70.0
M518/320T Special motor mount ■ ● ♣	320T	9—18	355168	82.0
M524L Long motor mount	140T—280T	20—24	272629	110.0
SCXT5S SCD Reducer belt guard for long motor mount ♣	140T—280T	—	245015	84.0
TXT5—TXT9 Hydra-Lock desiccant breather kit HL1	—	—	964372	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT5E ABS Closed bushing cover	—	—	245717	0.5
SCXT505 Lube kit	—	—	LUBEKITTXT505	18.5
TXT5—6 Immersion heater	—	—	241103	2.0
1/2 Sight oil level gauge (TXT5—6)	—	—	430120 *	1.0
1/2-3/4 Sight oil level tube (TXT5—6)	—	—	900110 *	2.0
SCXT505A Auxiliary seal kit ♥	—	—	255148	6.0

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

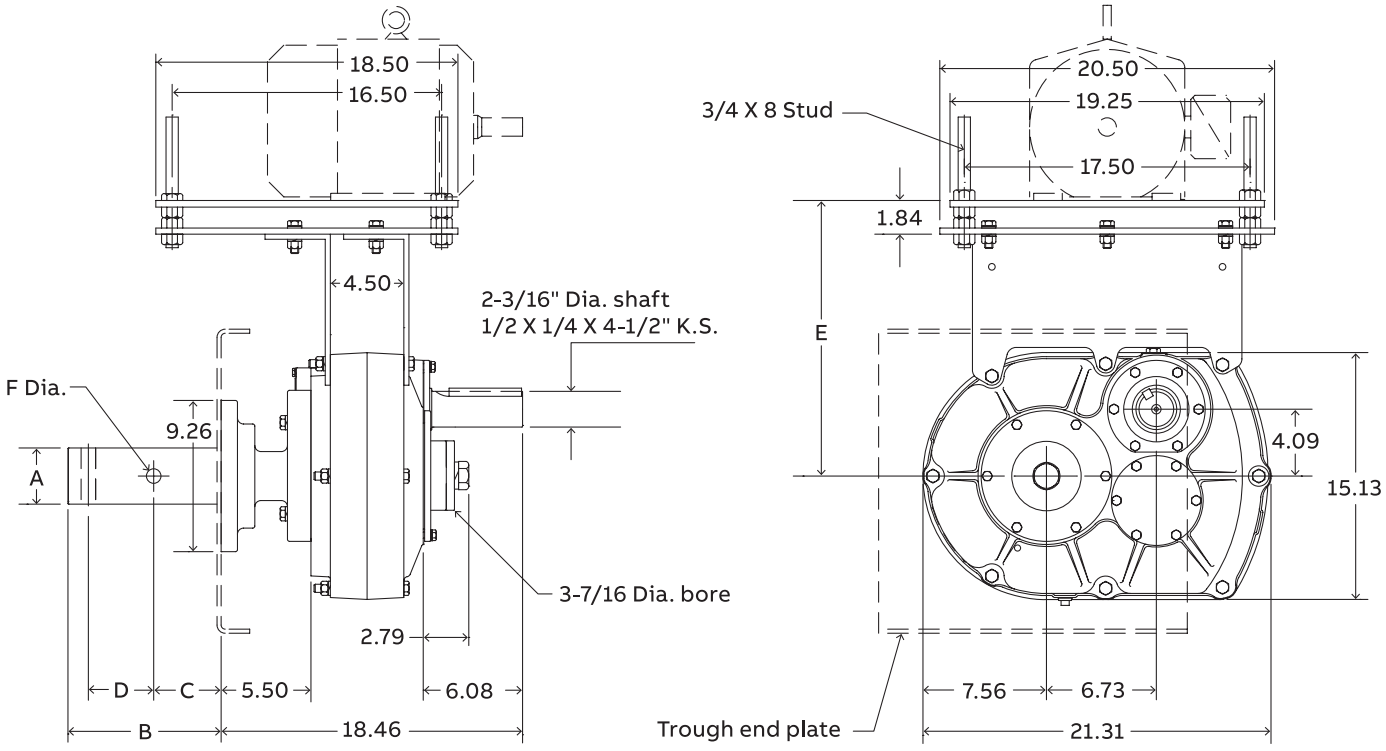
SCXT505E motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames											
			56, 140		180		210		250		280		320	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M518	15.3	20.1	19.7	23.8	20.7	24.7	21.4	25.5	22.4	26.5	23	27.2	24.2	28.2
M524L	21.3	26.1	25.9	29.7	26.9	30.7	27.7	31.4	28.7	32.4	29.5	33.2	—	—

♣ Made to order
† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.
♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.
◆ Provides for V-belt adjustment
● Drawing dimensions are noted as **
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details
~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge.
■ Standard belt guards will not fit with this motor mount
♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer
SCXT style gearboxes are not compatible with backstops

SCXT6E

Double-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C6 x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C6 x 3	12—20	3.00	6.88	2.88	3.00	0.77
C6 x 3-7/16	18—24	3.44	9.13	3.88	4.00	0.89

All dimensions are in inches.

SCXT6E

Double-reduction

SCXT6A screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT609E	E246480 ♣	307D09	9.20	285
SCXT615E	E356057	307D15	15.33	285
SCXT625E	E356058	307D25	25.13	285

Description	Part number	Weight (lb)
C6 Adapter Assembly ▲	356055	56
AC6/AC7 Adjustable Packing Kit ♠	356306	2.4
C6 x 2 7/16 Driveshaft ~	356042	47.7
C6 x 3 Driveshaft ~	356043	52.7
C6 x 3-7/16 Driveshaft ~	356044	63

Accessories for SCXT6E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
SCXT6 Cooling fan assembly	—	—	272325	3.0
M620 Standard motor mount	140T—320T	12—20	356069	105.0
SCXT6D SCD Reducer belt guard	140T—320T	—	246476	60.0
M624L Long motor mount ♣	140T—320T	24	272630	122.0
SCXT6D SCD Reducer belt guard for long motor mount	140T—320T	—	246148	72.2
TXT5—TXT9 Hydra-Lock desiccant breather kit HL1	—	—	964364	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT6E ABS Closed bushing cover	—	—	246799	0.5
SCXT6 Lube kit	—	—	LUBEKITTXT6	20.8
TXT5—6 Immersion heater	—	—	241104	2.0
1/2 Sight oil level gauge (TXT5—6)	—	—	430121 *	1.0
1/2-3/4 Sight oil level tube (TXT5—6)	—	—	900110 *	2.0
SCXT6 Auxiliary seal kit ♥	—	—	272726	7.0

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

SCXT6E motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames											
			56, 140		180		210		250		280		320	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min	Max	Min.	Max.	Min.	Max.
M620	16.7	21.4	17.0	21.0	18.0	22.0	18.8	22.8	19.7	23.8	20.5	24.5	21.5	25.5
M624L	22.7	27.4	23.2	27.0	24.2	27.9	27.9	28.7	25.9	29.7	26.7	30.5	27.6	31.4

♣ Made to order.

† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.

♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.

◆ Provides for V-belt adjustment

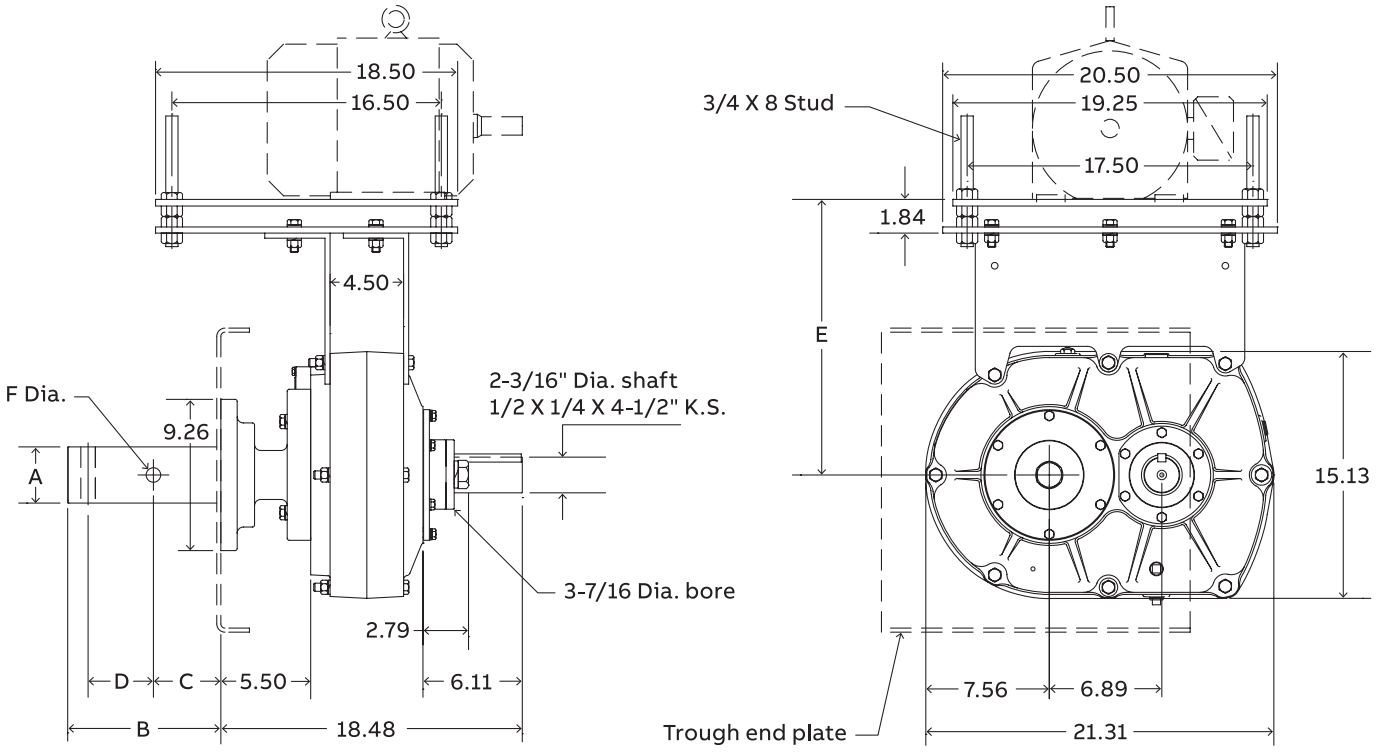
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details.

~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge.

♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer
SCXT style gearboxes are not compatible with backstops

SCXT605E

Single-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C6 x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C6 x 3	12—20	3.00	6.88	2.88	3.00	0.77
C6 x 3-7/16	18—24	3.44	9.13	3.88	4.00	0.89

All dimensions are in inches.

SCXT605E

Single-reduction

SCXT605E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT605	356285	307S05	5.67	251

Description	Part number	Weight (lb)
C6 Adapter Assembly ▲	356055	56
AC6/AC7 Adjustable Packing Kit ♠	356306	2.4
C6 x 2 7/16 Driveshaft ~	356042	47.7
C6 x 3 Driveshaft ~	356043	52.7
C6 x 3-7/16 Driveshaft ~	356044	63

Accessories for SCXT605E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
SCXT605 Cooling fan assembly ♣	—	—	272681	3.0
M620 Standard motor mount	140T—320T	12—20	356069	105.0
SCXT6S SCD Reducer belt guard	140T—320T	—	246478	77.0
M624L Long motor mount ♣	140T—320T	24	272630	122.0
SCXT6S SCD Reducer belt guard for long motor mount ♣	140T—320T	—	246142	92.0
TXT5—TXT9 Hydra-Lock desiccant breather kit HL1	—	—	964364	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT6E ABS Closed bushing cover	—	—	246799	0.5
SCXT605 Lube kit	—	—	LUBEKITTXT605	24.3
TXT5—6 Immersion heater	—	—	241104	2.0
1/2 Sight oil level gauge (TXT5—6)	—	—	430121 *	1.0
1/2-3/4 Sight oil level tube (TXT5—6)	—	—	900110 *	2.0
SCXT6 Auxiliary seal kit ♥	—	—	272726	7.0

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

SCXT605 motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames											
			56, 140		180		210		250		280		320	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M620	16.7	21.4	21.1	25.1	22.1	26.1	22.8	26.8	23.8	27.9	24.6	28.6	25.6	29.6
M624L	22.7	27.4	27.2	31.1	28.2	32.1	29	32.8	30	33.8	30.7	34.6	31.7	35.5

♣ Made to order.

† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.

♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.

◆ Provides for V-belt adjustment

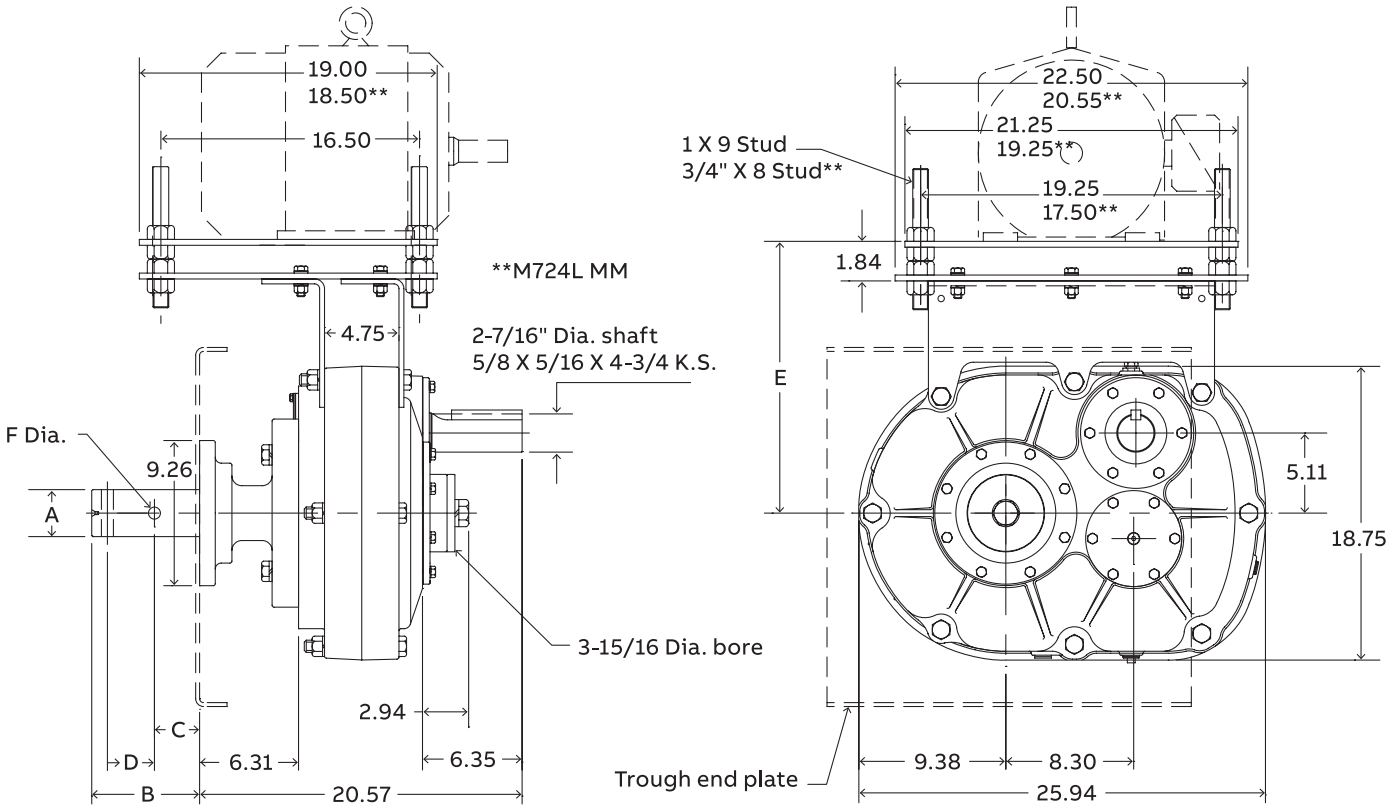
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details.

~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge.

♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer
SCXT style gearboxes are not compatible with backstops

SCXT7E

Double-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C7 x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C7 x 3	12—20	3.00	6.88	2.88	3.00	0.77
C7 x 3-7/16	18—24	3.44	9.13	3.88	4.00	0.89

All dimensions are in inches.

SCXT7E
Double-reduction

SCXT7E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT709E	E247480 ♣	315D09	9.61	462
SCXT715E	E356256 ♣	315D15	15.23	462
SCXT725E	E356257	315D25	24.59	462

Description	Part number	Weight (lb)
C7 Adapter Assembly ▲	356187	72
AC6/AC7 Adjustable Packing Kit ♠	356306	2.4
C7 x 2 7/16 Driveshaft ~	356182 ♣	58
C7 x 3 Driveshaft ~	356183	70
C7 x 3-7/16 Driveshaft ~	356184	80.3

Accessories for SCXT7E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
SCXT7 Cooling fan assembly	—	—	272326	6.0
M720 Standard motor mount	140T—360T	12—20	356269	106.0
SCXT7D SCD Reducer belt guard	140T—360T	—	247474	75.0
M724L Long motor mount ♣ ●	140T—320T	24	272631	130.0
SCXT7D SCD Reducer belt guard for long motor mount	140T—320T	—	247153	90.0
TXT5—TXT9 Hydra-Lock desiccant breather kit HL1	—	—	964364	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT7E ABS Closed bushing cover	—	—	247683	0.5
SCXT7 Lube kit	—	—	LUBEKITTXT7	54.7
SCXT7 Auxiliary seal kit ♥	—	—	272727	8.0

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

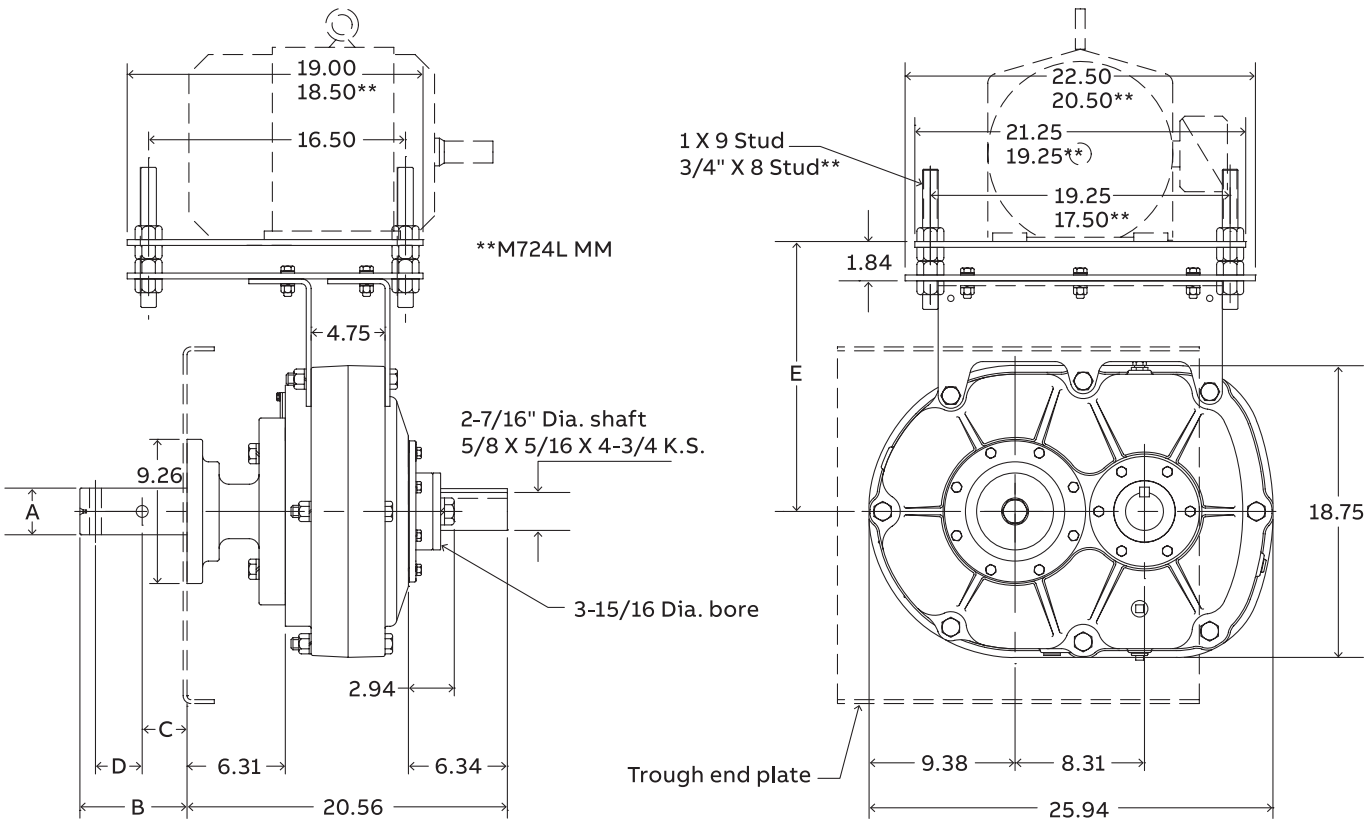
SCXT7E motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames													
			56, 140		180		210		250		280		320			
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min	Max	Min.	Max.	Min.	Max.	Min.	Max.
M720	17.5	21.7	17.1	20.5	18.1	21.5	18.8	22.2	19.8	23.2	20.5	24.0	21.5	25.0	22.5	26.0
M724L	23.5	27.7	22.4	26.1	23.3	27.1	24.1	27.8	25.0	28.8	25.8	29.5	26.8	30.5	—	—

♣ Made to order
† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.
♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.
◆ Provides for V-belt adjustment
● Drawing dimensions are noted as **
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details
~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge.
■ Standard belt guards will not fit with this motor mount
♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer
SCXT style gearboxes are not compatible with backstops

SCXT705E

Single-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C7 x 2-7/16	12—14	2.44	6.69	2.75	3.00	0.64
C7 x 3	12—20	3.00	6.88	2.88	3.00	0.77
C7 x 3-7/16	18—24	3.44	9.13	3.88	4.00	0.89

All dimensions are in inches.

SCXT705E

Single-reduction

SCXT705E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT705	356295 ♣	315S05	5.36	410

Description	Part number	Weight (lb)
C7 Adapter assembly ▲	356187	72
AC6/AC7 Adjustable packing kit ♠	356306	2.4
C7 x 2 7/16 Driveshaft ~	356182 ♣	58
C7 x 3 Driveshaft ~	356183	70
C7 x 3-7/16 Driveshaft ~	356184	80.3

Accessories for SCXT705E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
SCXT705 Cooling fan assembly ♣	—	—	272685	6.0
M720 Standard motor mount	140T—360T	12—20	356269	106.0
SCXT7S SCD Reducer belt guard	140T—360T	—	247476	84.0
M724L Long motor mount ♣ ●	140T—320T	24	272631	130.0
SCXT7S SCD Reducer belt guard for long motor mount	140T—320T	—	247149	100.0
TXT5—TXT9 Hydra-Lock desiccant breather kit HL1	—	—	964364	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT7E ABS Closed bushing cover	—	—	247683	0.5
SCXT705 Lube kit	—	—	LUBEKITTXT705	39.3
SCXT705 Auxiliary seal kit ♥	—	—	272727	8.0

TXT-E and SCXT-E are drilled and tapped to accept the ABS bushing cover bolts. Bushing covers fit the outboard side of the TXT-E reducer.

SCXT705E motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames													
			56, 140		180		210		250		280		320		360	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M720	17.5	21.7	22.1	25.6	23.1	26.5	23.8	27.3	24.8	28.3	25.6	29.0	26.6	30.0	27.5	31.0
M724L	23.5	27.7	27.3	31.1	28.3	32.1	29.1	32.9	30.1	33.9	30.8	34.7	31.8	35.6	—	—

♣ Made to order

† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.

♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.

◆ Provides for V-belt adjustment

● Drawing dimensions are noted as **

▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details

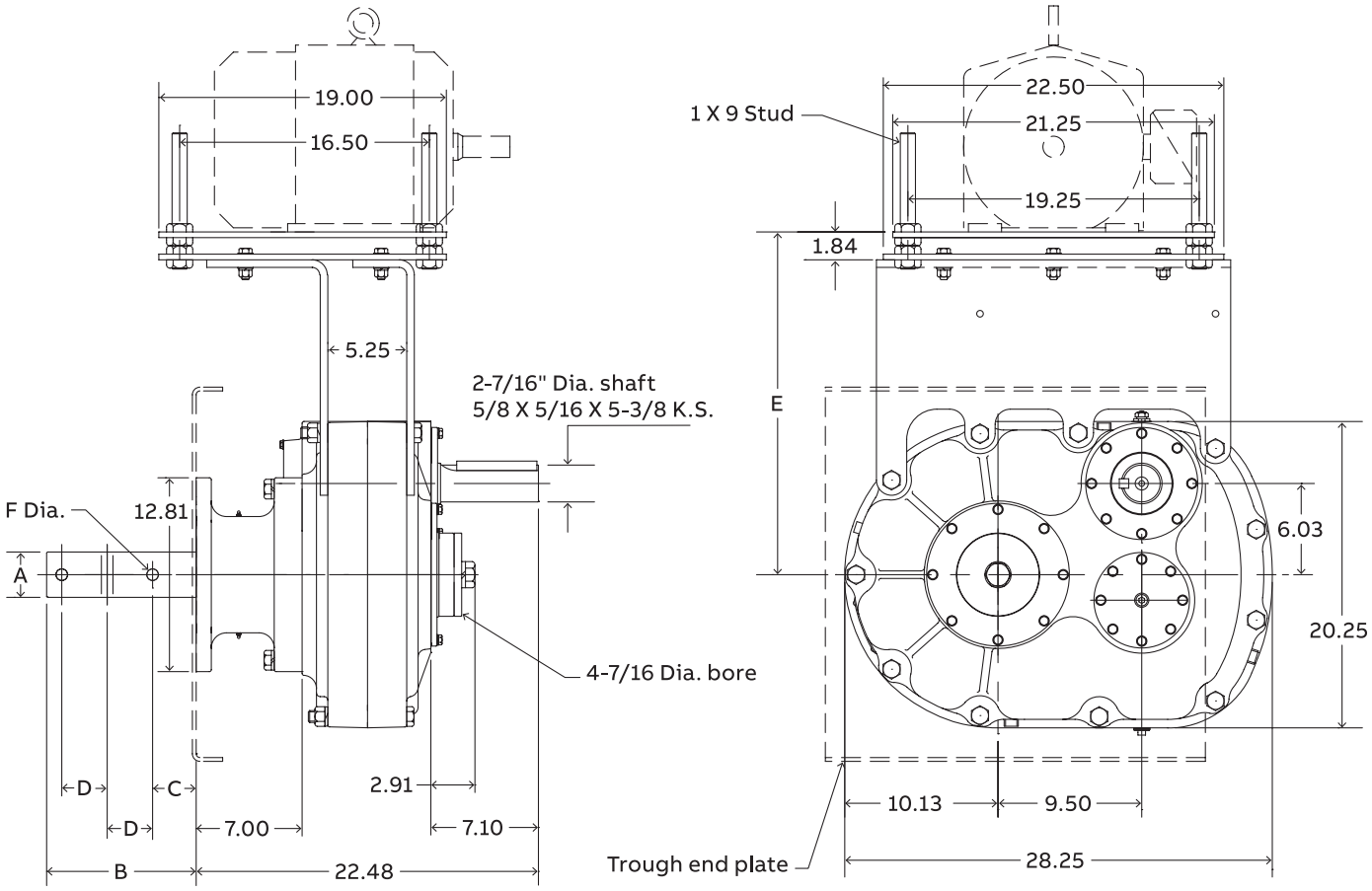
~ CEMA driveshaft and key is furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge.

■ Standard belt guards will not fit with this motor mount

♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer
SCXT style gearboxes are not compatible with backstops

SCXT8E

Double-reduction



CEMA Driveshafts ~

Driveshaft	Screw dia. (in)	A	B	C	D	F Dia.
C8 x 3	12—20	3.00	9.88	2.88	3.00	0.77
C8 x 3-7/16	18—24	3.44	13.13	3.88	4.00	0.89

All dimensions are in inches.

SCXT8E
Double-reduction

SCXT8E screw conveyor drives †

Reducers				
Size	**Part number**	**AGMA code**	**Ratio**	**Weight (lb)**
SCXT815E	E248464 ♣	407D15	15.08	633
SCXT825E	E248465 ♣	407D25	24.62	633

Description	Part number	Weight (lb)
C8 Adapter assembly ▲	248470 ♣	90
C8 x 3 Driveshaft ~	248473 ♣	88
C8 x 3-7/16 Driveshaft ~	248474 ♣	100

Accessories for SCXT8E reducers

Description	NEMA motor frame	Screw dia. (in)	Part number	Weight (lb)
SCXT8 Cooling fan assembly	—	—	272327	9.0
M824L Long motor mount ♣	210T—360T	12—20	248469	163.0
SCXT8D SCD Reducer belt guard ♣	210T—360T	—	248477	113.0
TXT5—TXT9 Hydra-Lock desiccant breather kit HL1	—	—	964364	2.0
TXT1—TXT9 OPTIFY Breather OB1	—	—	750020	2.0
TXT Enclosed breather system sm (1—10)	—	—	240050	2.0
OPTIFY Performance Sensor	—	—	820000	0.5
TXT8E ABS Closed bushing cover	—	—	248716	0.5
SCXT8 Lube kit	—	—	LUBEKITTXT8	40.5
SCXT8 Auxiliary seal kit ♥	—	—	248484	10.0

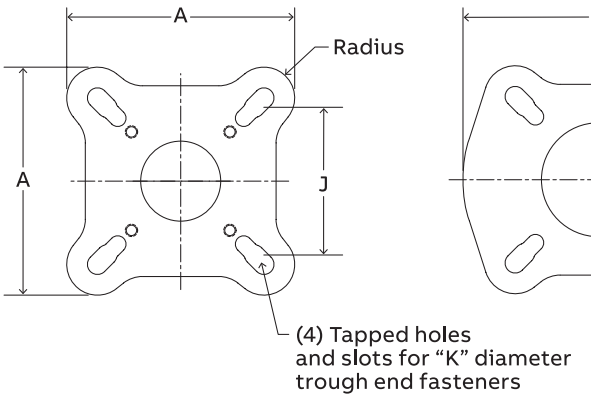
SCXT8E motor mount assembly dimensions

Motor mount	E ◆		V-belt drive center distances for various NEMA motor frames													
			56, 140		180		210		250		280		320		360	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min	Max	Min.	Max.	Min.	Max.	Min.	Max.
M824	22.7	28.6	—	—	—	—	23.3	28.4	24.3	29.4	25.1	30.1	26.0	31.1	27.0	32.1

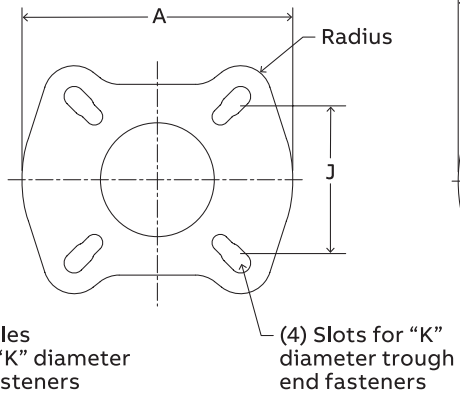
♣ Made to order
† For a complete SCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.
♠ AC Adjustable packing kit, with braided seals, is furnished if specified. It bolts to the C adapter.
◆ Provides for V-belt adjustment
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-110 for adapter bolt pattern details
~ CEMA driveshaft and key is furnished unless otherwise specified.
♥ See pages G3-163 and G3-164 for drill and tap information required to mount to reducer
SCXT style gearboxes are not compatible with backstops

Accessories
SCXT

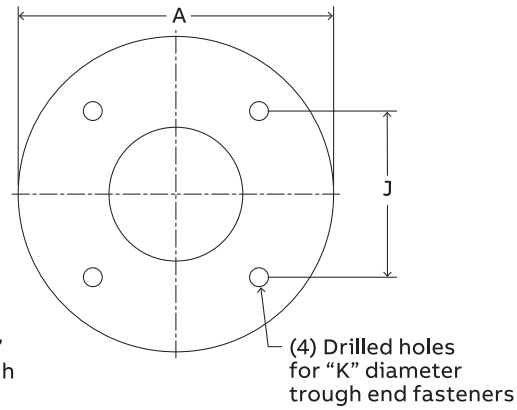
SCXT Sizes 1-6



SCXT Size 7



SCXT Size 8



Reducer size	Driveshaft diameter	J	K	A	Radius
SCXT 1	1-1/2	4	1/2	7.75	0.875
	2	5-1/8	5/8	7.75	0.875
	2-7/16	5-5/8	5/8	7.75	0.875
	3	6	3/4	7.75	0.875
SCXT 2	1-1/2	4	1/2	7.75	0.875
	2	5-1/8	5/8	7.75	0.875
	2-7/16	5-5/8	5/8	7.75	0.875
	3	6	3/4	7.75	0.875
SCXT 3	1-1/2	4	1/2	8.50	1.25
	2	5-1/8	5/8	8.50	1.25
	2-7/16	5-5/8	5/8	8.50	1.25
	3	6	3/4	8.50	1.25
SCXT 4	1-1/2	4	1/2	9.26	1.25
	2	5-1/8	5/8	9.26	1.25
	2-7/16	5-5/8	5/8	9.26	1.25
	3	6	3/4	9.26	1.25
	3-7/16	6-3/4	3/4	9.26	1.25
SCXT 5	2	5-1/8	5/8	9.26	1.25
	2-7/16	5-5/8	5/8	9.26	1.25
	3	6	3/4	9.26	1.25
	3-7/16	6-3/4	3/4	9.26	1.25
SCXT 6	2-7/16	5-5/8	5/8	9.26	1.25
	3	6	3/4	9.26	1.25
	3-7/16	6-3/4	3/4	9.26	1.25
SCXT 7	2-7/16	5-5/8	5/8	11.00	1.25
	3	6	3/4	11.00	1.25
	3-7/16	6-3/4	3/4	11.00	1.25
SCXT 8	3	6	3/4	12.81	n/a
	3-7/16	6-3/4	3/4	12.81	n/a

Optional drive shafts

SCXT

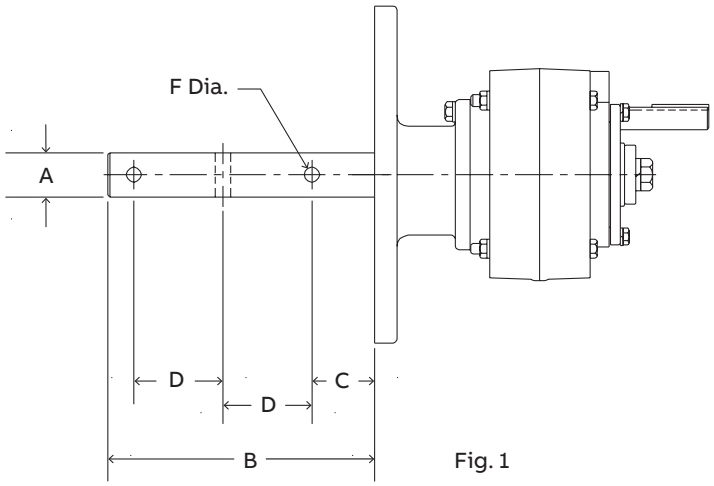


Fig. 1

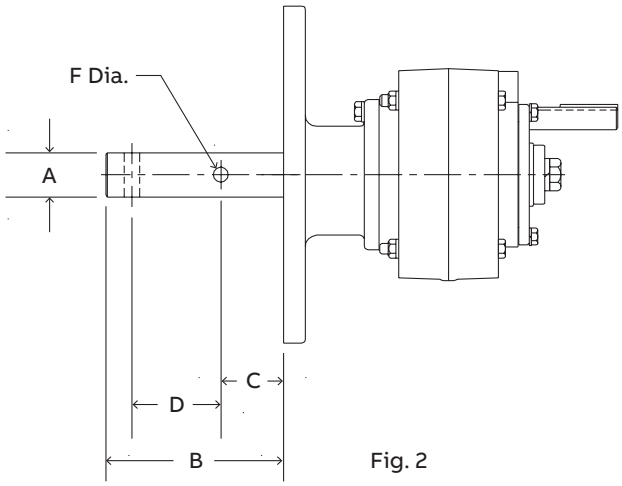


Fig. 2

Optional driveshafts for SCXT1A reducers ♣

Description	Driveshaft	Screw dia. (in)	Part number	Figure	A	B	C	D	F	Weight (lb)
Stainless-steel * driveshafts	C1 x 1-1/2	6—9	351147	2	1.50	6.00	2.13	3.00	0.52	7.20
	C1 x 2	9—12	351148	2	2.00	6.00	2.13	3.00	0.64	9.10
	C1 x 2-7/16	12—14	351149	2	2.44	6.69	2.75	3.00	0.64	12.50
	C1 x 3	12—20	351150	2	3.00	6.88	2.88	3.00	0.77	17.40
3-hole driveshafts	C1 x 1-1/2	6—9	351300	1	1.50	9.00	2.13	3.00	0.52	8.70
	C1 x 2	9—12	351301	1	2.00	9.00	2.13	3.00	0.64	11.80
	C1 x 2-7/16	12—14	351302	1	2.44	9.69	2.75	3.00	0.64	16.40
	C1 x 3	12—20	351303	1	3.00	9.88	2.88	3.00	0.77	23.40
Stainless-steel * 3-hole driveshafts	C1 x 1-1/2	6—9	351025	1	1.50	9.00	2.13	3.00	0.52	8.70
	C1 x 2	9—12	351026	1	2.00	9.00	2.13	3.00	0.64	11.80
	C1 x 2-7/16	12—14	351027	1	2.44	9.69	2.75	3.00	0.64	16.40
	C1 x 3	12—20	351028	1	3.00	9.88	2.88	3.00	0.77	23.40

Optional driveshafts for SCXT2A reducers ♣

Description	Driveshaft	Screw dia. (in)	Part number	Figure	A	B	C	D	F	Weight (lb)
Stainless-steel * driveshafts	C2 x 1-1/2	6—9	352160	2	1.50	6.00	2.13	3.00	0.52	11.40
	C2 x 2	9—12	352161	2	2.00	6.00	2.13	3.00	0.64	13.80
	C2 x 2-7/16	12—14	352162	2	2.44	6.69	2.75	3.00	0.64	17.30
	C2 x 3	12—20	352163	2	3.00	6.88	2.88	3.00	0.77	19
3-hole driveshafts	C2 x 1-1/2	6—9	351305	1	1.50	9.00	2.13	3.00	0.52	12.90
	C2 x 2	9—12	351306	1	2.00	9.00	2.13	3.00	0.64	16.50
	C2 x 2-7/16	12—14	351307	1	2.44	9.69	2.75	3.00	0.64	21.20
	C2 x 3	12—20	351308	1	3.00	9.88	2.88	3.00	0.77	25
Stainless-steel * 3-hole driveshafts	C2 x 1-1/2	6—9	352186	1	1.50	9.00	2.13	3.00	0.52	12.90
	C2 x 2	9—12	352187	1	2.00	9.00	2.13	3.00	0.64	16.50
	C2 x 2-7/16	12—14	352188	1	2.44	9.69	2.75	3.00	0.64	21.20
	C2 x 3	12—20	352189	1	3.00	9.88	2.88	3.00	0.77	25

♣ Made to order

* Supplied as #316 stainless-steel.

Optional drive shafts

SCXT

Optional driveshafts for SCXT3B and SCXT305A reducers ♣

Description	Driveshaft	Screw dia. (in)	Part number	Figure	A	B	C	D	F	Weight (lb)
Stainless-steel * driveshafts	C3A x 1-1/2	9	243446	2	1.50	6.00	2.13	3.00	0.52	15
	C3A x 2	9—12	243447	2	2.00	6.00	2.13	3.00	0.64	16
	C3A x 2-7/16	12—14	243448	2	2.44	6.69	2.75	3.00	0.64	19.50
	C3A x 3	12—20	243449	2	3.00	6.88	2.88	3.00	0.77	26
3-hole driveshafts	C3A x 1-1/2	9	243016	1	1.50	9.00	2.13	3.00	0.52	16.50
	C3A x 2	9—12	243017	1	2.00	9.00	2.13	3.00	0.64	18.70
	C3A x 2-7/16	12—14	243018	1	2.44	9.69	2.75	3.00	0.64	23.40
	C3A x 3	12—20	243019	1	3.00	9.88	2.88	3.00	0.77	32
Stainless-steel * 3-hole driveshafts	C3A x 1-1/2	9	353180	1	1.50	9.00	2.13	3.00	0.52	16.50
	C3A x 2	9—12	353181	1	2.00	9.00	2.13	3.00	0.64	18.70
	C3A x 2-7/16	12—14	353182	1	2.44	9.69	2.75	3.00	0.64	23.40
	C3A x 3	12—20	353183	1	3.00	9.88	2.88	3.00	0.77	32

Optional driveshafts for SCXT4B and SCXT405A reducers ♣

Description	Driveshaft	Screw dia. (in)	Part number	Figure	A	B	C	D	F	Weight (lb)
Stainless-steel * driveshafts	C4A x 1-1/2	9	244680	2	1.50	6.00	2.13	3.00	0.52	19
	C4A x 2	9—12	244681	2	2.00	6.00	2.13	3.00	0.64	20.80
	C4A x 2-7/16	12—14	244682	2	2.44	6.69	2.75	3.00	0.64	24.30
	C4A x 3	12—20	244683	2	3.00	6.88	2.88	3.00	0.77	29.20
	C4A x 3-7/16	18—24	244684	2	3.44	9.13	3.88	4.00	0.89	39.30
3-hole driveshafts	C4A x 1-1/2	9	244494	1	1.50	9.00	2.13	3.00	0.52	20.50
	C4A x 2	9—12	244496	1	2.00	9.00	2.13	3.00	0.64	23.50
	C4A x 2-7/16	12—14	244497	1	2.44	9.69	2.75	3.00	0.64	28.20
	C4A x 3	12—20	244498	1	3.00	9.88	2.88	3.00	0.77	35.20
	C4A x 3-7/16	18—24	244499	1	3.44	14.13	3.88	4.00	0.89	49.80
Stainless-steel * 3-hole driveshafts	C4A x 1-1/2	9	354351	1	1.50	9.00	2.13	3.00	0.52	20.50
	C4A x 2	9—12	354352	1	2.00	9.00	2.13	3.00	0.64	23.50
	C4A x 2-7/16	12—14	354353	1	2.44	9.69	2.75	3.00	0.64	28.20
	C4A x 3	12—20	354354	1	3.00	9.88	2.88	3.00	0.77	35.20
	C4A x 3-7/16	18—24	354355	1	3.44	14.13	3.88	4.00	0.89	49.80

Optional driveshafts for SCXT5C and SCXT505A reducers ♣

Description	Driveshaft	Screw dia. (in)	Part number	Figure	A	B	C	D	F	Weight (lb)
Stainless-steel * driveshafts	C5B x 2	9—12	245651	2	2.00	6.00	2.13	3.00	0.64	29.40
	C5B x 2-7/16	12—14	245652	2	2.44	6.69	2.75	3.00	0.64	33
	C5B x 3	12—20	245653	2	3.00	6.88	2.88	3.00	0.77	37.90
	C5B x 3-7/16	18—24	245654	2	3.44	9.13	3.88	4.00	0.89	48.30
3-hole driveshafts	C5B x 2	9—12	245474	1	2.00	9.00	2.13	3.00	0.64	32.10
	C5B x 2-7/16	12—14	245476	1	2.44	9.69	2.75	3.00	0.64	36.90
	C5B x 3	12—20	245477	1	3.00	9.88	2.88	3.00	0.77	43.90
	C5B x 3-7/16	18—24	245478	1	3.44	14.13	3.88	4.00	0.89	58.80
Stainless-steel * 3-hole driveshafts	C5B x 2	9—12	355225	1	2.00	9.00	2.13	3.00	0.64	32.10
	C5B x 2-7/16	12—14	355226	1	2.44	9.69	2.75	3.00	0.64	36.90
	C5B x 3	12—20	355227	1	3.00	9.88	2.88	3.00	0.77	43.90
	C5B x 3-7/16	18—24	355228	1	3.44	14.13	3.88	4.00	0.89	58.80

♣ Made to order

* Supplied as #316 stainless-steel.

Optional driveshafts

SCXT

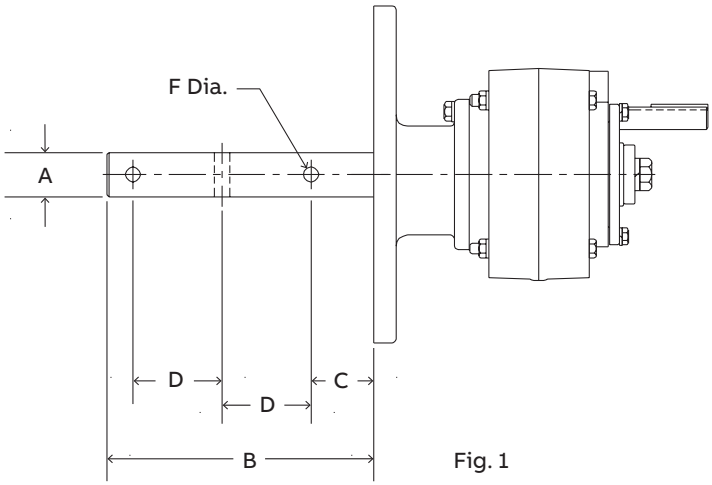


Fig. 1

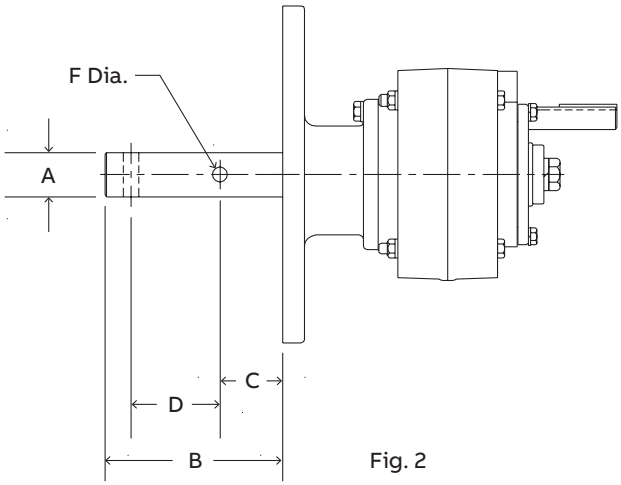


Fig. 2

Optional driveshafts for SCXT6A reducers ♣

Description	Driveshaft	Screw dia. (in)	Part number	Figure	A	B	C	D	F	Weight (lb)
Stainless-steel * driveshafts	C6 x 2-7/16	12—14	356014	2	2.44	6.69	2.75	3.00	0.64	47.7
	C6 x 3	12—20	356015	2	3.00	6.88	2.88	3.00	0.77	52.7
	C6 x 3-7/16	18—24	356016	2	3.44	9.13	3.88	4.00	0.89	63.0
3-hole driveshafts	C6 x 2-7/16	12—14	351327	1	2.44	9.69	2.75	3.00	0.64	51.6
	C6 x 3	12—20	351328	1	3.00	9.88	2.88	3.00	0.77	58.7
	C6 x 3-7/16	18—24	351329	1	3.44	14.13	3.88	4.00	0.89	73.5
Stainless-steel * 3-hole driveshafts	C6 x 2-7/16	12—14	356275	1	2.44	9.69	2.75	3.00	0.64	51.6
	C6 x 3	12—20	356276	1	3.00	9.88	2.88	3.00	0.77	58.7
	C6 x 3-7/16	18—24	356277	1	3.44	14.13	3.88	4.00	0.89	73.5

Optional driveshafts for SCXT7A reducers ♣

Description	Driveshaft	Screw dia. (in)	Part number	Figure	A	B	C	D	F	Weight (lb)
Stainless-steel * driveshafts	C7 x 2-7/16	12—14	356240	2	2.44	6.69	2.75	3.00	0.64	58.0
	C7 x 3	12—20	356241	2	3.00	6.88	2.88	3.00	0.77	70.0
	C7 x 3-7/16	18—24	356242	2	3.44	9.13	3.88	4.00	0.89	80.3
3-hole driveshafts	C7 x 2-7/16	12—14	351332	1	2.44	9.69	2.75	3.00	0.64	61.9
	C7 x 3	12—20	351333	1	3.00	9.88	2.88	3.00	0.77	76.0
	C7 x 3-7/16	18—24	351334	1	3.44	14.13	3.88	4.00	0.89	90.8
Stainless-steel* 3-hole driveshafts	C7 x 2-7/16	12—14	356281	1	2.44	9.69	2.75	3.00	0.64	61.9
	C7 x 3	12—20	356282	1	3.00	9.88	2.88	3.00	0.77	76.0
	C7 x 3-7/16	18—24	356283	1	3.44	14.13	3.88	4.00	0.89	90.8

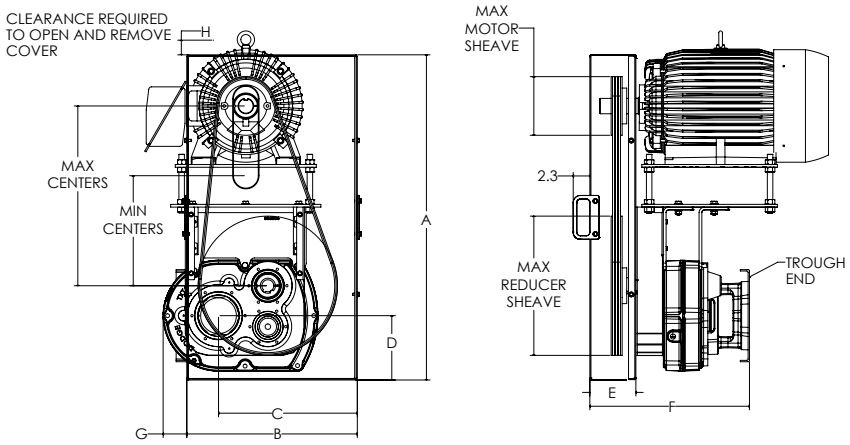
♣ Made to order

* Supplied as #316 stainless-steel.

Note: See page G3-108 and G3-109 for dimensions and part numbers for driveshafts available for SCXT8A screw conveyor drives.

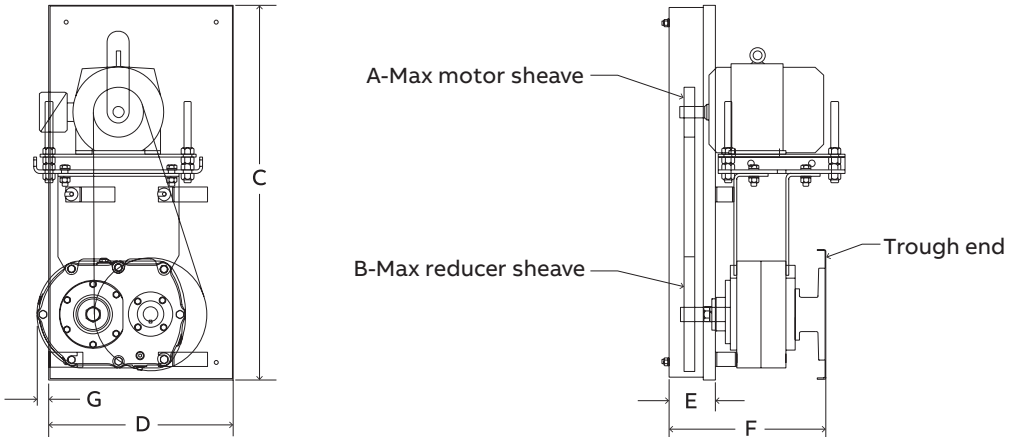
Belt guards

SCXT – Standard motor mount



Belt guards for double-reduction SCXT reducers (9, 15, 25:1) with standard motor mounts

Reducer size	Part number	Center distance		Max motor sheave	Max reducer sheave	A	B	C	D	E	F	G	H
		Min	Max										
SCXT1E	241489	14.3	18.2	5	10	30.0	14.1	7.8	8.3	4.28	13.28	0.55	2.00
SCXT2E	242459	15.7	19.6	5	11	30.0	14.1	7.1	4.0	4.34	13.75	0.84	2.00
SCXT3E	243416 ▲	15.8	21.2	6	12	35.6	16.3	7.9	7.5	4.28	14.91	0.62	2.00
SCXT4E	244489	16.9	21.9	7	15	39.1	18.3	8.1	8.1	4.28	16.52	1.14	2.00
SCXT5E	245495 ▲	16.7	25.2	7	14	39.1	18.3	8.9	9.0	4.28	16.99	2.81	2.00
SCXT6E	246476	17.0	24.9	8	19	44.4	23.3	12.2	12.9	6.28	21.59	3.23	2.00
SCXT7E	247474	18.6	26.0	10	19	44.4	23.3	11.1	10.8	6.00	23.10	5.46	2.00



Belt guards for single-reduction SCXT reducers (5:1) with standard motor mounts

Reducer size	Belt guard size	Part number	Motor mount number	Weight (lb)	NEMA motor frame	Center distance		A	B	C	D	E	F	G
						Min.	Max.							
SCXT105E	SCXT1S	242489	M 112	30	56T—215T	15.4	20.6	5.0 ■	12.0	31.0	13.50	3.50	12.50	0.38
SCXT205E	SCXT2S	242491	M 214	34	56T—215T	17.0	22.2	6.0 ■	12.0	33.0	13.50	3.75	13.50	1.25
SCXT305E	SCXT3S	243418 ▲	M 316	40	56T—215T	18.2	24.4	7.0	12.0	35.0	13.50	4.00	14.63	2.38
SCXT405E	SCXT4S	244491	M 418	50	143T—286T	19.6	27.2	8.0	12.0	40.0	14.50	5.00	16.75	3.63
SCXT505E	SCXT5S	245497 ▲	M 518	70	143T—286T	19.7	28.2	8.0	12.0	40.0	14.50	5.50	18.91	5.68
SCXT605E	SCXT6S	246478	M 620	77	143T—326T	21.1	29.6	10.0	16.0	45.0	18.00	6.00	21.44	5.97
SCXT705E	SCXT7S	247476	M 720	84	143T—365T	22.1	31.0	10.0	16.0	45.5	19.00	6.00	23.53	9.25

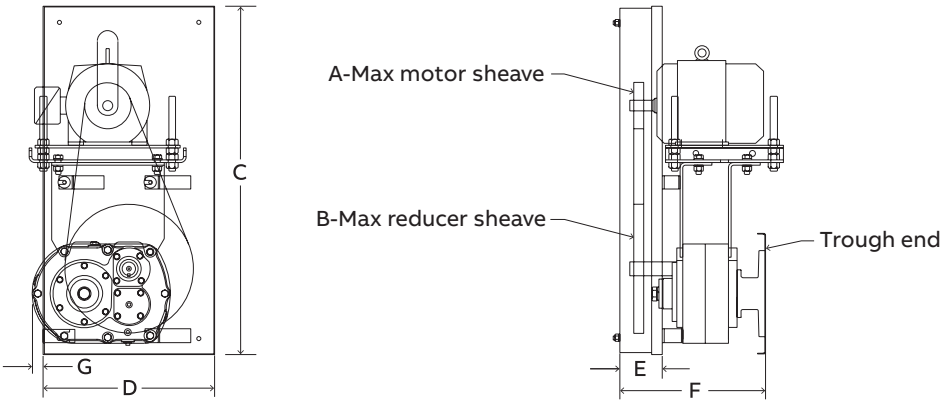
♣ Made to order

▲ These belt guards do not fit the larger frame, higher hp motor mounts in SCXT Selection and dimension pages. Consult Dodge for special belt guard.

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

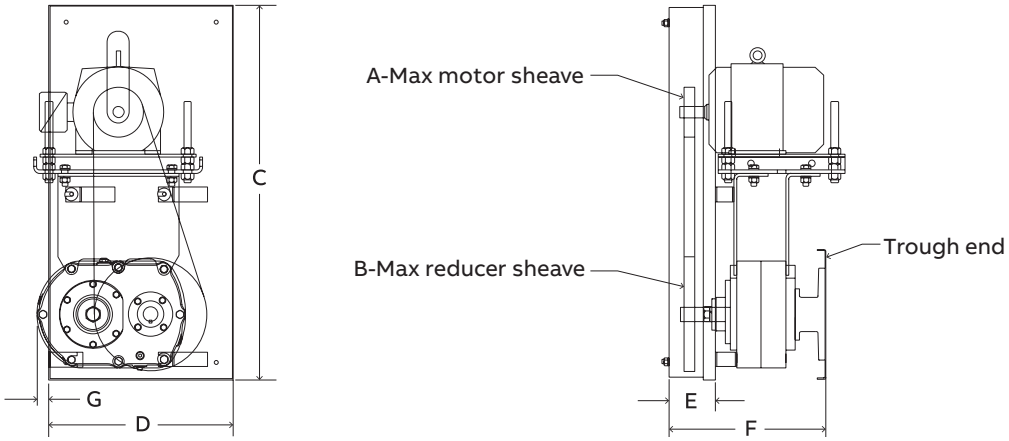
Belt guards

SCXT – Long motor mount



Belt guards for double-reduction SCXT reducers (9, 15, 25:1) with long motor mounts

Reducer size	Belt guard size	Part number	Motor mount number	Weight (lb)	NEMA motor frame	Center distance		A	B	C	D	E	F	G
						Min.	Max.							
SCXT1E	SCXT1DLMM	241149	M120L	26	56T—215T	19.5	25.0	5.0	12.0	33.5	13.0	3.50	12.50	1.00
SCXT2E	SCXT2DLMM	242223	M220L	37	56T—215T	20.9	26.0	5.0	12.0	36.0	14.0	3.75	13.50	0.875
SCXT3E	SCXT3DLMM	243154 ▲	M320L	45	56T—215T	21.8	27.0	6.0	14.0	38.0	16.0	4.00	14.63	1.06
SCXT4E	SCXT4DLMM	244152 ▲	M424L	50	143T—286T	23.2	30.4	7.0	15.0	43.0	17.0	5.00	16.75	1.78
SCXT5E	SCXT5DLMM	245103 ▲	M524L	52	143T—286T	22.9	30.9	7.0	15.0	43.0	18.0	4.25	18.91	3.25
SCXT6E	SCXT6DLMM	246148	M624L	65	143T—326T	23.3	31.4	8.0	18.0	47.0	20.0	6.00	21.44	4.38
SCXT7E	SCXT7DLMM	247153 ▲	M724L	80	143T—326T	23.2	30.5	10.0	20.0	49.0	23.0	6.00	23.53	6.25
SCXT8E	SCXT8DLMM	248477 ♣	M824L	113	210T—360T	23.3	32.1	12.0	25.0	53.0	28.0	6.50	24.81	5.62



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

Reducer size	Belt guard size	Part number	Motor mount number	Weight (lb)	NEMA motor frame	Center distance		A	B	C	D	E	F	G
						Min.	Max.							
SCXT105E	SCXT1SLMM	241142	M120L	35	56T—215T	21.4	26.6	5.0 ■	12.0	37.0	13.5	3.50	12.50	0.38
SCXT205E	SCXT2SLMM	242114	M220L	40	56T—215T	23.3	28.2	6.0 ■	12.0	39.0	13.5	3.75	13.50	1.25
SCXT305E	SCXT3SLMM	243167 ▲	M320L	45	56T—215T	24.2	29.4	7.0	12.0	41.0	13.5	4.00	14.63	2.38
SCXT405E	SCXT4SLMM	244167 ▲	M424L	55	143T—286T	25.9	33.2	8.0	12.0	46.0	14.5	5.00	16.75	3.63
SCXT505E	SCXT5SLMM	245015 ▲	M524L	70	143T—286T	26.0	33.2	8.0	12.0	46.0	14.5	5.50	18.91	5.68
SCXT605E	SCXT6SLMM	246142	M624L	82	143T—326T	27.4	35.5	10.0	16.0	51.0	18.0	6.00	21.44	5.97
SCXT705E	SCXT7SLMM	247149	M724L	90	143T—326T	28.2	35.6	10.0	16.0	51.5	19.0	6.00	23.53	9.25

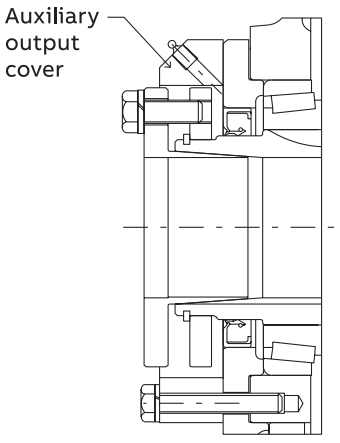
♣ Made to order

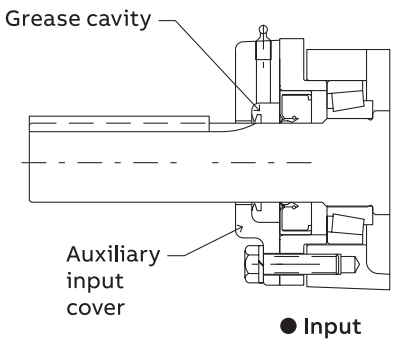
▲ These belt guards do not fit the larger frame, higher hp motor mounts in SCXT Selection and dimension pages. Consult Dodge for special belt guard.

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

Auxiliary seal kits

SCXT





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 through 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
TXT1	9, 15, 25	272515
TXT1	5	272521
TXT2	9, 15, 25	272446
TXT2	5	272459
TXT3	9, 15, 25	243577
TXT3	5	253186
TXT4	9, 15, 25	244676
TXT4	5	254267
TXT5	9, 15, 25	245635
TXT5	5	255230

Reducer size	Nominal ratio	Part number
TXT6	5, 9, 15, 25	272450
TXT7	5, 9, 15, 25	272451
TXT8	5, 15, 25	272452
TXT9	5, 15, 26	272453
TXT10	15, 24	272454
TXT12	15, 25	272455
TDT13	25	272456
TDT14	25	272457 ♣
TDT15	30	272458 ♣

♣ Made to order

■ See pages G3-163 and G3-164 for dimensions to drill and tap reducer housing for mounting of auxiliary seal kit. Dodge will install upon request.

~ For taper-bushed reducers

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

Hydroil Torque-Arm (HXT)
Overview



HXT

The HXT 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.

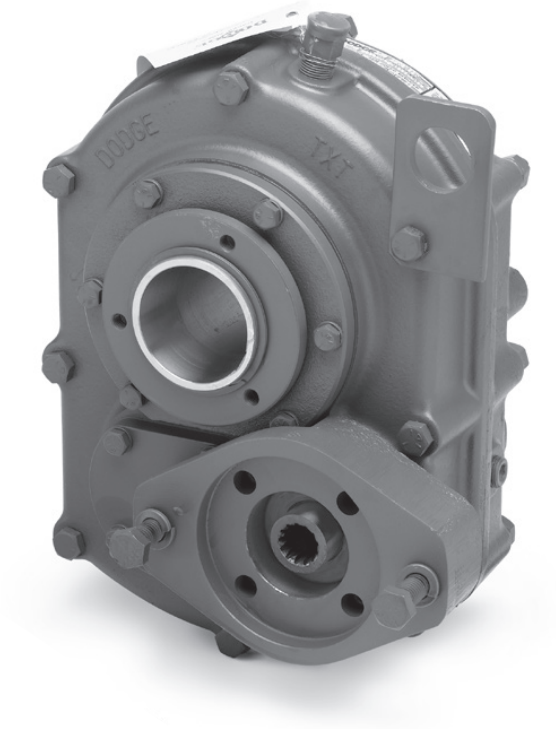
All gearing shall be of helical design, case carburized and precision finished to insure a high surface durability with a resilient tooth core for impact resistance and optimum service life. Gears shall be supported between bearings to maintain proper alignment of gear meshes, to maximize load carrying 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.

Features and benefits
HXT



HXT reducers with infinitely adjustable speed and torque

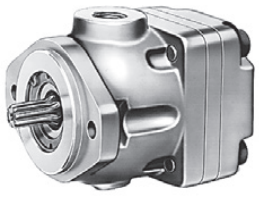
This is a modified version of the TA reducer with the same quality features and ease of installation.

A hydraulic motor powers the HXT 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.

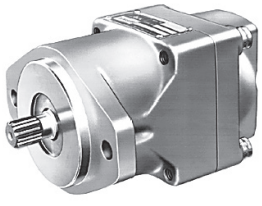
Users can provide flexible control of the HXT drive by selecting proper auxiliary equipment. Output speeds of the reducer are infinitely adjustable through the use of regulating valves in the hydraulic circuit. Both speed and torque can be adjusted to meet the requirements of the driven machine which 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.

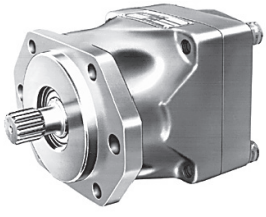
Hydroil vane motors are a superior single stage vane type fluid motor. A series of internal ports admit oil to and carry it from the power element. Complete hydraulic balance of the assembly contributes to the mechanical efficiency and long life of these motors as well as to their unusually quiet operation.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



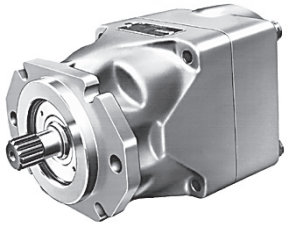
Hydroil vane motor A10 and A20



Hydroil vane motor B30



Hydroil vane motor B40



Hydroil vane motor B50

Selection procedures
HXT

When to use easy selection

The easy selection tables for HXT shaft-mount reducers are for hydraulic motor selections up to approximately horsepower with output speeds up to 400 rpm, using AGMA recommended application class numbers. For extreme repetitive shock loads, consult Dodge Application Engineering, +1 864 284 5700.

How to select

Step 1: Determine class of service

See the table on page REF-3 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 two times motor horsepower rating. If it exceeds this amount it should be divided by two 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 time the 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 four times motor horsepower rating. If it exceeds this amount it should be divided by four 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 G3-120 through G3-134. From Selection Table I, II, or III read the reducer size for the application horsepower and output speed. Also compare the reducer/motor running and starting torque, running pressure and flow rate with that required for the application. See the table on page G3-133 for maximum hydraulic motor starting pressure for Hydroil vane motors.

Step 3: Compare hollow shaft bore

With the size of the driven shaft. All TA taper-bushed reducers require bushings. Refer to TXT reducer pages for available bushings. If the driven shaft is larger than the bore of the selected reducer, the shaft must be machined to the proper size, or select a larger reducer. Check driven shaft and key for strength.

Step 4: Check dimensions

See “Selection and dimensions” sections, pages G3-136 through G3-143 for reducer dimensions, weights and part numbers. See “Engineering and technical” section, pages G3-162 for reducer and Torque-Arm rod mounting positions.

Step 5: Select a Hydroil vane motor

See “Selection and dimensions” pages for listing of Hydroil vane motors required to drive each size and ratio of HXT reducer. See page G3-143 for dimensions and part numbers. Note: 100 rpm is minimum speed for Hydroil vane motors.

Example:
Easy selection method - HXT reducer

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

Step 1: Determine class of service From the table on page G1-7, locate “bucket elevators, heavily loaded” for over 10 hours per day. This load will be classified as a Class II application.

Step 2: Determine reducer size From the Class II Selection table on page G3-122, find the 30 rpm output column at the top of the table. Read down to the hp rating of 3 hp or greater. At 3.6 hp, trace to the far left column to find that the basic reducer size for the application is an HXT3. Either an HXT315 or an HXT325 may be used, depending on the starting torque requirements.

Step 3: Compare hollow shaft bore of an HXT315/325 with the application driven shaft diameter. Per page G3-136, 2-3/16” is the maximum bore available for this size reducer, so it will work in this application. Select reducer bushing from part numbers listed with TXT reducers on page G3-31. Be sure to check driven shaft and key for strength.

Step 4: Check dimensions and weights See Selection and dimensions section, page G3-136, for reducer dimensions, weights, part numbers and other pertinent drive dimensions. See “Engineering and technical” section, pages G3-162 for information on reducer and torque-arm rod mounting positions.

Step 5: Select a Hydroil vane motor See Selection and dimensions page G3-136. Trace from reducer size HXT315 right to column labeled Hydroil motor. It must be driven by a size B30 Hydroil vane motor. Likewise a reducer size HXT325 is designed to be driven by an A20 Hydroil vane motor. See page G3-141 for the motor part numbers and dimensions.

Class I HXT

Easy selection

HXT115—HXT725 – double-reduction

Reducer size	Requirements ~	Output speed												
		10	15	20	25	30	35	40	45	50	55	60	65	70
HXT115	Output hp (run)	0.6	0.9	1.2	1.4	1.7	1.9	2.2	2.4	2.7	2.9	3.1	3.3	3.6
	Running torque (lb-in)	4,025	3,776	3,651	3,577	3,527	3,491	3,465	3,396	3,342	3,298	3,260	3,229	3,202
	Starting torque (lb-in)	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025
	Running pressure (psi)	1,685	1,581	1,529	1,498	1,477	1,462	1,451	1,422	1,399	1,381	1,365	1,352	1,341
	Flow rate (gpm)	2.0	2.3	2.7	3.0	3.4	3.8	4.1	4.5	4.9	5.2	5.6	6.0	6.3
HXT125	Output hp (run)	0.5	0.8	1.1	1.3	1.6	1.9	2.2	2.4	2.7	2.9	3.1	3.3	3.6
	Running torque (lb-in)	3,403	3,403	3,403	3,403	3,403	3,403	3,403	3,396	3,342	3,298	3,260	3,229	3,202
	Starting torque (lb-in)	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868
	Running pressure (psi)	2,000	2,000	2,000	2,000	2,000	2,000	2,000	1,996	1,964	1,938	1,916	1,898	1,882
	Flow rate (gpm)	1.5	1.8	2.1	2.3	2.6	2.9	3.2	3.4	3.7	3.9	4.2	4.5	4.7
HXT215	Output hp (run)	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.1	3.5	3.8	4.2	4.5	4.9
	Running torque (lb-in)	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387
	Starting torque (lb-in)	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697
	Running pressure (psi)	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
	Flow rate (gpm)	2.2	2.6	2.9	3.3	3.6	4.0	4.3	4.7	5.0	5.4	5.7	6.1	6.4
HXT225	Output hp (run)	1.1	1.6	2.1	2.6	3.0	3.5	4.0	4.4	4.8	5.2	5.6	6.0	6.5
	Running torque (lb-in)	7,245	6,824	6,613	6,486	6,402	6,342	6,297	6,171	6,070	5,988	5,919	5,861	5,811
	Starting torque (lb-in)	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152
	Running pressure (psi)	1,985	1,870	1,812	1,777	1,754	1,737	1,725	1,691	1,663	1,640	1,622	1,606	1,592
	Flow rate (gpm)	2.7	3.2	3.7	4.3	4.8	5.4	6.0	6.5	7.1	7.6	8.2	8.8	9.3
HXT315	Output hp (run)	1.8	2.6	3.4	4.3	5.1	5.9	6.8	7.4	8.1	8.7	9.4	10.0	10.7
	Running torque (lb-in)	11,098	10,894	10,791	10,730	10,689	10,660	10,638	10,379	10,171	10,001	9,860	9,740	9,637
	Starting torque (lb-in)	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190
	Running pressure (psi)	1,523	1,495	1,481	1,473	1,467	1,463	1,460	1,425	1,396	1,373	1,353	1,337	1,323
	Flow rate (gpm)	4.6	5.7	6.9	8.0	9.2	10.3	11.5	12.6	13.7	14.8	15.9	17.1	18.2
HXT325	Output hp (run)	1.2	1.8	2.4	3.0	3.7	4.3	4.9	5.5	6.1	6.7	7.3	7.9	8.5
	Running torque (lb-in)	7,689	7,689	7,689	7,689	7,689	7,689	7,689	7,689	7,689	7,689	7,689	7,689	7,689
	Starting torque (lb-in)	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479
	Running pressure (psi)	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
	Flow rate (gpm)	2.7	3.4	4.0	4.6	5.2	5.8	6.4	7.0	7.6	8.3	8.9	9.5	10.1
HXT415	Output hp (run)	2.6	3.9	5.1	6.3	7.5	8.7	9.9	11.0	12.1	13.1	14.2	15.3	16.3
	Running torque (lb-in)	16,676	16,229	16,005	15,871	15,781	15,717	15,669	15,424	15,227	15,066	14,932	14,818	14,721
	Starting torque (lb-in)	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479
	Running pressure (psi)	2,251	2,191	2,161	2,142	2,130	2,122	2,115	2,082	2,056	2,034	2,016	2,000	1,987
	Flow rate (gpm)	5.7	6.8	8.0	9.1	10.3	11.4	12.6	13.7	14.9	16.0	17.2	18.30	19.5
HXT425	Output hp (run)	2.6	3.9	5.1	6.3	7.5	8.7	9.9	11.0	12.1	13.1	14.2	15.30	16.3
	Running torque (lb-in)	16,676	16,229	16,005	15,871	15,781	15,717	15,669	15,424	15,227	15,066	14,932	14,818	14,721
	Starting torque (lb-in)	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164
	Running pressure (psi)	1,397	1,360	1,341	1,330	1,322	1,317	1,313	1,292	1,276	1,262	1,251	1,241	1,233
	Flow rate (gpm)	5.9	7.7	9.6	11.5	13.4	15.3	17.2	19.0	20.9	22.8	24.7	26.6	28.5

~ See page G3-135 for definition of requirements.

Class I HXT

Easy selection

HXT115—HXT725 – double-reduction

Reducer size	Requirements ~	Output speed													
		75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT115	Output hp (run)	3.8	4.0	4.2	4.5	4.7	4.9	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.50
	Running torque (lb-in)	3,179	3,158	3,140	3,124	3,099	3,076	3,056	3,037	3,020	3,005	2,983	2,964	2,945	2,929
	Starting torque (lb-in)	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025
	Running pressure (psi)	1,331	1,322	1,315	1,308	1,298	1,288	1,280	1,272	1,265	1,258	1,249	1,241	1,233	1,226
	Flow rate (gpm)	6.7	7.1	7.5	7.8	8.2	8.6	9.0	9.3	9.7	10.1	10.5	10.8	11.2	11.6
HXT125	Output hp (run)	3.8	4.0	4.2	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	3,179	3,158	3,140	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	2,868	2,868	2,868	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	1,868	1,856	1,845	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	5.0	5.2	5.5	—	—	—	—	—	—	—	—	—	—	—
HXT215	Output hp (run)	5.2	5.6	5.9	6.3	6.6	7.0	7.3	7.7	8.0	8.4	8.7	9.0	9.4	9.7
	Running torque (lb-in)	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387
	Starting torque (lb-in)	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697
	Running pressure (psi)	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
	Flow rate (gpm)	6.8	7.1	7.5	7.8	8.2	8.5	8.9	9.2	9.6	9.9	10.3	10.6	11.0	11.3
HXT225	Output hp (run)	6.9	7.3	7.7	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	5,768	5,730	5,697	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	6,152	6,152	6,152	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	1,580	1,570	1,561	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	9.9	10.5	11.1	—	—	—	—	—	—	—	—	—	—	—
HXT315	Output hp (run)	11.4	12.0	12.7	13.3	13.8	14.3	14.8	15.3	15.8	15.9	15.7	15.5	15.2	15.0
	Running torque (lb-in)	9,549	9,471	9,402	9,341	9,172	9,020	8,883	8,758	8,644	8,351	7,916	7,515	7,096	6,753
	Starting torque (lb-in)	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,078	16,862	16,663	16,478	16,306
	Running pressure (psi)	1,311	1,300	1,291	1,282	1,259	1,238	1,219	1,202	1,186	1,146	1,087	1,031	974	927
	Flow rate (gpm)	19.4	20.5	21.7	22.8	23.9	25.1	26.2	27.3	28.5	29.6	30.6	31.7	32.8	33.9
HXT325	Output hp (run)	9.1	9.8	10.4	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	7,689	7,689	7,689	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	6,479	6,479	6,479	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	2,000	2,000	2,000	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	10.7	11.3	11.9	—	—	—	—	—	—	—	—	—	—	—
HXT415	Output hp (run)	17.4	18.5	19.6	20.6	21.5	22.0	21.5	21.0	20.5	20.0	19.5	19.0	18.5	18.0
	Running torque (lb-in)	14,636	14,563	14,497	14,440	14,295	13,866	12,905	12,032	11,235	10,504	9,832	9,211	8,637	8,103
	Starting torque (lb-in)	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479
	Running pressure (psi)	1,976	1,966	1,957	1,949	1,930	1,872	1,742	1,624	1,517	1,418	1,327	1,244	1,166	1,094
	Flow rate (gpm)	20.7	21.8	23.0	24.1	25.3	26.4	27.4	28.4	29.4	30.4	31.5	32.5	33.6	34.7
HXT425	Output hp (run)	17.4	18.5	19.6	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	14,636	14,563	14,497	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	28,164	28,164	28,164	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	1,226	1,220	1,215	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	30.3	32.2	34.1	—	—	—	—	—	—	—	—	—	—	—

~ See page G3-135 for definition of requirements.

Class I HXT

Easy selection

HXT115—HXT725 – double-reduction

Reducer size	Requirements ~	Output speed												
		10	15	20	25	30	35	40	45	50	55	60	65	70
HXT515	Output hp (run)	4.6	6.5	8.5	10.5	12.5	14.4	16.4	17.9	19.3	20.8	22.3	23.7	24.8
	Running torque (lb-in)	28,751	27,474	26,835	26,451	26,196	26,013	25,876	25,046	24,381	23,838	23,384	23,001	22,329
	Starting torque (lb-in)	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924
	Running pressure (psi)	2,125	2,031	1,983	1,955	1,936	1,923	1,913	1,851	1,802	1,762	1,728	1,700	1,650
	Flow rate (gpm)	10.0	11.9	13.9	16.0	18.1	20.2	22.3	24.3	26.3	28.4	30.5	32.5	34.6
HXT525	Output hp (run)	4.6	6.5	8.5	10.5	12.5	14.4	16.4	17.9	19.3	20.8	22.3	23.7	24.8
	Running torque (lb-in)	28,751	27,474	26,835	26,451	26,196	26,013	25,876	25,046	24,381	23,838	23,384	23,001	22,329
	Starting torque (lb-in)	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528
	Running pressure (psi)	2,298	2,195	2,144	2,114	2,093	2,079	2,068	2,001	1,948	1,905	1,869	1,838	1,784
	Flow rate (gpm)	7.4	9.3	11.2	13.1	15.1	17.1	19.0	20.9	22.8	24.8	26.7	28.7	30.6
HXT615	Output hp (run)	5.3	8.0	10.7	13.4	16.0	18.7	21.4	24.0	26.7	29.4	32.1	34.7	37.4
	Running torque (lb-in)	33,671	33,671	33,671	33,671	33,671	33,671	33,671	33,671	33,671	33,671	33,671	33,671	33,671
	Starting torque (lb-in)	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779
	Running pressure (psi)	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
	Flow rate (gpm)	11.0	13.1	15.3	17.4	19.5	21.7	23.8	26.0	28.1	30.3	32.4	34.5	36.7
HXT625	Output hp (run)	7.2	10.4	13.7	16.9	20.1	23.3	26.6	29.1	31.6	34.1	36.6	39.1	41.5
	Running torque (lb-in)	45,427	43,830	43,031	42,552	42,233	42,004	41,833	40,699	39,792	39,050	38,431	37,908	37,365
	Starting torque (lb-in)	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094
	Running pressure (psi)	2,058	1,985	1,949	1,927	1,913	1,903	1,895	1,843	1,802	1,769	1,741	1,717	1,692
	Flow rate (gpm)	12.5	15.8	19.3	22.7	26.2	29.7	33.2	36.6	40.0	43.4	46.8	50.3	53.7
HXT715	Output hp (run)	9.6	14.4	19.2	23.8	28.3	32.9	37.4	41.4	45.3	49.3	53.2	57.2	55.6
	Running torque (lb-in)	60,533	60,533	60,533	59,918	59,483	59,173	58,940	57,937	57,135	56,478	55,931	55,468	50,060
	Starting torque (lb-in)	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132
	Running pressure (psi)	2,500	2,500	2,500	2,475	2,457	2,444	2,434	2,393	2,360	2,333	2,310	2,291	2,067
	Flow rate (gpm)	12.7	16.6	20.4	24.2	28.0	31.9	35.7	39.5	43.3	47.1	50.9	54.7	58.1
HXT725	Output hp (run)	8.6	12.9	17.1	21.4	25.7	30.0	34.3	38.6	42.8	47.1	51.4	55.7	55.6
	Running torque (lb-in)	54,009	54,009	54,009	54,009	54,009	54,009	54,009	54,009	54,009	54,009	54,009	54,009	50,060
	Starting torque (lb-in)	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975
	Running pressure (psi)	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,317
	Flow rate (gpm)	13.6	17.0	20.4	23.9	27.3	30.7	34.2	37.6	41.1	44.5	47.9	51.4	54.3

~ See page G3-135 for definition of requirements.

Class I HXT

Easy selection

HXT115—HXT725 – double-reduction

Reducer size	Requirements ~	Output speed													
		75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT515	Output hp (run)	24.2	23.5	22.9	22.3	21.7	21.1	20.5	19.8	19.2	18.6	18.0	—	—	—
	Running torque (lb-in)	20,336	18,514	16,980	15,616	14,396	13,298	12,305	11,345	10,522	9,769	9,076	—	—	—
	Starting torque (lb-in)	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	—	—	—
	Running pressure (psi)	1,503	1,368	1,255	1,154	1,064	983	909	838	778	722	671	—	—	—
	Flow rate (gpm)	36.3	38.1	40.0	41.8	43.8	45.7	47.7	49.6	51.6	53.6	55.6	—	—	—
HXT525	Output hp (run)	24.2	23.5	—	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	20,336	18,514	—	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	29,528	29,528	—	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	1,625	1,479	—	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	32.3	34.1	—	—	—	—	—	—	—	—	—	—	—	—
HXT615	Output hp (run)	39.6	37.6	35.7	33.7	31.8	29.8	27.8	25.9	23.9	22.0	20.0	—	—	—
	Running torque (lb-in)	33,277	29,622	26,471	23,599	21,097	18,781	16,687	14,840	13,098	11,555	10,084	—	—	—
	Starting torque (lb-in)	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	—	—	—
	Running pressure (psi)	2,471	2,199	1,965	1,752	1,566	1,395	1,239	1,102	973	858	749	—	—	—
	Flow rate (gpm)	38.8	40.2	41.7	43.3	44.9	46.6	48.3	50.1	51.9	53.7	55.6	—	—	—
HXT625	Output hp (run)	39.6	37.6	—	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	33,277	29,622	—	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	52,094	52,094	—	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	1,507	1,342	—	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	56.7	59.8	—	—	—	—	—	—	—	—	—	—	—	—
HXT715	Output hp (run)	53.5	51.4	49.3	47.2	45.0	43.0	41.0	39.0	37.0	35.0	—	—	—	—
	Running torque (lb-in)	44,958	40,494	36,555	33,053	29,854	27,101	24,610	22,345	20,278	18,382	—	—	—	—
	Starting torque (lb-in)	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	—	—	—	—
	Running pressure (psi)	1,857	1,672	1,510	1,365	1,233	1,119	1,016	923	837	759	—	—	—	—
	Flow rate (gpm)	61.5	65.0	68.5	72.1	75.7	79.3	83.0	86.6	90.3	94.0	—	—	—	—
HXT725	Output hp (run)	53.5	—	—	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	44,958	—	—	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	50,975	—	—	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	2,081	—	—	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	57.1	—	—	—	—	—	—	—	—	—	—	—	—	—

~ See page G3-135 for definition of requirements.

Class II HXT

Easy selection

HXT115—HXT725 – double-reduction

Reducer size	Requirements ~	Output speed												
		10	15	20	25	30	35	40	45	50	55	60	65	70
HXT115	Output hp (run)	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.2	2.40	2.50
	Running torque (lb-in)	2,875	2,697	2,608	2,555	2,519	2,494	2,475	2,426	2,387	2,355	2,329	2,306	2,287
	Starting torque (lb-in)	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025
	Running pressure (psi)	1,204	1,129	1,092	1,070	1,055	1,044	1,036	1,016	1,000	986	975	966	958
	Flow rate (gpm)	1.7	2.0	2.4	2.7	3.1	3.5	3.8	4.2	4.6	4.9	5.3	5.7	6.1
HXT125	Output hp (run)	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.2	2.4	2.5
	Running torque (lb-in)	2,875	2,697	2,608	2,555	2,519	2,494	2,475	2,426	2,387	2,355	2,329	2,306	2,287
	Starting torque (lb-in)	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868
	Running pressure (psi)	1,690	1,585	1,533	1,501	1,480	1,465	1,454	1,426	1,403	1,384	1,369	1,355	1,344
	Flow rate (gpm)	1.4	1.6	1.8	2.1	2.4	2.6	2.9	3.1	3.4	3.7	3.9	4.2	4.5
HXT215	Output hp (run)	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.1	3.4	3.7	4.0	4.3	4.6
	Running torque (lb-in)	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,387	4,336	4,277	4,228	4,186	4,151
	Starting torque (lb-in)	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697
	Running pressure (psi)	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	1,976	1,950	1,927	1,908	1,892
	Flow rate (gpm)	2.2	2.6	2.9	3.3	3.6	4.0	4.3	4.7	5	5.3	5.7	6.0	6.3
HXT225	Output hp (run)	0.8	1.2	1.5	1.8	2.2	2.5	2.9	3.1	3.4	3.7	4.0	4.3	4.6
	Running torque (lb-in)	5,175	4,874	4,723	4,633	4,573	4,530	4,498	4,408	4,336	4,277	4,228	4,186	4,151
	Starting torque (lb-in)	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152
	Running pressure (psi)	1,418	1,335	1,294	1,269	1,253	1,241	1,232	1,208	1,188	1,172	1,158	1,147	1,137
	Flow rate (gpm)	2.2	2.8	3.3	3.9	4.4	5.0	5.6	6.2	6.7	7.3	7.9	8.4	9.0
HXT315	Output hp (run)	1.3	1.9	2.4	3.0	3.6	4.2	4.8	5.3	5.8	6.2	6.7	7.2	7.6
	Running torque (lb-in)	7,927	7,781	7,708	7,664	7,635	7,614	7,599	7,413	7,265	7,144	7,043	6,957	6,884
	Starting torque (lb-in)	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190
	Running pressure (psi)	1,088	1,068	1,058	1,052	1,048	1,045	1,043	1,018	997	981	967	955	945
	Flow rate (gpm)	4.0	5.1	6.2	7.4	8.5	9.7	10.8	12.0	13.1	14.2	15.4	16.5	17.7
HXT325	Output hp (run)	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.3	5.8	6.2	6.7	7.2	7.6
	Running torque (lb-in)	7,689	7,689	7,689	7,664	7,635	7,614	7,599	7,413	7,265	7,144	7,043	6,957	6,884
	Starting torque (lb-in)	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479
	Running pressure (psi)	2,000	2,000	2,000	1,994	1,986	1,981	1,977	1,928	1,890	1,858	1,832	1,810	1,791
	Flow rate (gpm)	2.7	3.4	4.0	4.6	5.2	5.8	6.4	7.0	7.6	8.1	8.7	9.3	9.9
HXT415	Output hp (run)	1.9	2.8	3.6	4.5	5.4	6.2	7.1	7.9	8.6	9.4	10.2	10.9	11.7
	Running torque (lb-in)	11,911	11,592	11,432	11,336	11,272	11,227	11,192	11,017	10,876	10,761	10,665	10,584	10,515
	Starting torque (lb-in)	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479
	Running pressure (psi)	1,608	1,565	1,543	1,530	1,522	1,516	1,511	1,487	1,468	1,453	1,440	1,429	1,419
	Flow rate (gpm)	4.8	5.9	7.0	8.2	9.4	10.5	11.7	12.8	14	15.2	16.3	17.5	18.6
HXT425	Output hp (run)	1.9	2.8	3.6	4.5	5.4	6.2	7.1	7.9	8.6	9.4	10.2	10.9	11.7
	Running torque (lb-in)	11,911	11,592	11,432	11,336	11,272	11,227	11,192	11,017	10,876	10,761	10,665	10,584	10,515
	Starting torque (lb-in)	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164
	Running pressure (psi)	998	971	958	950	944	941	938	923	911	902	894	887	881
	Flow rate (gpm)	5.3	7.2	9.0	10.9	12.8	14.7	16.6	18.5	20.4	22.3	24.1	26	27.9

~ See page G3-135 for definition of requirements.

Class II HXT

Easy selection

HXT115—HXT725 – double-reduction

Reducer size	Requirements ~	Output speed													
		75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT115	Output hp (run)	2.70	2.90	3.00	3.20	3.30	3.50	3.60	3.80	3.90	4.10	4.20	4.40	4.50	4.60
	Running torque (lb-in)	2,271	2,256	2,243	2,232	2,214	2,197	2,183	2,169	2,157	2,146	2,131	2,117	2,104	2,092
	Starting torque (lb-in)	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025
	Running pressure (psi)	951	945	939	934	927	920	914	908	903	899	892	886	881	876
	Flow rate (gpm)	6.4	6.8	7.2	7.6	7.9	8.3	8.7	9.1	9.4	9.8	10.2	10.6	10.9	11.3
HXT125	Output hp (run)	2.7	2.9	3.0	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	2,271	2,256	2,243	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	2,868	2,868	2,868	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	1,334	1,326	1,318	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	4.7	5.0	5.3	—	—	—	—	—	—	—	—	—	—	—
HXT215	Output hp (run)	4.9	5.2	5.5	5.8	6.0	6.3	6.6	6.8	7.1	7.4	7.6	7.9	8.2	8.4
	Running torque (lb-in)	4,120	4,093	4,069	4,048	4,010	3,976	3,945	3,917	3,891	3,868	3,847	3,828	3,810	3,793
	Starting torque (lb-in)	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697
	Running pressure (psi)	1,878	1,866	1,855	1,845	1,828	1,812	1,798	1,786	1,774	1,763	1,754	1,745	1,737	1,729
	Flow rate (gpm)	6.7	7.0	7.4	7.7	8.0	8.4	8.7	9.0	9.4	9.7	10.1	10.4	10.8	11.1
HXT225	Output hp (run)	4.9	5.2	5.5	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	4,120	4,093	4,069	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	6,152	6,152	6,152	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	1,129	1,121	1,115	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	9.6	10.2	10.7	—	—	—	—	—	—	—	—	—	—	—
HXT315	Output hp (run)	8.1	8.6	9.1	9.5	9.9	10.2	10.6	10.9	11.3	11.6	11.9	12.3	12.6	12.9
	Running torque (lb-in)	6,820	6,765	6,716	6,672	6,552	6,443	6,345	6,256	6,174	6,099	6,022	5,951	5,885	5,824
	Starting torque (lb-in)	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,078	16,862	16,663	16,478	16,306
	Running pressure (psi)	936	929	922	916	899	884	871	859	847	837	827	817	808	799
	Flow rate (gpm)	18.8	20	21.1	22.2	23.4	24.5	25.7	26.8	27.9	29.1	30.2	31.4	32.5	33.7
HXT325	Output hp (run)	8.1	8.6	9.1	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	6,820	6,765	6,716	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	6,479	6,479	6,479	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	1,774	1,760	1,747	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	10.5	11.1	11.7	—	—	—	—	—	—	—	—	—	—	—
HXT415	Output hp (run)	12.4	13.2	14.0	14.7	15.4	16.1	16.7	17.4	18.0	18.7	19.2	19.0	18.5	18.0
	Running torque (lb-in)	10,455	10,402	10,355	10,314	10,211	10,118	10,034	9,957	9,887	9,823	9,693	9,211	8,637	8,103
	Starting torque (lb-in)	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479
	Running pressure (psi)	1,411	1,404	1,398	1,392	1,378	1,366	1,355	1,344	1,335	1,326	1,309	1,244	1,166	1,094
	Flow rate (gpm)	19.8	21.0	22.1	23.3	24.5	25.6	26.8	28.0	29.1	30.3	31.4	32.5	33.6	34.7
HXT425	Output hp (run)	12.4	13.2	14.0	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	10,455	10,402	10,355	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	28,164	28,164	28,164	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	876	871	868	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	29.8	31.7	33.6	—	—	—	—	—	—	—	—	—	—	—

~ See page G3-135 for definition of requirements.

Class II HXT

Easy selection

HXT115—HXT725 – double-reduction

Reducer size	Requirements ~	Output speed												
		10	15	20	25	30	35	40	45	50	55	60	65	70
HXT515	Output hp (run)	3.3	4.7	6.1	7.5	8.9	10.3	11.7	12.8	13.8	14.9	15.9	16.9	18.0
	Running torque (lb-in)	20,537	19,624	19,168	18,894	18,711	18,581	18,483	17,890	17,415	17,027	16,703	16,429	16,195
	Starting torque (lb-in)	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924
	Running pressure (psi)	1,518	1,450	1,417	1,396	1,383	1,373	1,366	1,322	1,287	1,258	1,235	1,214	1,197
	Flow rate (gpm)	8.4	10.3	12.4	14.5	16.6	18.7	20.9	22.9	25.0	27.1	29.1	31.2	33.3
HXT525	Output hp (run)	3.3	4.7	6.1	7.5	8.9	10.3	11.7	12.8	13.8	14.9	15.9	16.9	18.0
	Running torque (lb-in)	20,537	19,624	19,168	18,894	18,711	18,581	18,483	17,890	17,415	17,027	16,703	16,429	16,195
	Starting torque (lb-in)	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528
	Running pressure (psi)	1,641	1,568	1,532	1,510	1,495	1,485	1,477	1,430	1,392	1,361	1,335	1,313	1,294
	Flow rate (gpm)	6.4	8.3	10.3	12.2	14.2	16.2	18.2	20.1	22.0	24.0	25.9	27.9	29.8
HXT615	Output hp (run)	5.1	7.5	9.8	12.1	14.4	16.7	19.0	20.8	22.5	24.3	26.1	27.9	29.7
	Running torque (lb-in)	32,448	31,307	30,737	30,394	30,166	30,003	29,881	29,071	28,423	27,893	27,451	27,077	26,756
	Starting torque (lb-in)	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779
	Running pressure (psi)	2,409	2,325	2,282	2,257	2,240	2,228	2,219	2,158	2,110	2,071	2,038	2,010	1,987
	Flow rate (gpm)	10.7	12.6	14.7	16.7	18.8	21.0	23.1	25.1	27.1	29.1	31.2	33.2	35.3
HXT625	Output hp (run)	5.1	7.5	9.8	12.1	14.4	16.7	19.0	20.8	22.5	24.3	26.1	27.9	29.7
	Running torque (lb-in)	32,448	31,307	30,737	30,394	30,166	30,003	29,881	29,071	28,423	27,893	27,451	27,077	26,756
	Starting torque (lb-in)	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094
	Running pressure (psi)	1,470	1,418	1,392	1,377	1,366	1,359	1,353	1,317	1,287	1,263	1,243	1,226	1,212
	Flow rate (gpm)	11.0	14.3	17.8	21.3	24.7	28.2	31.7	35.1	38.6	42.0	45.5	49.0	52.4
HXT715	Output hp (run)	7.2	10.5	13.7	17.0	20.2	23.5	26.7	29.5	32.4	35.2	38.0	40.9	43.7
	Running torque (lb-in)	45,591	44,040	43,264	42,798	42,488	42,266	42,100	41,384	40,811	40,342	39,951	39,620	39,337
	Starting torque (lb-in)	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132
	Running pressure (psi)	1,883	1,819	1,787	1,768	1,755	1,746	1,739	1,709	1,685	1,666	1,650	1,636	1,625
	Flow rate (gpm)	11.5	15.2	19.0	22.8	26.6	30.5	34.3	38.1	41.9	45.7	49.5	53.4	57.2
HXT725	Output hp (run)	7.2	10.5	13.7	17.0	20.2	23.5	26.7	29.5	32.4	35.2	38.0	40.9	43.7
	Running torque (lb-in)	45,591	44,040	43,264	42,798	42,488	42,266	42,100	41,384	40,811	40,342	39,951	39,620	39,337
	Starting torque (lb-in)	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975
	Running pressure (psi)	2,110	2,039	2,003	1,981	1,967	1,956	1,949	1,916	1,889	1,867	1,849	1,834	1,821
	Flow rate (gpm)	12.5	15.8	19.1	22.5	25.9	29.3	32.7	36.1	39.4	42.8	46.2	49.6	53.0

~ See page G3-135 for definition of requirements.

Class II HXT

Easy selection

HXT115—HXT725 – double-reduction

Reducer size	Requirements ~	Output speed													
		75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT515	Output hp (run)	19.0	20.1	21.1	22.2	21.7	21.1	20.5	19.8	19.2	18.6	18.0	—	—	—
	Running torque (lb-in)	15,991	15,813	15,656	15,517	14,396	13,298	12,305	11,344	10,522	9,769	9,076	—	—	—
	Starting torque (lb-in)	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	—	—	—
	Running pressure (psi)	1,182	1,169	1,157	1,147	1,064	983	909	838	778	722	671	—	—	—
	Flow rate (gpm)	35.5	37.6	39.7	41.8	43.8	45.7	47.7	49.6	51.6	53.6	55.6	—	—	—
HXT525	Output hp (run)	19.0	20.1	—	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	15,991	15,813	—	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	29,528	29,528	—	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	1,278	1,264	—	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	31.8	33.8	—	—	—	—	—	—	—	—	—	—	—	—
HXT615	Output hp (run)	31.5	33.3	35.1	33.7	31.8	29.8	27.8	25.9	23.9	22.0	20.0	—	—	—
	Running torque (lb-in)	26,479	26,236	26,021	23,599	21,097	18,781	16,687	14,840	13,098	11,555	10,084	—	—	—
	Starting torque (lb-in)	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	—	—	—
	Running pressure (psi)	1,966	1,948	1,932	1,752	1,566	1,395	1,239	1,102	973	858	749	—	—	—
	Flow rate (gpm)	37.4	39.5	41.6	43.3	44.9	46.6	48.3	50.1	51.9	53.7	55.6	—	—	—
HXT625	Output hp (run)	31.5	33.3	—	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	26,479	26,236	—	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	52,094	52,094	—	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	1,199	1,188	—	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	55.9	59.4	—	—	—	—	—	—	—	—	—	—	—	—
HXT715	Output hp (run)	46.5	49.3	49.3	47.2	45.0	43.0	41.0	39.0	37.0	35.0	—	—	—	—
	Running torque (lb-in)	39,091	38,876	36,555	33,053	29,854	27,101	24,610	22,345	20,278	18,382	—	—	—	—
	Starting torque (lb-in)	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	—	—	—	—
	Running pressure (psi)	1,614	1,606	1,510	1,365	1,233	1,119	1,016	923	837	759	—	—	—	—
	Flow rate (gpm)	61.0	64.9	68.5	72.1	75.7	79.3	83.0	86.6	90.3	94.0	—	—	—	—
HXT725	Output hp (run)	46.5	—	—	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	39,091	—	—	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	50,975	—	—	—	—	—	—	—	—	—	—	—	—	—
	Running pressure (psi)	1,809	—	—	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	56.4	—	—	—	—	—	—	—	—	—	—	—	—	—

~ See page G3-135 for definition of requirements.

Class III – HXT

Easy selection

HXT115—HXT725 – double-reduction

Reducer size	Requirements ~	Output speed												
		10	15	20	25	30	35	40	45	50	55	60	65	70
HXT115	Output hp (run)	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8
	Running torque (lb-in)	2,013	1,888	1,826	1,788	1,763	1,746	1,732	1,698	1,671	1,649	1,630	1,615	1,601
	Starting torque (lb-in)	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025
	Running pressure (psi)	843	791	764	749	738	731	725	711	700	690	683	676	670
	Flow rate (gpm)	1.4	1.7	2.1	2.5	2.8	3.2	3.6	4.0	4.3	4.7	5.1	5.5	5.8
HXT125	Output hp (run)	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8
	Running torque (lb-in)	2,013	1,888	1,826	1,788	1,763	1,746	1,732	1,698	1,671	1,649	1,630	1,615	1,601
	Starting torque (lb-in)	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868	2,868
	Running pressure (psi)	1,183	1,110	1,073	1,051	1,036	1,026	1,018	998	982	969	958	949	941
	Flow rate (gpm)	1.1	1.4	1.6	1.9	2.1	2.4	2.7	2.9	3.2	3.5	3.7	4.0	4.3
HXT215	Output hp (run)	0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2
	Running torque (lb-in)	3,623	3,412	3,306	3,243	3,201	3,171	3,148	3,085	3,035	2,994	2,959	2,930	2,906
	Starting torque (lb-in)	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697
	Running pressure (psi)	1,651	1,555	1,507	1,478	1,459	1,445	1,435	1,406	1,383	1,365	1,349	1,336	1,324
	Flow rate (gpm)	2.0	2.2	2.5	2.9	3.2	3.5	3.9	4.2	4.5	4.9	5.2	5.6	5.9
HXT225	Output hp (run)	0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2
	Running torque (lb-in)	3,623	3,412	3,306	3,243	3,201	3,171	3,148	3,085	3,035	2,994	2,959	2,930	2,906
	Starting torque (lb-in)	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152	6,152
	Running pressure (psi)	993	935	906	889	877	869	863	845	832	820	811	803	796
	Flow rate (gpm)	1.9	2.5	3.0	3.6	4.2	4.7	5.3	5.9	6.4	7.0	7.6	8.2	8.7
HXT315	Output hp (run)	0.9	1.3	1.7	2.1	2.5	3.0	3.4	3.7	4.0	4.4	4.7	5.0	5.4
	Running torque (lb-in)	5,549	5,447	5,396	5,365	5,345	5,330	5,319	5,189	5,086	5,001	4,930	4,870	4,819
	Starting torque (lb-in)	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190
	Running pressure (psi)	762	748	741	736	734	732	730	712	698	686	677	668	661
	Flow rate (gpm)	3.5	4.6	5.8	6.9	8.1	9.2	10.4	11.5	12.6	13.8	14.9	16.1	17.2
HXT325	Output hp (run)	0.9	1.3	1.7	2.1	2.5	3.0	3.4	3.7	4.0	4.4	4.7	5.0	5.4
	Running torque (lb-in)	5,549	5,447	5,396	5,365	5,345	5,330	5,319	5,189	5,086	5,001	4,930	4,870	4,819
	Starting torque (lb-in)	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479	6,479
	Running pressure (psi)	1,443	1,417	1,403	1,396	1,390	1,386	1,384	1,350	1,323	1,301	1,282	1,267	1,253
	Flow rate (gpm)	2.3	2.9	3.5	4.1	4.7	5.3	6.0	6.5	7.1	7.7	8.3	8.9	9.5
HXT415	Output hp (run)	1.3	1.9	2.5	3.1	3.8	4.4	5.0	5.5	6.0	6.6	7.1	7.6	8.2
	Running torque (lb-in)	8,338	8,114	8,002	7,935	7,891	7,859	7,835	7,712	7,613	7,533	7,466	7,409	7,360
	Starting torque (lb-in)	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479
	Running pressure (psi)	1,126	1,095	1,080	1,071	1,065	1,061	1,058	1,041	1,028	1,017	1,008	1,000	994
	Flow rate (gpm)	4.1	5.2	6.3	7.5	8.7	9.8	11.0	12.2	13.3	14.5	15.7	16.8	18.0
HXT425	Output hp (run)	1.3	1.9	2.5	3.1	3.8	4.4	5.0	5.5	6.0	6.6	7.1	7.6	8.2
	Running torque (lb-in)	8,338	8,114	8,002	7,935	7,891	7,859	7,835	7,712	7,613	7,533	7,466	7,409	7,360
	Starting torque (lb-in)	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164	28,164
	Running pressure (psi)	699	680	670	665	661	658	656	646	638	631	625	621	617
	Flow rate (gpm)	4.9	6.7	8.6	10.5	12.4	14.3	16.2	18.1	20.0	21.8	23.7	25.6	27.5

~ See page G3-135 for definition of requirements.

Class III HXT

Easy selection

HXT115—HXT725 – double-reduction

Reducer size	Requirements ~	Output speed													
		75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT115	Output hp (run)	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.1	3.2	3.3
	Running torque (lb-in)	1,589	1,579	1,570	1,562	1,550	1,538	1,528	1,519	1,510	1,502	1,492	1,482	1,473	1,464
	Starting torque (lb-in)	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025	4,025
	Running Pressure (psi)	666	661	657	654	649	644	640	636	632	629	625	620	617	613
	Flow rate (gpm)	6.2	6.6	7.0	7.3	7.7	8.1	8.5	8.9	9.2	9.6	10.0	10.4	10.7	11.1
HXT125	Output hp (run)	1.9	2.0	2.1	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	1,589	1,579	1,570	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	2,868	2,868	2,868	—	—	—	—	—	—	—	—	—	—	—
	Running Pressure (psi)	934	928	923	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	4.5	4.8	5.1	—	—	—	—	—	—	—	—	—	—	—
HXT215	Output hp (run)	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.3	5.5	5.7	5.9
	Running torque (lb-in)	2,884	2,865	2,848	2,834	2,807	2,783	2,762	2,742	2,724	2,707	2,693	2,679	2,667	2,655
	Starting torque (lb-in)	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697
	Running Pressure (psi)	1,315	1,306	1,298	1,292	1,280	1,269	1,259	1,250	1,242	1,234	1,228	1,221	1,216	1,210
	Flow rate (gpm)	6.2	6.6	6.9	7.3	7.6	8.0	8.3	8.6	9.0	9.3	9.7	10.0	10.4	10.7
HXT225	Output hp (run)	3.4	3.6	3.8	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	2,884	2,865	2,848	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	6,152	6,152	6,152	—	—	—	—	—	—	—	—	—	—	—
	Running Pressure (psi)	790	785	780	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	9.3	9.9	10.5	—	—	—	—	—	—	—	—	—	—	—
HXT315	Output hp (run)	5.7	6.0	6.3	6.7	6.9	7.2	7.4	7.6	7.9	8.1	8.4	8.6	8.8	9.1
	Running torque (lb-in)	4,774	4,735	4,701	4,671	4,586	4,510	4,441	4,379	4,322	4,270	4,216	4,166	4,119	4,077
	Starting torque (lb-in)	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,190	17,078	16,862	16,663	16,478	16,306
	Running Pressure (psi)	655	650	645	641	630	619	610	601	593	586	579	572	565	560
	Flow rate (gpm)	18.4	19.5	20.7	21.8	23.0	24.1	25.3	26.4	27.6	28.7	29.9	31.0	32.2	33.3
HXT325	Output hp (run)	5.7	6.0	6.3	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	4,774	4,735	4,701	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	6,479	6,479	6,479	—	—	—	—	—	—	—	—	—	—	—
	Running Pressure (psi)	1,242	1,232	1,223	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	10.1	10.7	11.3	—	—	—	—	—	—	—	—	—	—	—
HXT415	Output hp (run)	8.7	9.2	9.8	10.3	10.8	11.2	11.7	12.2	12.6	13.1	13.5	13.8	14.2	14.6
	Running torque (lb-in)	7,318	7,281	7,249	7,220	7,147	7,082	7,024	6,970	6,921	6,876	6,785	6,701	6,623	6,551
	Starting torque (lb-in)	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479	17,479
	Running Pressure (psi)	988	983	979	975	965	956	948	941	934	928	916	905	894	884
	Flow rate (gpm)	19.2	20.3	21.5	22.7	23.9	25.0	26.2	27.4	28.5	29.7	30.9	32.0	33.2	34.3
HXT425	Output hp (run)	8.7	9.2	9.8	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	7,318	7,281	7,249	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	28,164	28,164	28,164	—	—	—	—	—	—	—	—	—	—	—
	Running Pressure (psi)	613	610	607	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	29.4	31.3	33.2	—	—	—	—	—	—	—	—	—	—	—

~ See page G3-135 for definition of requirements.

Class III HXT

Easy selection

HXT115—HXT725 – double-reduction

Reducer size	Requirements ~	Output speed												
		10	15	20	25	30	35	40	45	50	55	60	65	70
HXT515	Output hp (run)	2.3	3.3	4.3	5.2	6.2	7.2	8.2	8.9	9.7	10.4	11.1	11.9	12.6
	Running torque (lb-in)	14,376	13,737	13,417	13,226	13,098	13,007	12,938	12,523	12,191	11,919	11,692	11,501	11,336
	Starting torque (lb-in)	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924
	Running pressure (psi)	1,063	1,015	992	978	968	961	956	926	901	881	864	850	838
	Flow rate (gpm)	7.1	9.2	11.3	13.4	15.5	17.6	19.8	21.9	23.9	26.0	28.2	30.3	32.4
HXT525	Output hp (run)	2.3	3.3	4.3	5.2	6.2	7.2	8.2	8.9	9.7	10.4	11.1	11.9	12.6
	Running torque (lb-in)	14,376	13,737	13,417	13,226	13,098	13,007	12,938	12,523	12,191	11,919	11,692	11,501	11,336
	Starting torque (lb-in)	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528	29,528
	Running pressure (psi)	1,149	1,098	1,072	1,057	1,047	1,039	1,034	1,001	974	952	934	919	906
	Flow rate (gpm)	5.7	7.6	9.6	11.5	13.5	15.5	17.5	19.4	21.4	23.3	25.3	27.3	29.2
HXT615	Output hp (run)	3.6	5.2	6.8	8.4	10.1	11.7	13.3	14.5	15.8	17	18.3	19.5	20.8
	Running torque (lb-in)	22,714	21,915	21,516	21,276	21,116	21,002	20,917	20,350	19,896	19,525	19,216	18,954	18,729
	Starting torque (lb-in)	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779
	Running pressure (psi)	1,686	1,627	1,598	1,580	1,568	1,559	1,553	1,511	1,477	1,450	1,427	1,407	1,391
	Flow rate (gpm)	8.8	10.8	12.8	14.9	17.1	19.2	21.3	23.3	25.4	27.5	29.5	31.6	33.7
HXT625	Output hp (run)	3.6	5.2	6.8	8.4	10.1	11.7	13.3	14.5	15.8	17	18.3	19.5	20.8
	Running torque (lb-in)	22,714	21,915	21,516	21,276	21,116	21,002	20,917	20,350	19,896	19,525	19,216	18,954	18,729
	Starting torque (lb-in)	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094	52,094
	Running pressure (psi)	1,029	993	975	964	956	951	947	922	901	884	870	858	848
	Flow rate (gpm)	9.8	13.2	16.7	20.1	23.6	27.1	30.6	34.1	37.5	41.0	44.5	48.0	51.5
HXT715	Output hp (run)	5.1	7.3	9.6	11.9	14.2	16.4	18.7	20.7	22.7	24.6	26.6	28.6	30.6
	Running torque (lb-in)	31,914	30,828	30,285	29,959	29,742	29,587	29,470	28,969	28,567	28,239	27,966	27,734	27,536
	Starting torque (lb-in)	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132
	Running pressure (psi)	1,318	1,273	1,251	1,237	1,228	1,222	1,217	1,196	1,180	1,166	1,155	1,145	1,137
	Flow rate (gpm)	10.3	14.1	17.9	21.7	25.6	29.4	33.3	37.1	40.9	44.7	48.6	52.4	56.2
HXT725	Output hp (run)	5.1	7.3	9.6	11.9	14.2	16.4	18.7	20.7	22.7	24.6	26.6	28.6	30.6
	Running torque (lb-in)	31,914	30,828	30,285	29,959	29,742	29,587	29,470	28,969	28,567	28,239	27,966	27,734	27,536
	Starting torque (lb-in)	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975	50,975
	Running pressure (psi)	1,477	1,427	1,402	1,387	1,377	1,370	1,364	1,341	1,322	1,307	1,294	1,284	1,275
	Flow rate (gpm)	10.8	14.1	17.5	20.9	24.3	27.7	31.2	34.5	37.9	41.3	44.7	48.1	51.5

~ See page G3-135 for definition of requirements.

Class III HXT

Easy selection

HXT115—HXT725 – double-reduction

Reducer size	Requirements ~	Output speed													
		75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT515	Output hp (run)	13.3	14.1	14.8	15.5	16.1	16.6	17.2	17.7	18.2	18.6	18	—	—	—
	Running torque (lb-in)	11,194	11,069	10,959	10,862	10,653	10,466	10,296	10,141	10,000	9,769	9,076	—	—	—
	Starting torque (lb-in)	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	31,924	—	—	—
	Running Pressure (psi)	827	818	810	803	787	774	761	750	739	722	671	—	—	—
	Flow rate (gpm)	34.5	36.6	38.8	40.9	43.0	45.1	47.3	49.4	51.5	53.6	55.6	—	—	—
HXT525	Output hp (run)	13.3	14.1	—	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	11,194	11,069	—	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	29,528	29,528	—	—	—	—	—	—	—	—	—	—	—	—
	Running Pressure (psi)	895	885	—	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	31.2	33.2	—	—	—	—	—	—	—	—	—	—	—	—
HXT615	Output hp (run)	22.1	23.3	24.6	25.8	26.6	27.5	27.8	25.9	23.9	22.0	20.0	—	—	—
	Running torque (lb-in)	18,535	18,365	18,215	18,081	17,680	17,318	16,687	14,840	13,098	11,555	10,084	—	—	—
	Starting torque (lb-in)	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	31,779	—	—	—
	Running Pressure (psi)	1,376	1,364	1,352	1,343	1,313	1,286	1,239	1,102	973	858	749	—	—	—
	Flow rate (gpm)	35.8	37.9	40.1	42.2	44.2	46.3	48.3	50.1	51.9	53.7	55.6	—	—	—
HXT625	Output hp (run)	22.1	23.3	—	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	18,535	18,365	—	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	52,094	52,094	—	—	—	—	—	—	—	—	—	—	—	—
	Running Pressure (psi)	840	832	—	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	55.0	58.4	—	—	—	—	—	—	—	—	—	—	—	—
HXT715	Output hp (run)	32.6	34.5	36.5	38.5	40.2	41.9	41.0	39.0	37.0	35.0	—	—	—	—
	Running torque (lb-in)	27,364	27,213	27,080	26,962	26,663	26,394	24,610	22,345	20,278	18,382	—	—	—	—
	Starting torque (lb-in)	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	57,132	—	—	—	—
	Running Pressure (psi)	1,130	1,124	1,118	1,114	1,101	1,090	1,016	923	837	759	—	—	—	—
	Flow rate (gpm)	60.1	63.9	67.8	71.6	75.4	79.3	83	86.6	90.3	94	—	—	—	—
HXT725	Output hp (run)	32.6	—	—	—	—	—	—	—	—	—	—	—	—	—
	Running torque (lb-in)	27,364	—	—	—	—	—	—	—	—	—	—	—	—	—
	Starting torque (lb-in)	50,975	—	—	—	—	—	—	—	—	—	—	—	—	—
	Running Pressure (psi)	1,267	—	—	—	—	—	—	—	—	—	—	—	—	—
	Flow rate (gpm)	55.0	—	—	—	—	—	—	—	—	—	—	—	—	—

~ See page G3-135 for definition of requirements.

Class I HXT

Easy selection

HXT105—HXT505 – single-reduction

Reducer size	Requirements ~	Output speed														
		90	100	110	120	130	140	150	160	180	200	220	250	300	350	400
HXT105	Output hp (run)	3.9	4.2	4.4	4.7	5.0	5.2	5.5	5.7	6.2	6.7	6.9	7.1	7.6	7.9	8.3
	Running torque (lb-in)	2,758	2,641	2,546	2,467	2,400	2,342	2,293	2,249	2,176	2,118	1,973	1,799	1,586	1,424	1,303
	Starting torque (lb-in)	5,515	5,283	5,093	4,934	4,800	4,685	4,585	4,498	4,353	4,237	3,946	3,598	3,172	2,848	2,605
	Running pressure (psi)	982	940	907	878	854	834	816	801	775	754	702	640	565	507	464
	Flow rate (gpm)	9.4	10.2	11.0	11.8	12.7	13.5	14.4	15.2	16.9	18.7	20.3	22.9	27.1	31.4	35.7
HXT205	Output hp (run)	6.8	7.1	7.4	7.7	8.0	8.3	8.6	8.9	9.5	10.1	10.5	11.1	12.0	12.9	13.8
	Running torque (lb-in)	4,759	4,475	4,243	4,049	3,886	3,745	3,624	3,517	3,340	3,198	3,014	2,793	2,523	2,322	2,171
	Starting torque (lb-in)	6,238	6,238	6,238	6,238	6,238	6,238	6,238	6,238	6,238	6,238	6,028	5,586	5,046	4,644	4,342
	Running pressure (psi)	1,800	1,693	1,605	1,532	1,470	1,417	1,371	1,330	1,263	1,210	1,140	1,056	954	878	821
	Flow rate (gpm)	10.1	10.8	11.5	12.2	12.9	13.7	14.4	15.2	16.7	18.3	19.9	22.2	26.2	30.2	34.2
HXT305	Output hp (run)	10.1	10.7	11.3	12.0	12.6	13.2	13.8	14.4	15.7	16.9	17.6	17.7	16.8	15.9	15.0
	Running torque (lb-in)	7,074	6,758	6,499	6,284	6,102	5,946	5,810	5,692	5,495	5,337	5,056	4,462	3,529	2,863	2,363
	Starting torque (lb-in)	11,851	11,851	11,851	11,851	11,851	11,851	11,621	11,384	10,989	10,673	10,112	9,438	8,614	7,705	7,024
	Running pressure (psi)	1,408	1,346	1,294	1,251	1,215	1,184	1,157	1,133	1,094	1,063	1,007	888	703	570	471
	Flow rate (gpm)	17.9	19.3	20.7	22.1	23.6	25.1	26.6	28.1	31.1	34.2	37.1	41.5	48.9	56.3	63.9
HXT405	Output hp (run)	17.7	18.5	19.3	20.1	20.9	21.7	22.5	23.3	24.5	23.8	23.1	22.1	20.4	18.7	17.0
	Running torque (lb-in)	12,387	11,655	11,056	10,557	10,135	9,773	9,459	9,185	8,578	7,500	6,618	5,571	4,286	3,367	2,679
	Starting torque (lb-in)	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956
	Running pressure (psi)	2,445	2,300	2,182	2,083	2,000	1,929	1,867	1,813	1,693	1,480	1,306	1,099	846	665	529
	Flow rate (gpm)	20.8	21.9	23.2	24.5	25.9	27.3	28.7	30.1	33.0	35.6	38.3	42.4	49.7	57.1	64.6
HXT505	Output hp (run)	21.9	23.1	24.3	25.5	26.7	27.9	29.1	30.4	31.3	30.1	28.9	27.1	24.1	21.0	18.0
	Running torque (lb-in)	15,321	14,552	13,923	13,398	12,954	12,574	12,244	11,955	10,959	9,485	8,279	6,832	5,063	3,782	2,836
	Starting torque (lb-in)	21,713	21,713	21,713	21,713	21,713	21,713	21,713	21,713	21,713	21,713	21,529	20,748	19,794	18,659	17,808
	Running pressure (psi)	1,665	1,581	1,513	1,456	1,408	1,366	1,331	1,299	1,191	1,031	900	742	550	411	308
	Flow rate (gpm)	29.2	31.9	34.6	37.3	40.1	42.9	45.7	48.5	54.0	59.5	64.9	73.2	87.20	101.3	115.4

~ See page G3-135 for definition of requirements.

Class II HXT

Easy selection

HXT105—HXT505 – single-reduction

Reducer size	Requirements ~	Output speed														
		90	100	110	120	130	140	150	160	180	200	220	250	300	350	400
HXT105	Output hp (run)	2.8	3.0	3.2	3.4	3.5	3.7	3.9	4.1	4.4	4.8	4.9	5.1	5.4	5.6	5.9
	Running torque (lb-in)	1,970	1,887	1,819	1,762	1,714	1,673	1,638	1,606	1,555	1,513	1,409	1,285	1,133	1,017	930
	Starting torque (lb-in)	5,515	5,283	5,093	4,934	4,800	4,685	4,585	4,498	4,353	4,237	3,946	3,598	3,172	2,848	2,605
	Running pressure (psi)	701	672	648	627	610	596	583	572	553	539	502	457	403	362	331
	Flow rate (gpm)	8.9	9.8	10.6	11.5	12.3	13.2	14.0	14.9	16.6	18.3	20.0	22.6	26.9	31.2	35.5
HXT205	Output hp (run)	4.9	5.1	5.3	5.5	5.7	5.9	6.2	6.4	6.8	7.2	7.5	7.9	8.6	9.2	9.8
	Running torque (lb-in)	3,399	3,197	3,031	2,892	2,775	2,675	2,588	2,512	2,386	2,284	2,153	1,995	1,802	1,659	1,551
	Starting torque (lb-in)	6,238	6,238	6,238	6,238	6,238	6,238	6,238	6,238	6,238	6,238	6,028	5,586	5,046	4,644	4,342
	Running pressure (psi)	1,286	1,209	1,146	1,094	1,050	1,012	979	950	902	864	814	755	682	627	587
	Flow rate (gpm)	9.4	10.1	10.8	11.5	12.3	13.1	13.8	14.6	16.2	17.8	19.4	21.7	25.8	29.8	33.9
HXT305	Output hp (run)	7.2	7.7	8.1	8.5	9.0	9.4	9.9	10.3	11.2	12.1	12.6	13.4	14.6	15.3	15.0
	Running torque (lb-in)	5,053	4,827	4,642	4,489	4,358	4,247	4,150	4,066	3,925	3,812	3,611	3,371	3,076	2,752	2,363
	Starting torque (lb-in)	11,851	11,851	11,851	11,851	11,851	11,851	11,621	11,384	10,989	10,673	10,112	9,438	8,614	7,705	7,024
	Running pressure (psi)	1,006	961	924	894	868	846	826	810	781	759	719	671	613	548	471
	Flow rate (gpm)	16.8	18.2	19.7	21.2	22.7	24.2	25.7	27.2	30.3	33.4	36.4	40.9	48.6	56.3	63.9
HXT405	Output hp (run)	12.6	13.2	13.8	14.4	14.9	15.5	16.1	16.7	17.8	19.0	20.2	22.0	20.4	18.7	17.0
	Running torque (lb-in)	8,848	8,325	7,897	7,541	7,239	6,981	6,757	6,561	6,234	5,973	5,776	5,541	4,286	3,367	2,679
	Starting torque (lb-in)	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956
	Running pressure (psi)	1,746	1,643	1,559	1,488	1,429	1,378	1,333	1,295	1,230	1,179	1,140	1,093	846	665	529
	Flow rate (gpm)	18.9	20.2	21.5	22.9	24.4	25.8	27.3	28.7	31.7	34.8	37.8	42.4	49.7	57.1	64.6
HXT505	Output hp (run)	15.6	16.5	17.4	18.2	19.1	20.0	20.8	21.7	23.4	25.1	26.8	27.1	24.1	21.0	18.0
	Running torque (lb-in)	10,944	10,394	9,945	9,570	9,253	8,981	8,746	8,540	8,196	7,921	7,689	6,832	5,063	3,782	2,836
	Starting torque (lb-in)	21,713	21,713	21,713	21,713	21,713	21,713	21,713	21,713	21,713	21,713	21,529	20,748	19,794	18,659	17,808
	Running pressure (psi)	1,189	1,130	1,081	1,040	1,006	976	950	928	891	861	836	742	550	411	308
	Flow rate (gpm)	28.2	31.0	33.7	36.5	39.3	42.1	44.9	47.8	53.4	59.1	64.8	73.2	87.2	101.3	115.4

~ See page G3-135 for definition of requirements.

Class III HXT

Easy selection

HXT105—HXT505 – single-reduction

Reducer size	Requirements ~	Output speed														
		90	100	110	120	130	140	150	160	180	200	220	250	300	350	400
HXT105	Output hp (run)	3.9	4.2	4.4	4.7	5.0	5.2	5.5	5.7	6.2	6.7	6.9	7.1	7.6	7.9	8.3
	Running torque (lb-in)	2,758	2,641	2,546	2,467	2,400	2,342	2,293	2,249	2,176	2,118	1,973	1,799	1,586	1,424	1,303
	Starting torque (lb-in)	5,515	5,283	5,093	4,934	4,800	4,685	4,585	4,498	4,353	4,237	3,946	3,598	3,172	2,848	2,605
	Running pressure (psi)	982	940	907	878	854	834	816	801	775	754	702	640	565	507	464
	Flow rate (gpm)	9.4	10.2	11.0	11.8	12.7	13.5	14.4	15.2	16.9	18.7	20.3	22.9	27.1	31.4	35.7
HXT205	Output hp (run)	6.8	7.1	7.4	7.7	8.0	8.3	8.6	8.9	9.5	10.1	10.5	11.1	12.0	12.9	13.8
	Running torque (lb-in)	4,759	4,475	4,243	4,049	3,886	3,745	3,624	3,517	3,340	3,198	3,014	2,793	2,523	2,322	2,171
	Starting torque (lb-in)	6,238	6,238	6,238	6,238	6,238	6,238	6,238	6,238	6,238	6,238	6,028	5,586	5,046	4,644	4,342
	Running pressure (psi)	1,800	1,693	1,605	1,532	1,470	1,417	1,371	1,330	1,263	1,210	1,140	1,056	954	878	821
	Flow rate (gpm)	10.1	10.8	11.5	12.2	12.9	13.7	14.4	15.2	16.7	18.3	19.9	22.2	26.2	30.2	34.2
HXT305	Output hp (run)	10.1	10.7	11.3	12.0	12.6	13.2	13.8	14.4	15.7	16.9	17.6	17.7	16.8	15.9	15.0
	Running torque (lb-in)	7,074	6,758	6,499	6,284	6,102	5,946	5,810	5,692	5,495	5,337	5,056	4,462	3,529	2,863	2,363
	Starting torque (lb-in)	11,851	11,851	11,851	11,851	11,851	11,851	11,621	11,384	10,989	10,673	10,112	9,438	8,614	7,705	7,024
	Running pressure (psi)	1,408	1,346	1,294	1,251	1,215	1,184	1,157	1,133	1,094	1,063	1,007	888	703	570	471
	Flow rate (gpm)	17.9	19.3	20.7	22.1	23.6	25.1	26.6	28.1	31.1	34.2	37.1	41.5	48.9	56.3	63.9
HXT405	Output hp (run)	17.7	18.5	19.3	20.1	20.9	21.7	22.5	23.3	24.5	23.8	23.1	22.1	20.4	18.7	17.0
	Running torque (lb-in)	12,387	11,655	11,056	10,557	10,135	9,773	9,459	9,185	8,578	7,500	6,618	5,571	4,286	3,367	2,679
	Starting torque (lb-in)	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956	11,956
	Running pressure (psi)	2,445	2,300	2,182	2,083	2,000	1,929	1,867	1,813	1,693	1,480	1,306	1,099	846	665	529
	Flow rate (gpm)	20.8	21.9	23.2	24.5	25.9	27.3	28.7	30.1	33.0	35.6	38.3	42.4	49.7	57.1	64.6
HXT505	Output hp (run)	21.9	23.1	24.3	25.5	26.7	27.9	29.1	30.4	31.3	30.1	28.9	27.1	24.1	21.0	18.0
	Running torque (lb-in)	15,321	14,552	13,923	13,398	12,954	12,574	12,244	11,955	10,959	9,485	8,279	6,832	5,063	3,782	2,836
	Starting torque (lb-in)	21,713	21,713	21,713	21,713	21,713	21,713	21,713	21,713	21,713	21,713	21,529	20,748	19,794	18,659	17,808
	Running pressure (psi)	1,665	1,581	1,513	1,456	1,408	1,366	1,331	1,299	1,191	1,031	900	742	550	411	308
	Flow rate (gpm)	29.2	31.9	34.6	37.3	40.1	42.9	45.7	48.5	54.0	59.5	64.9	73.2	87.20	101.3	115.4

~ See page G3-135 for definition of requirements.

Definition of requirements

HXT easy selection

Requirements:

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

Running torque – Continuous output torque rating of reducer/motor (lb-in)

Starting torque – Momentary output torque available for starting (lb-in)

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

Flow rate – Flow required for given output speed (rpm). With oil viscosity of 300SUS at 100 °F. for A10 and A20 motors, and 200SUS at 100 °F for B30, B40 and B50 motors.

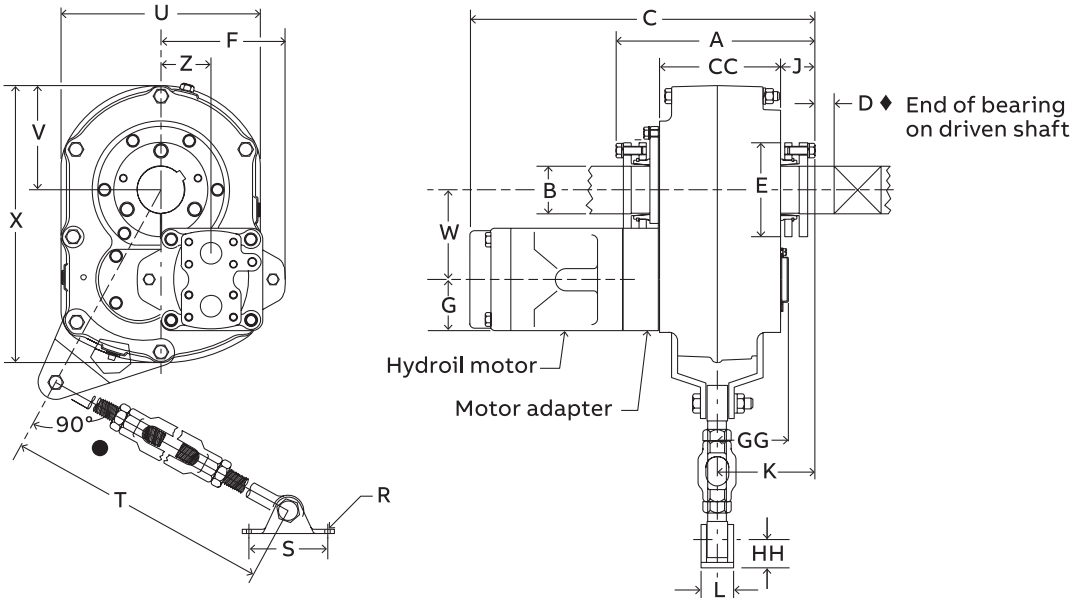
Hydroil vane motors for HXT gear reducers

Motor size	Part number	Displacement (in^3/rev.)	Running torque (in-lb/100 psi)	Starting torque (in-lb/100 psi)	Flow rate (gpm/100 rmp)	Internal leakage (gpm/1000 psi) *	Minimum motor speed (rpm)	Max operating pressure (psi)	Weight (lb)
A10	444049	0.49	6.9	5.75	0.21	0.49	60	2,000	11
A20	444050	1.14	16.1	13.4	0.50	0.76	60	2,000	11
B30	444054	3.59	51.3	46.2	1.60	1.50	100	2,500	30
B40	444055	6.40	91.8	82.6	2.77	2.67	100	2,500	55
B50	444056	11.69	167.4	150.7	5.10	2.00	100	2,500	106

Selection and dimensions

HXT1—HXT7

Double-reduction taper-bushed



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

u Recommended minimum distance to loosen bushing using bushing screws as jack screws.

l The ideal position for the TA is at right-angles to a line between the point of attachment of the TA to the reducer and the output shaft. This may vary up to +/- 20 degrees in tension, and +/- 20 degrees in compression.

Caution: Exceeding the position variance of the TA could result in excessive reaction load and result in damage to the equipment.

HXT1E—HXT7E double-reduction taper-bushed reducers

Reducer size		AGMA code		Gear ratio		Part number		Wt. (lb)	Hydroil motor		A	B Max. bore ♥	C	D	E	F	G	J	K
15:1	25:1	15:1	25:1	15:1	25:1	15:1	25:1		Size	Wt. (lb)									
—	HXT125E	—	107H25	—	25.64	—	E241070 ♣	49	A10	11	7.06	1.44	13.22	1.25	3.25	4.47	2.41	1.28	3.53
HXT115E	—	107H15	—	15.35	—	E241069 ♣	—		A20										
HXT215E	HXT225E	115H15	115H25	14.10	23.46	E242086 ♣	E242087 ♣	65	A20	11	7.31	1.94	13.38	1.25	4.06	4.69	2.41	1.38	3.66
—	HXT325B	—	203H25	—	24.71	—	E243508	112	B30	30	9.22	2.19	14.64	1.50	4.38	4.88	2.41	1.58	4.44
HXT315E	—	203H15	—	14.88	—	E243507	—						15.45			5.75	2.38		
HXT309E	—	203H09	—	8.91	—	E243506	—		B30	30	—	—	15.45	—	—	5.75	2.38	—	—
HXT409E	—	—	207H09	9.67		E244531	—	143	B30	30	10	2.44	16.13	1.75	4.81	6.19	2.38	1.81	4.75
HXT415E	HXT425E	207H15	207H25	15.13	24.38	E244532	E244533 ♣												
—	HXT525E	—	215H25	—	25.56	—	E245558	212	B30	30	10.5	2.94	16.88	1.81	5.63	6.50	2.38	1.94	5.50
HXT515E	—	215H15	—	15.40	—	E245557	—		B40	55			17.63			7.25	3.06		
HXT509E	—	215H09	—	8.95	—	E245556	—						17.63	—	—	7.25	3.06	—	—
HXT615E	HXT625E	307H15	307H25	15.33	25.13	E246154 ♣	E246155 ♣	293	B40	55	11.5	3.44	18.58	1.81	6.13	8.28	3.06	1.94	5.70
—	HXT725E	—	315H25	—	24.59	—	E247165 ♣	470	B40	55	12.81	3.94	19.16	2.06	7.25	9.30	3.06	2.16	6.34
HXT715E	—	315H15	—	15.23	—	E247164 ♣	—		B50	106			22.75			9.30	3.69		

Reducer size	L	R Bolt	S	T		U	V	W	X	Z	CC	GG*	HH
				Min.	Max.								
HXT1E	1.06	0.38	2.50	23.81	29.63	7.13	3.75	3.19	9.94	1.91	4.50	3.51—3.68	0.94
HXT2E	1.25	0.44	3.00	26.94	32.94	8.38	4.13	3.75	11.41	2.13	4.56	4.09—4.26	1.06
HXT3E	1.25	0.44	3.00	26.94	32.94	9.25	4.81	4.19	12.88	2.31	6.38	4.63—4.81	1.06
HXT4E	1.44	0.50	4.00	29.19	35.19	10.38	5.50	4.78	15.13	2.75	6.88	4.74—4.92	1.75
HXT5E	1.44	0.50	4.00	29.19	35.19	13.13	6.56	5.69	18.31	3.06	7.06	4.77—5.03	1.75
HXT6E	2.75	0.63	4.75	29.19	35.19	15.13	7.56	6.75	21.31	4.09	7.63	5.34—5.61	2.00
HXT7E	2.75	0.63	4.75	29.44	35.44	18.75	9.38	8.31	25.94	5.13	8.13	5.78—6.04	2.00

Note: All reducers on this page require bushings. Stock HXT gear reducers are drilled for vertical mounting Reducer includes motor adapter.

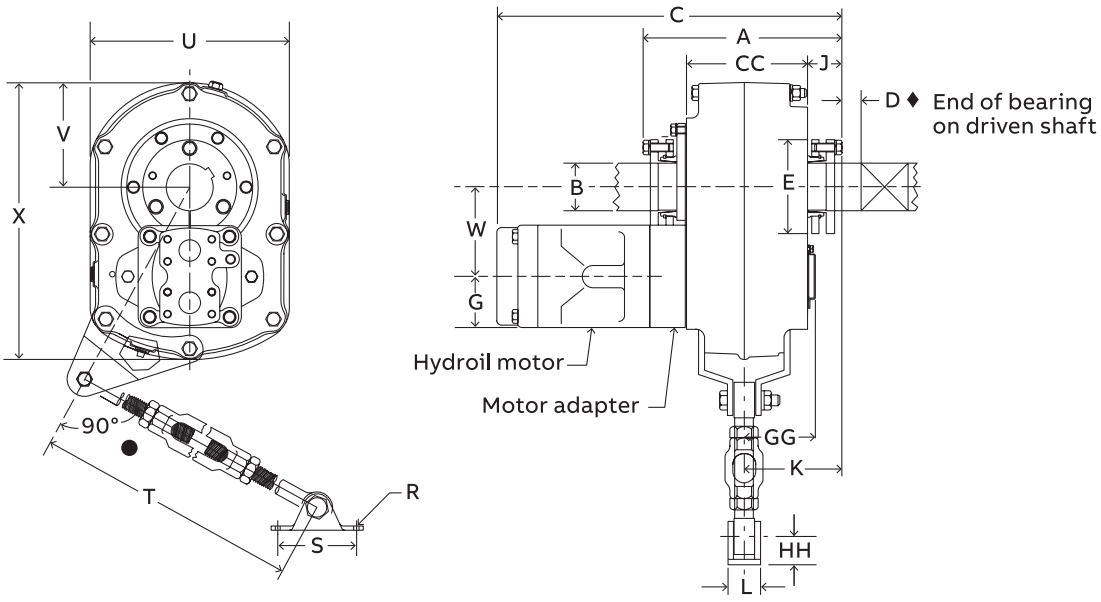
♥ See pages G3-22 through G3-49 for bore and keyseat information and bushing part numbers.

♣ Made to order.

* GG first number without backstop - second number with backstop

HXT105—HXT505

Single-reduction taper-bushed



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

u Recommended minimum distance to loosen bushing using bushing screws as jack screws.

l The ideal position for the TA is at right-angles to a line between the point of attachment of the TA to the reducer and the output shaft. This may vary up to +/- 20 degrees in tension, and +/- 20 degrees in compression.

Caution: Exceeding the position variance of the TA could result in excessive reaction load and result in damage to the equipment.

HXT105—HXT505A single-reduction taper-bushed reducers

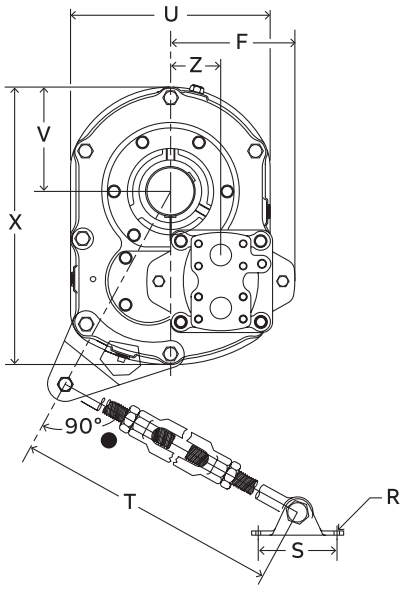
Reducer size	AGMA code	Gear ratio	Part number	Reducer Wt	Hydroil motor		A	B Max. bore ♥	C	D	E	G	J	K	L
					Size	Weight (lb)									
HXT105E	107H05	5.62	241085	44	B30	30	5.63	1.44	14.97	1.25	3.25	2.38	1.28	3.53	1.06
HXT205E	115H05	5.29	242251	56	B30	30	5.81	1.94	15.25	1.25	4.06	2.38	1.38	3.66	1.25
HXT305E	203H05	5.60	253153 ♣	90	B40	55	6.88	2.19	17.66	1.5	4.38	3.06	1.58	4.44	1.25
HXT405E	207H05	5.65	254202 ♣	126	B40	55	7.81	2.44	18.69	1.75	4.81	3.06	1.81	4.75	1.44
HXT505E	215H05	5.67	255202 ♣	186	B50	106	8.38	2.94	22	1.81	5.63	3.69	1.92	4.13	1.44

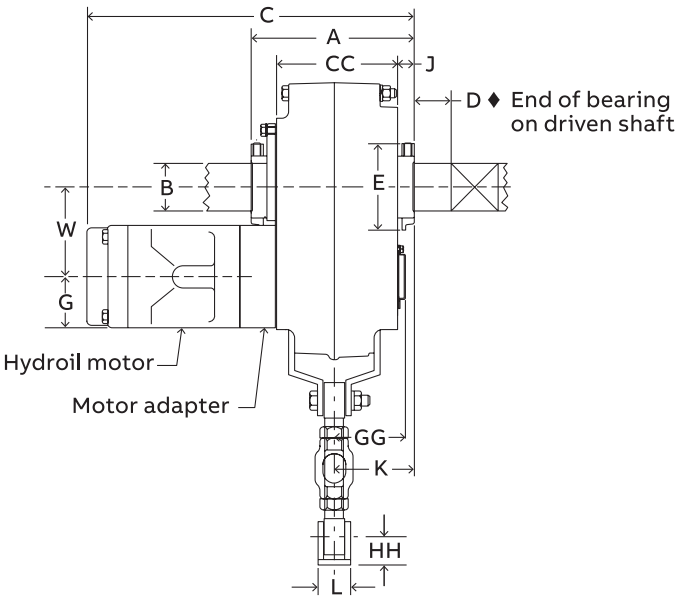
Reducer size	R Bolt	S	T		U	V	W	X	CC	GG	HH
			Min.	Max.							
HXT105E	0.38	2.50	23.81	29.63	7.13	3.75	3.25	9.94	4.50	2.64	0.94
HXT205E	0.44	3.00	26.94	32.94	8.50	4.13	3.88	11.41	4.56	2.83	1.06
HXT305E	0.44	3.00	26.94	32.94	9.25	4.81	4.28	12.88	6.38	3.25	1.06
HXT405E	0.50	4.00	29.19	35.19	10.38	5.50	4.88	15.13	6.88	3.38	1.75
HXT505E	0.50	4.00	29.19	35.19	13.13	6.56	5.88	18.31	7.06	4.50	1.75

Note: All reducers on this page require bushings. Stock HXT gear reducers are drilled for vertical mounting Reducer includes motor adapter.
♥ See pages G3-22 through G3-49 for bore and keyseat information and bushing part numbers.
♣ Made to order.

HXT1E—HXT7E

Double-reduction straight bore





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

- The ideal position for the TA is at right-angles to a line between the point of attachment of the TA to the reducer and the output shaft. This may vary up to +/- 20 degrees in tension, and +/- 20 degrees in compression.

Caution: Exceeding the position variance of the TA could result in excessive reaction load and result in damage to the equipment.

HXT1E—HXT7E double-reduction straight bore reducers

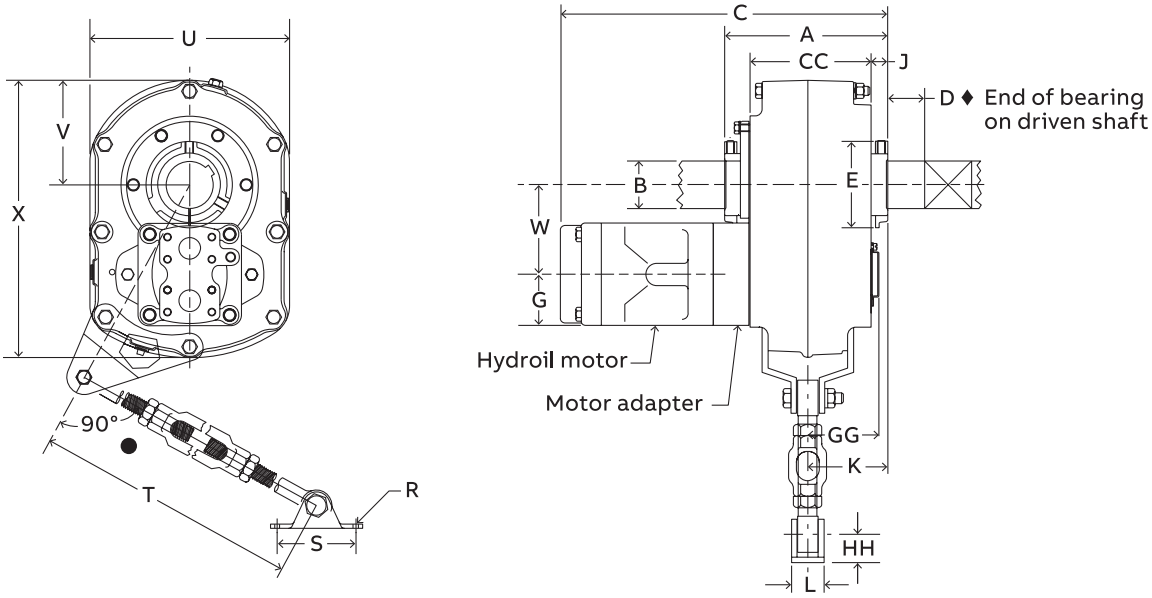
Reducer size		AGMA code		Gear ratio		Part number		Wt. (lb)	Hydroil motor		A	B Max. bore ♥	C	D	E	F	G	J	K
15:1	25:1	15:1	25:1	15:1	25:1	15:1	25:1		Size	Wt. (lb)									
—	HXT125E	—	107H25	—	25.64	—	E241078	49	A10	11	5.63	1.44	12.50	3.19	4.47	2.41	0.56	2.81	1.06
HXT115E	—	107H15	—	15.35	—	E241077	—		A20										
HXT215E	HXT225E	115H15	115H25	14.10	23.46	E242094	E242095	65	A20	11	5.81	1.94	12.63	3.56	4.69	2.41	0.63	2.91	1.25
—	HXT325E	—	203H25	—	24.71	—	E243520	112	A20	11	7.81	2.19	13.69	4.00	4.88	2.41	0.63	2.47	1.25
HXT315E	—	203H15	—	14.88	—	E243519	—		B30	30			14.50		5.75	2.38			
HXT309	—	203H09	—	8.91	—	E243518	—	—	B30	30	—	—	14.50	—	5.75	2.38	—	—	—
HXT415E	HXT425E	207H15	207H25	15.13	24.38	E244544	E244545	143	B30	30	8.22	2.44	15.16	4.38	6.19	2.38	0.84	3.88	1.44
HXT409E	—	207H15	—	9.65	—	E244543	—	143	B30	30									
—	HXT525E	—	215H25	—	25.56	—	E245570	212	B30	30	8.66	2.94	15.94	5.13	6.50	2.38	1.00	4.13	1.44
HXT515E	—	215H15	—	15.40	—	E245569	—		B40	55			16.69		7.25	3.06			
HXT509E	—	215H09	—	8.95	—	E245568	—		B40	55	—	—	16.69	—	7.25	3.06	—	—	—
HXT615E	HXT625E	307H15	307H25	15.33	25.13	E246162	E246163	293	B40	55	9.63	3.44	17.69	5.63	8.28	3.06	1.00	4.81	2.75
—	HXT725E	—	315H25	—	24.59	—	E247173	470	B40	55	10.78	3.94	18.19	6.69	9.31	3.06	1.14	5.39	2.75
HXT715E	—	315H15	—	15.23	—	E247172	—		B50	106			21.50		8.38	3.69			

Reducer size	R Bolt	S	T		U	V	W	X	Z	CC	GG*	HH
			Min.	Max.								
HXT1E	0.38	2.50	23.81	29.63	7.13	3.75	3.19	9.94	1.91	4.50	3.51—3.68	0.94
HXT2E	0.44	3.00	26.94	32.94	8.38	4.13	3.75	11.41	2.13	4.56	4.09—4.26	1.06
HXT3E	0.44	3.00	26.94	32.94	9.25	4.81	4.19	12.88	2.31	6.38	4.63—4.81	1.06
HXT4E	0.50	4.00	29.19	35.19	10.38	5.50	4.78	15.13	2.75	6.88	4.74—4.92	1.75
HXT5E	0.50	4.00	29.19	35.19	13.13	6.56	5.69	18.31	3.06	7.06	4.71—5.03	1.75
HXT6E	0.63	4.75	29.19	35.19	15.13	7.50	6.75	21.31	4.09	7.63	5.34—5.61	2.00
HXT7E	0.63	4.75	29.44	35.44	18.75	9.38	8.31	25.94	5.13	8.50	5.78—6.04	2.00

Note: All reducers on this page require bushings. Stock HXT gear reducers are drilled for vertical mounting reducer includes motor adapter.
♥ See pages G3-22 through G3-49 for bore and keyseat information and bushing part numbers.
♠ Made to order.
* GG first number without backstop - second number with backstop

HXT105E—HXT505E

Single-reduction straight bore



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

- The ideal position for the TA is at right-angles to a line between the point of attachment of the TA to the reducer and the output shaft. This may vary up to +/- 20 degrees in tension, and +/- 20 degrees in compression.

Caution: Exceeding the position variance of the TA could result in excessive reaction load and result in damage to the equipment.

HXT105—HXT505A single-reduction straight bore reducers

Reducer size	AGMA code	Gear Ratio	Part number	Reducer Wt	Hydroil motor		A	B Max. bore ♥	C	D	E	G	J	K	L
					Size	Weight (lb)									
HXT105ES	107H05	5.62	241089 ♣	44	B30	30	5.63	1.44	14.25	3.19	2.38	0.56	2.81	1.06	—
HXT205ES	115H05	5.29	242255	56	B30	30	5.81	1.94	14.5	3.56	2.38	0.63	2.91	1.25	—
HXT305ES	203H05	5.60	253157	90	B40	55	7.41	2.19	16.69	4	3.06	0.63	4.44	1.25	—
HXT405ES	207H05	5.65	254206 ♣	126	B40	55	8.22	2.44	17.72	4.38	3.06	0.84	4.75	1.44	—
HXT505ES	215H05	5.67	255206 ♣	186	B50	106	8.66	2.94	21.06	5.13	3.69	1	4.13	1.44	—

Reducer size	R Bolt	S	T		U	V	W	X	CC	GG	HH
			Min.	Max.							
HXT105E	0.38	2.5	23.81	29.63	7.13	3.75	3.25	9.94	4.5	2.64	0.94
HXT205E	0.44	3	26.94	32.94	8.5	4.13	3.88	11.41	4.56	2.83	1.06
HXT305E	0.44	3	26.94	32.94	9.25	4.81	4.29	12.88	6.38	3.25	1.06
HXT405E	0.5	4	29.19	35.19	10.38	5.5	4.88	15.13	6.88	3.38	1.75
HXT505E	0.5	4	29.19	35.19	13.13	6.56	5.88	18.31	7.06	4.15	1.75

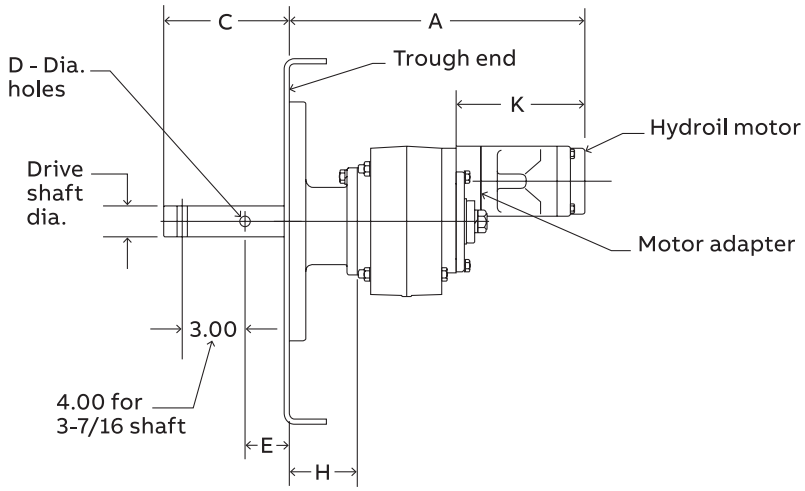
Note: All reducers on this page require bushings. Stock HXT gear reducers are drilled for vertical mounting reducer includes motor adapter.

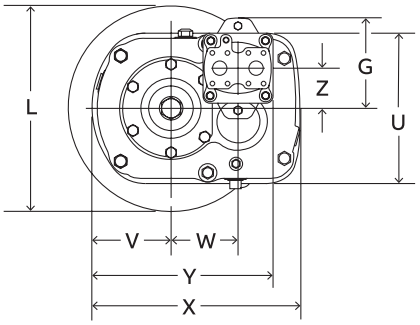
♥ See pages G3-22 through G3-49 for bore and keyseat information and bushing part numbers.

♣ Made to order.

HSCXT1E—HSCXT7E

Double-reduction





HSCT1A—HSCXT7A double-reduction screw conveyor drives †

Reducer size	Drive shaft dia.	To fit screw dia.	Hydroil motor		Parts when ordering separately												
					Reducer ■			CEMA Driveshaft ~						Adapter			
					Part number									Assy. ▲			
			Size	Wt. (lb)	15:1	25:1	Wt. (lb)	Size	Part number	Weight (lb)	C	D	E	Size	Part number	Wt. (lb)
HSCXT115E	1-1/2	6, 9	A20	11	E351191	E351192	46	C1 x 1-1/2	351094	7.2	6.00	0.52	2.13	C1A	351086	17
	2	9, 12						C1 x 2	351095	9.1	6.00	0.64	2.13			
HSCXT125E	2-7/16	12, 14	A10				46	C1 x 2-7/16	351096	12.5	6.69	0.64	2.75			
	3	12—20						C1 x 3	351097	17.4	6.88	0.77	2.88			
HSCXT215E	1-1/2	6, 9	A20	11	E352191	E352192	58	C2 x 1-1/2	352090	11.4	6.00	0.52	2.13	C2A	352052	20
	2	9, 12						C2 x 2	352091	13.8	6.00	0.64	2.13			
HSCXT225E	2-7/16	12, 14					58	C2 x 2-7/16	352092	17.3	6.69	0.64	2.75			
	3	12—20						C2 x 3	352093	22.1	6.88	0.77	2.88			
HSCXT315E	1-1/2	9	B30	11	E243528	E243529	90	C3A x 1-1/2	243562	13.5	6.00	0.52	2.13	C3	353047	27
	2	9, 12						C3A x 2	243563	16	6.00	0.64	2.13			
HSCXT325E	2-7/16	12, 14	A20	30				C3A x 2-7/16	243564	19.5	6.69	0.64	2.75			
	3	12—20						C3A x 3	243565	26	6.88	0.77	2.88			
HSCXT415E	1-1/2	9	B30	30	E244553	E244554	113	C4A x 1-1/2	244594	19	6.00	0.52	2.13	C4	354121	31
	2	9, 12						C4A x 2	244595	20.8	6.00	0.64	2.13			
	2-7/16	12, 14						C4A x 2-7/16	244596	24.3	6.69	0.64	2.75			
HSCXT425E	3	12—20						C4A x 3	244597	29.2	6.88	0.77	2.88			
	3-7/16	18—24						C4A x 3-7/16	244598	29.3	9.13	0.89	3.88			
HSCXT515E	2	9, 12	B40	30	E245578	E245579	165	C5B x 2	355175	29.4	6.00	0.64	2.13	C5	355072	43
	2-7/16	12, 14						C5B x 2-7/16	355176	33	6.69	0.64	2.75			
HSCXT525E	3	12—20	B30	55				C5B x 3	355177	37.9	6.88	0.77	2.88			
	3-7/16	18— 24						C5B x 3-7/16	355178	48.3	9.13	0.89	3.88			
HSCXT615E	2-7/16	12, 14	B40	55	E356291	E356292	225	C6 x 2-7/16	356042	47.7	6.69	0.64	2.75	C6	356055	56
	3	12— 20						C6 x 3	356043	52.7	6.88	0.77	2.88			
HSCXT625E	3-7/16	18—24						C6 x 3-7/16	356044	63	9.13	0.89	3.88			
HSCXT715E	2-7/16	12, 14	B50	55	E356296	E356297	390	C7 x 2-7/16	356182	65	6.69	0.64	2.75	C7	356187	72
	3	12—20						C7 x 3	356183	70	6.88	0.77	2.88			
HSCXT725E	3-7/16	18—24	B40	106				C7 x 3-7/16	356184	80.3	9.13	0.89	3.88			

† For a complete HSCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.

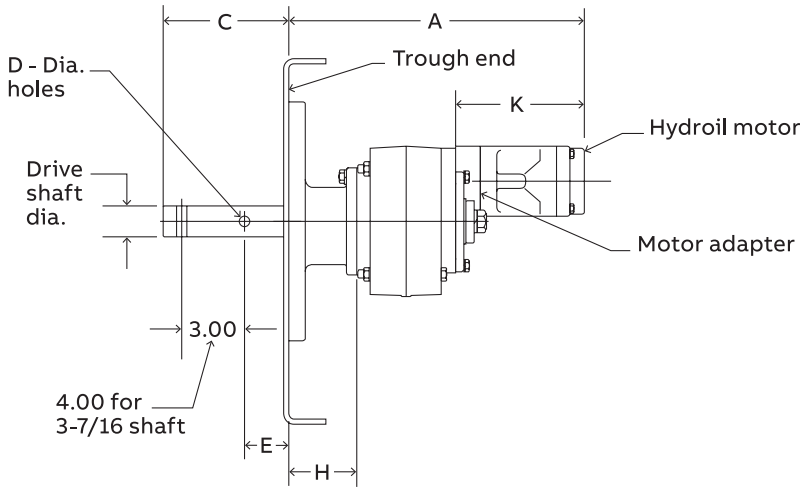
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seals. See page G3-110 for adapter bolt pattern details.

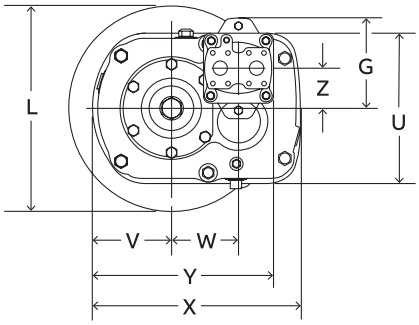
■ Reducer includes hydroil motor adapter.

~ CEMA driveshaft and key furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge Application Engineering at +1 864 284 5700. SCXT style gearboxes are not compatible with backstops

HSCXT1E—HSCXT7E

Double-reduction





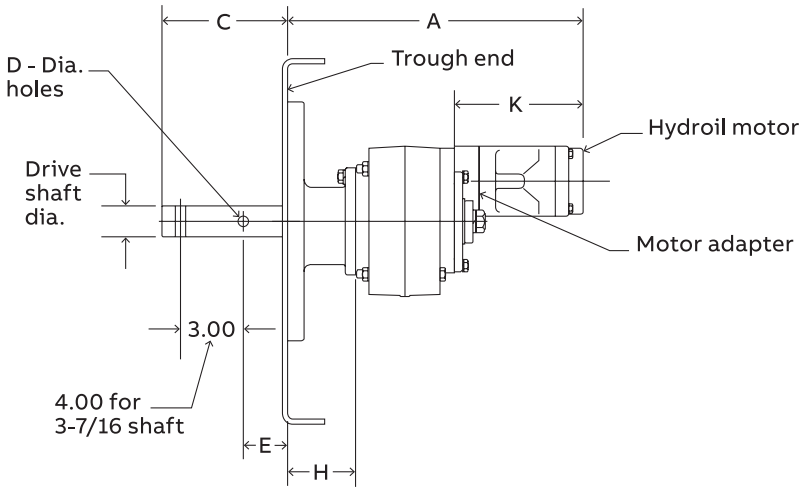
HSCXT1E—HSCXT7E double-reduction screw conveyor drives †

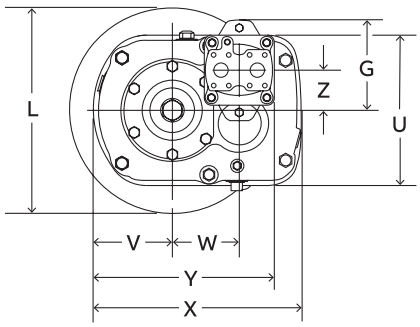
Reducer size	Actual ratio		Max. speed (rpm) of shaft				A	G	H	K	L	U	V	W	X	Y	Z
	15:1	25:1	Input		Driven												
			15:1	25:1	15:1	25:1											
HSCXT1E	15.35	—	2149	—	140	—	15.34	4.47	3.22	7.44	7.00	7.13	3.75	3.38	9.94	9.34	1.91
	—	25.64	—	2179	—	85											
HSCXT2E	14.97	24.92	2096	2118	140	85	15.94	4.69	3.56	7.44	7.00	8.38	4.09	3.77	11.41	10.27	2.14
HSCXT3E	15.26	—	2136	—	140	—	17.81	5.75	3.69	7.44	11.38	9.25	4.84	4.17	13.72	11.39	2.33
	—	25.34	—	2155	—	85	17.00	4.88								11.42	
HSCXT4E	15.30	24.64	2142	2094	140	85	18.44	6.19	4.00	7.38	11.38	10.38	5.50	4.78	15.31	12.66	2.75
HSCXT5E	15.38	—	1919	—	125	—	20.56	7.25	4.25	9.19	11.38	13.13	6.56	5.67	18.31	14.30	3.05
	—	25.54	—	2043	—	80	19.81	6.50		7.75						14.61	
HSCXT6E	15.33	25.13	1895	1985	125	80	21.81	8.28	5.50	9.31	11.38	15.13	7.56	6.73	21.31	17.36	4.09
HSCXT7E	15.23	—	1767	—	116	—	26.28	8.38	6.31	10.56	11.38	18.75	9.38	8.30	25.94	22.11	5.11
	—	24.59	—	1844	—	75	23.00	9.31		8.81						20.36	

† For a complete HSCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seals. See page G3-110 for adapter bolt pattern details.
■ Reducer includes hydroil motor adapter.
~ CEMA driveshaft and key furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge Application Engineering at +1 864 284 5700.
SCXT style gearboxes are not compatible with backstops

HSCXT105E—HSCXT505E

Single-reduction





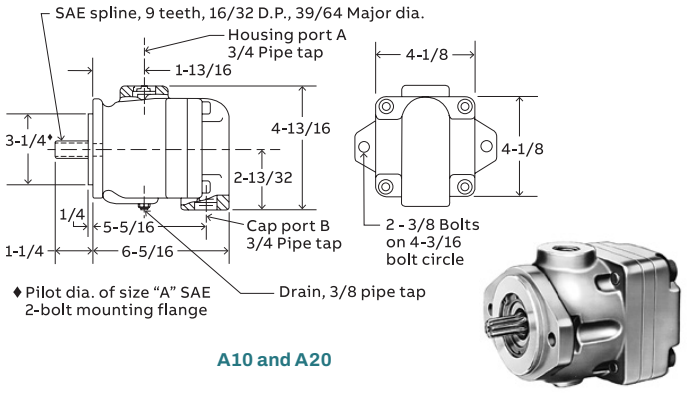
HSCXT105E—HSCXT505E Single-reduction screw conveyor drives †

Reducer size	Drive shaft dia.	To fit screw dia.	Hydroil motor		Parts when ordering separately					C	D	E	Adapter		
					Reducer ■		CEMA Driveshaft ~						Assy. ▲		
			Size	Weight (lb)	Part number	Weight (lb)	Size	Part number	Weight (lb)				Size	Part number	Weight (lb)
HSCXT105E	1-1/2	6, 9	B30	30	351190	41	C1 x 1-1/2	351094	7.2	6.00	0.52	2.13	C1A	351086	17
	2	9, 12					C1 x 2	351095	9.1	6.00	0.64	2.13			
	2-7/16	12, 14				41	C1 x 2-7/16	351096	12.5	6.69	0.64	2.75			
	3	12—20					C1 x 3	351097	14.4	6.88	0.77	2.88			
HSCXT205E	1-1/2	6, 9	B30	30	352190	53	C2 x 1-1/2	352090	11.4	6.00	0.52	2.13	C2A	352052	20
	2	9, 12					C2 x 2	352091	13.8	6.00	0.64	2.13			
	2-7/16	12, 14				53	C2 x 2-7/16	352092	17.3	6.69	0.64	2.75			
	3	12—20					C2 x 3	352093	22.1	6.88	0.77	2.88			
HSCXT305E	1-1/2	9	B40	55	253160	79	C3A x 1-1/2	243562	13.5	6.00	0.52	2.13	C3	353047	27
	2	9, 12					C3A x 2	243563	16.0	6.00	0.64	2.13			
	2-7/16	12, 14					C3A x 2-7/16	243564	19.5	6.69	0.64	2.75			
	3	12—20					C3A x 3	243565	26.0	6.88	0.77	2.88			
HSCXT405E	1-1/2	9	B40	55	254209	101	C4A x 1-1/2	244594	19.0	6.00	0.52	2.13	C4	354121	31
	2	9, 12					C4A x 2	244595	20.8	6.00	0.64	2.13			
	2-7/16	12, 14					C4A x 2-7/16	244596	24.3	6.69	0.64	2.75			
	3	12—20					C4A x 3	244597	29.2	6.88	0.77	2.88			
	3-7/16	18—24					C4A x 3-7/16	244598	39.3	9.13	0.89	3.88			
HSCXT505E	2	9, 12	B50	106	255209	160	C5B x 2	355175	29.4	6.00	0.64	2.13	C5	355072	43
	2-7/16	12, 14					C5B x 2-7/16	355176	33.0	6.69	0.64	2.75			
	3	12—20					C5B x 3	355177	37.9	6.88	0.77	2.88			
	3-7/16	18—24					C5B x 3-7/16	355178	48.3	9.13	0.89	3.88			

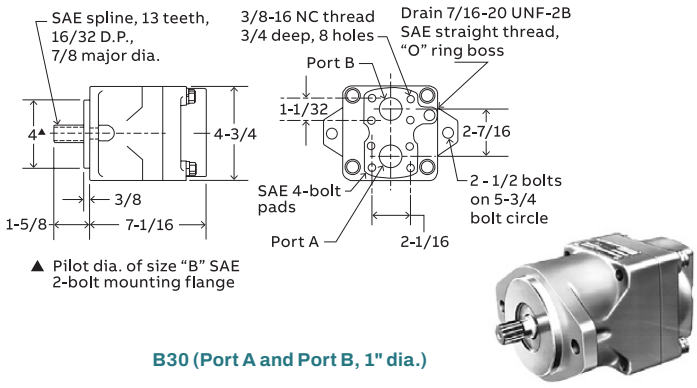
Reducer size	Actual ratio	Max. speed (rpm) of shaft		A	H	K	L	U	V	W	X	Y
		Input	Driven									
HSCXT105E	5.62	2,246	400	16.28	3.22	8.38	7.00	7.13	3.75	3.27	9.94	9.39
HSCXT205E	5.62	2,246	400	16.50	3.56	8.50	7.00	8.38	4.09	3.86	11.41	10.33
HSCXT305E	5.31	2,124	400	20.00	3.69	10.31	11.38	9.25	4.84	4.28	13.72	12.19
HSCXT405E	5.27	2,108	400	21.00	4.00	10.63	11.38	10.38	5.50	4.88	15.94	16.50
HSCXT505E	5.69	2,275	400	22.00	4.25	11.72	11.38	13.00	6.56	5.86	18.31	16.86

† For a complete HSCXT drive, order a reducer, driveshaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seals. See page G3-110 for adapter bolt pattern details.
■ Reducer includes hydroil motor adapter.
~ CEMA driveshaft and key furnished unless otherwise specified. See pages G3-111 through G3-113 for optional driveshafts available from Dodge Application Engineering at +1 864 284 5700. SCXT style gearboxes are not compatible with backstops

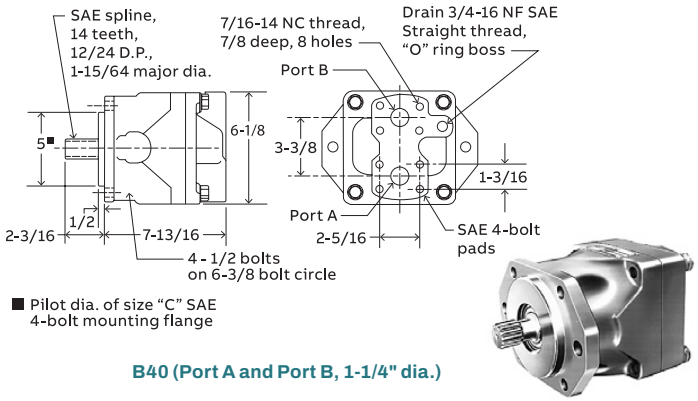
Hydroil vane motors



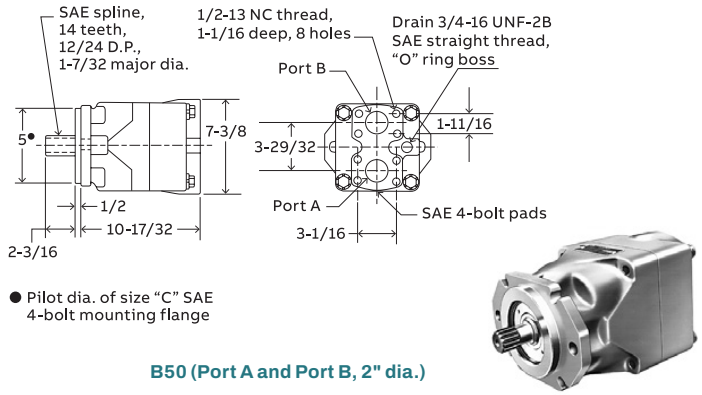
A10 and A20



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



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



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

Hydroil vane motors—are 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 quiet operation. Other exclusive features assure a minimum of friction and efficient valving action regardless of operating speeds.

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

Inlet and outlet ports on sizes A10 and A20 will accommodate standard tapered pipe fittings. Larger sizes will accommodate Society of Automotive Engineers (SAE) split flanges.

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

Hydroil vane motors for HXT gear reducers

Motor size	Part number	Displacement (in3/rev.)	Running torque (in lb/100 psi)	Starting torque (in lb/100 psi)	Flow rate (gpm/100 rmp)	Internal leakage (gpm/1000 psi) *	Minimum motor speed (rpm)	Max operating pressure (psi)	Weight (lb)
A10	444049	0.49	6.9	5.75	0.21	0.49	60	2,000	11
A20	444050	1.14	16.1	13.4	0.50	0.76	60	2,000	11
B30	444054	3.59	51.3	46.2	1.60	1.50	100	2,500	30
B40	444055	6.40	91.8	82.6	2.77	2.67	100	2,500	55
B50	444056	11.69	167.4	150.7	5.10	2.00	100	2,500	106

All dimensions are in inches.

Char-Lynn compatible 6B spline reducer

Related products

HXT reducers with 6B spline, SAE “A” 2-bolt motor flange. Suitable for Char-Lynn H, S, T, and 2000 series motors or equal. This is a modified version of the HXT speed reducer.

- Twin-tapered bushing
- Material cost savings
- Installed cost savings
- Simple installation
- No periodic maintenance cost associated with chain drives
- Eliminate V-drives
- Compact drive design
- Infinitely adjustable speeds/torque
  - Driven machinery can be inched or jogged
  - Direction of rotation can be reversed
  - Low speed, high torque capability
- Shock resistant helical gearing
- Reduced motor costs
- Optimized ratio, flow, and pressure
- No motor drain

Specifications

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

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

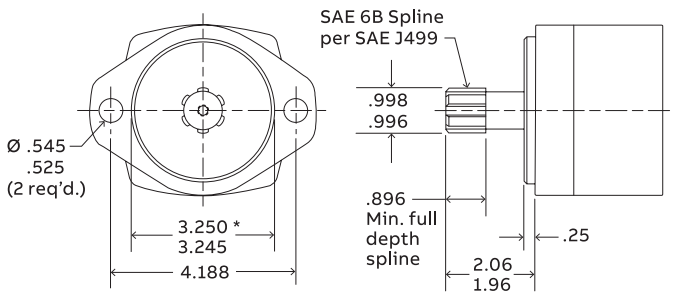
Maximum input and driven speeds for HXT6B reducers

Reducer size	Double-reduction					Single-reduction		
	Input speed (rpm)		Driven speed (rpm)			Reducer size	Input speed (rpm)	Driven
	15	25	9	15	25			
HXT3 6B	—	2,100	200	140	85	HXT105 6B	2,246	400
HXT4 6B	2,118	2,072	200	140	85	HXT205 6B	2,116	400
HXT5 6B	—	2,044	200	125	80	HXT305 6B	2,240	400
HXT6 6B	—	2,010	200	125	80	HXT405 6B	2,280	400
HXT7 6B	—	1,844	200	125	75	HXT505 6B	2,287	400

HXT taper-bushed reducers

Reducer size	Part number	Exact ratios	Max. bore
HXT105ET C/L 6B	251140	5.62	1.44
HXT205ET C/L 6B	252140	5.29	1.94
HXT305ET C/L 6B	253140	5.60	2.19
HXT405ET C/L 6B	254140	5.65	2.44
HXT505ET C/L 6B	255160	5.67	2.94
HXT325ET C/L 6B	E243571	24.71	2.19
HXT415ET C/L 6B	E244556	15.13	2.44
HXT425ET C/L 6B	E244557	24.38	2.44
HXT525ET C/L 6B	E245640	25.56	2.94
HXT625ET C/L 6B	E246520	25.13	3.44
HXT725ET C/L 6B	E247520	24.59	3.94

Motor mounting dimensions



* Pilot dia. of size “A” SAE two-bolt mounting flange

Related products

HXT

Class I - Refer to pages G3-16 through G3-17 to determine appropriate drive service factor for your specific application and duty cycle. Refer to tables below for reducer Class I ratings.

Class II - Refer to pages G3-18 through G3-19 to determine appropriate drive service factor for your specific application and duty cycle. To obtain Class II reducer ratings, divide Class I ratings from the tables below by 1.4.

Class III - Refer to pages G3-20 through G3-21 to determine appropriate drive service factor for your specific application and duty cycle. To obtain Class III reducer ratings, divide Class I ratings from the tables below by 2.0.

Continuous input horsepower - Class I*

Output speed (rpm)	Reducer size HXT105 C/L	HXT205 C/L	HXT305 C/L	HXT405 C/L	HXT505 C/L	HXT325 C/L	HXT415 C/L	HXT425 C/L	HXT525 C/L	HXT625 C/L	HXT725 C/L
1	0.06	0.11	0.16	0.22	0.33	0.17	0.26	0.26	0.44	0.69	1.00
5	0.26	0.52	0.72	1.01	1.55	0.84	1.29	1.29	2.18	3.46	4.98
10	0.50	0.99	1.41	1.96	3.04	1.68	2.52	2.52	4.35	6.89	9.66
20	0.98	1.95	2.45	3.88	6.05	3.30	4.98	4.98	8.38	13.37	18.68
30	1.47	2090	4.14	5.78	8.74	4.90	7.33	7.33	12.24	—	—
40	1.95	3.85	5.51	7.64	11.13	—	9.52	—	—	—	—
50	2.43	4.81	6.88	9.55	13.51	—	11.57	—	—	—	—
60	2.70	5.34	7.92	11.07	—	—	—	—	—	—	—
70	2.95	5.86	8.97	12.46	—	—	—	—	—	—	—
80	3.22	6.38	10.01	13.85	—	—	—	—	—	—	—
90	3.48	6.92	11.06	15.29	—	—	—	—	—	—	—
100	3.75	7.44	12.10	16.83	—	—	—	—	—	—	—
110	3.77	7.48	12.53	—	—	—	—	—	—	—	—
120	3.98	7.92	13.46	—	—	—	—	—	—	—	—
130	4.21	8.37	14.41	—	—	—	—	—	—	—	—
140	4.42	8.81	—	—	—	—	—	—	—	—	—
150	4.66	9.27	—	—	—	—	—	—	—	—	—
160	4.87	9.71	—	—	—	—	—	—	—	—	—

* Input hp—hp rating of reducer at input shaft under continuous operation after load has been started

Continuous output torque - Class I**

Output speed (rpm)	Reducer size HXT105 C/L	HXT205 C/L	HXT305 C/L	HXT405 C/L	HXT505 C/L	HXT325 C/L	HXT415 C/L	HXT425 C/L	HXT525 C/L	HXT625 C/L	HXT725 C/L
1	3,470	6,980	9,580	13,500	20,100	10,400	16,000	16,000	27,000	42,700	61,600
5	3,200	6,380	8,950	12,500	19,200	10,400	16,000	16,000	27,000	42,700	61,600
10	3,100	6,140	8,700	12,100	18,800	10,400	15,600	15,600	26,900	42,600	59,700
20	3,040	6,020	8,580	12,000	18,700	10,200	15,400	15,400	25,900	41,300	57,700
30	3,020	5,980	8,530	11,900	18,000	10,100	15,100	15,100	25,200	—	—
40	3,010	5,950	8,510	11,800	17,200	—	14,700	—	—	—	—
50	3,000	5,940	8,500	11,800	16,700	—	14,300	—	—	—	—
60	2,780	5,500	8,160	11,400	—	—	—	—	—	—	—
70	2,600	5,170	7,920	11,000	—	—	—	—	—	—	—
80	2,490	4,930	7,730	10,700	—	—	—	—	—	—	—
90	2,390	4,750	7,590	10,500	—	—	—	—	—	—	—
100	2,320	4,600	7,480	10,400	—	—	—	—	—	—	—
110	2,120	4,200	7,040	—	—	—	—	—	—	—	—
120	2,050	4,080	6,930	—	—	—	—	—	—	—	—
130	2,000	3,980	6,850	—	—	—	—	—	—	—	—
140	1,950	2,890	—	—	—	—	—	—	—	—	—
150	1,920	3,820	—	—	—	—	—	—	—	—	—
160	1,880	3,750	—	—	—	—	—	—	—	—	—

** Output torque—Continuous output torque rating of reducer (lb-in)

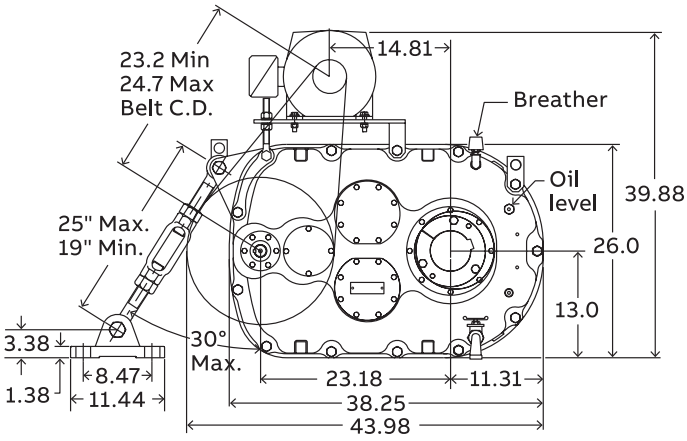
Peak hp—Momentarily, peak horsepower may be very high. For example, in applications with high inertia loads, oversize or high torque motors, etc. Where this momentary peak exceeds 200 percent of normal (100 percent overload) the equivalent hp may be obtained by dividing the peak hp by two. If the results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

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

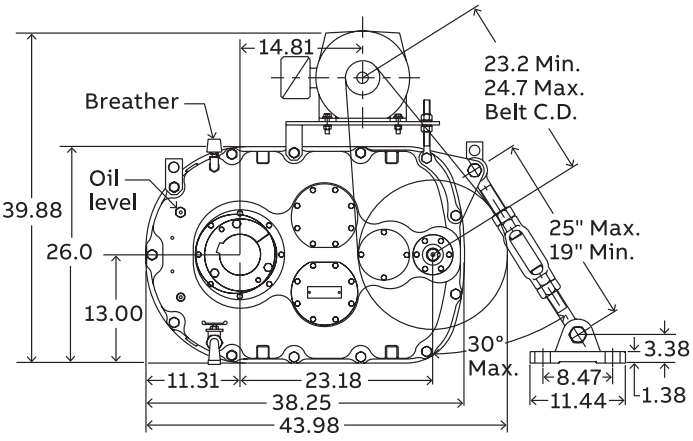
Industry-specific reducers

BioDisc reducer

Industrial biological contact drive for wastewater treatment



#188D L.H. Bio-disc assembly



#188D R.H. Bio-disc assembly

All dimensions are in inches.

Product specification

The speed reducer shall be either a belt driven or direct coupled enclosed shaft-mount type unit with a triple reduction ratio of 170.44:1. The reducer shall mount directly on the driven shaft and utilize an adjustable tie rod that attaches to the support structure or foundation.

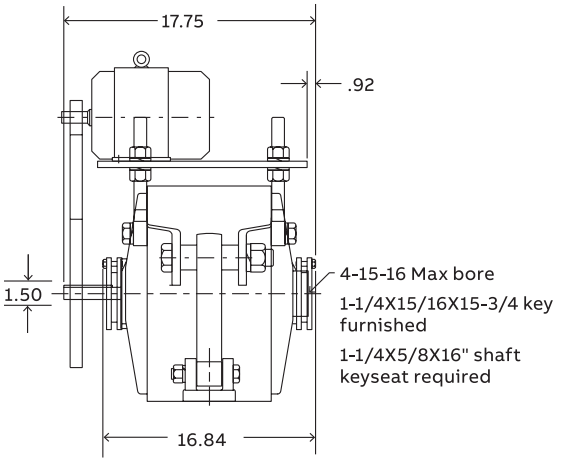
The reducer housing shall be constructed of two-piece corrosion resistant, gray iron and be ribbed for added strength. All housings shall be doweled and precision machined to assure accurate alignment for all gear sets. The reducer housing shall be painted with primer plus two coats of epoxy ester enamel to minimize corrosion.

All gearing shall be of helical or spur design, and ground to provide an ellipsoid tooth to eliminate tooth end bearing and assure meshing at the strongest tooth area. All gears shall be case carburized to ensure a high surface durability with a resilient tooth core for greater impact resistance and long service life. Gears shall be supported between bearings to maintain proper alignment on gear meshes, to maximize load carrying capabilities, and eliminate overhung loads imposed on bearings. The gears shall be rated for 7.5 horsepower at 1.5 rpm (Class 1 service) and 5 horsepower at 1.5 rpm (Class II service).

All seals shall be of the lip, spring loaded type, harsh-duty design.

Reducer gears and bearings shall be splash lubricated using a quality petroleum base oil, containing anti-foamants and rust inhibitors. All BioDisc reducers are factory filled with lube.

Reducer installation shall be accomplished by using ductile iron, fully split twin-tapered bushings. The maximum and preferred bore shall be 4-15/16 inches. Reducer removal shall be accomplished by providing jack screw holes in the bushing flanges to mechanically remove the tapered assembly.



188D BioDisc drive products

5 hp Class 2.0 service factor reducer	Part number
BioDisc drive reducer and accessories*	259168
BioDisc V-drive kit**	BIO DR KIT
188D Universal metal belt guard	963763
188D Fiberglass belt guard	966987
Baldor 5 hp, 1200 rpm, NEMA Premium Efficient, severe duty, ECP, 210 frame, TEFC motor	ECP3768T
OPTIFY Performance Sensor	820000
7.5 hp Class 1.0 service factor reducer	**Part number**
BioDisc drive reducer and accessories*	259168
BioDisc V-drive kit**	BIO DR KIT
188D Universal metal belt guard	963763
188D Fiberglass belt guard	966987
Baldor 7.5 hp, 1200 rpm, NEMA Premium Efficient, severe duty, ECP, 250 frame, TEFC motor	ECP2276T

*Includes gearbox, bushings, motor mount, tie rod, and breather
**Includes bushings, sheaves, and belt for 5 hp and 7.5 hp motors

TXT-ABHS reducers

For airport baggage handling system conveyors



TXT-ABHS reducers

Size	Part number
TXT125ET ABHS Reducer ▲	E241153 +
TXT115ET ABHS Reducer ▲	E241155 +
TXT109ET ABHS Reducer ▲	E241154 +
TXT105ET ABHS Reducer ▲	251120
TXT225ET ABHS Reducer ▲	E242258
TXT215ET ABHS Reducer ▲	E242257
TXT205ET ABHS Reducer ▲	E242259
TXT209ET ABHS Reducer	252120
TXT325ET ABHS Reducer	E243251
TXT315ET ABHS Reducer	E243252
TXT309ET ABHS Reducer	E242253
TXT305ET ABHS Reducer	253199
TXT425ET ABHS Reducer	E244251
TXT415ET ABHS Reducer	E244252
TXT409ET ABHS Reducer	E244253
TXT405ET ABHS Reducer	254199
TXT525ET ABHS Reducer	E245251
TXT515ET ABHS Reducer	E245252
TXT509ET ABHS Reducer	E245253
TXT505ET ABHS Reducer	255199
TXT 1 ABHS TA Assembly ~	241213
TXT 2 ABHS TA Assembly ~	242280
TXT 3 ABHS TA Assembly ~	243254
TXT 4 ABHS TA Assembly ~	244254
TXT 5 ABHS TA Assembly ~	245254

\+ 15/16" diameter input shaft
▲ Backstops not available
~ TA assembly does not come with the TXT-ABHS reducer. It must be ordered separately by the above part number
▲ Check driven shaft and key for strength

Tapered bushing assemblies

Stock bore	Reducer	Size	Part number
1-7/16 (Max.)	TXT1 ABHS	TDT1	241292
1-3/8			241294
1-5/16 ▲			241290
1-1/4 ▲			241288
1-3/16 ▲			241286
1-1/8 ▲			241282
1-1/16 ▲			241280
1 ▲			241278
1-15/16 (Max.)	TXT2 ABHS	TDT2	242168
1-3/4			242166
1-11/16			242164
1-5/8 ▲			242162
1-1/2 ▲			242158
1-7/16 ▲			242156
1-3/8 ▲			242154
1-5/16			242152
1-1/4 ▲			242150
1-3/16 ▲			242148
1-1/8 ▲			242146
2-3/16 (Max.)	TXT3 ABHS	TDT3	243276
2			243274
1-15/16			243272
1-7/8 ▲			243270
1-3/4 ▲			243266
1-11/16 ▲			243268
1-5/6 ▲			243264
1-1/2 ▲			243262
1-7/16 ▲			243260
1-3/6 ▲			243284
1-5/16 ▲			243282
2-7/16 (Max.)	TXT4 ABHS	TDT4	244115
2-1/4 ▲			244113
2-3/16 ▲			244111
2-1/8 ▲			244109
2 ▲			244095
1-15/16 ▲			244093
1-3/4 ▲			244087
1-11/16 ▲			244085
1-1/2 ▲			244081
1-7/16 ▲			244079
2-15/16 (Max.)	TXT5 ABHS	TDT5	245112
2-11/16			245110
2-7/16 ▲			245094
2-1/4 ▲			245092
2-3/16 ▲			245090
2 ▲			245088
1-15/16 ▲			245086

TA reducers shall be either a belt driven or direct coupled enclosed shaft-mount type unit with a single or double-reduction ratio. The reducer shall mount directly on the driven shaft and utilize an adjustable TA that attaches from the gear case to the support structure or foundation.

The reducer housing shall be constructed of two-piece corrosion resistant, gray or ductile iron. All housings shall be doweled and precision machined.

All gearing shall be helical design and crown shaved. All gears shall be case carburized to ensure a high surface durability with a resilient tooth core for greater impact resistance and longer service life. Gears shall be supported between bearings to maintain proper alignment of gear meshes.

Reducer bearings shall be ball or tapered roller type. All seals are premium material for continuous duty operation. Dual seals and V-ring seal on input.

Reducer gears and bearings shall be splash lubricated using a premium lubricant. Reducer installation shall be accomplished by using ductile iron, fully split twin-tapered bushings.

Reducer removal shall be accomplished by providing jack screw holes in the busing flanges to mechanically remove the tapered assembly.

TXT-ABHS reducers

For airport baggage handling system conveyors

Twin-tapered mounting to the driven shaft

Material cost savings

- Eliminates support structures
- Eliminates chain, sprocket, or coupling alignment

Installed cost savings

- No installation and alignment of motors or gearbox
- Simple installation and motor alignment

Compact flexible drive design

- Space savings
- Reducer mounts 360 degrees around the shaft

Flexibility to change output speed

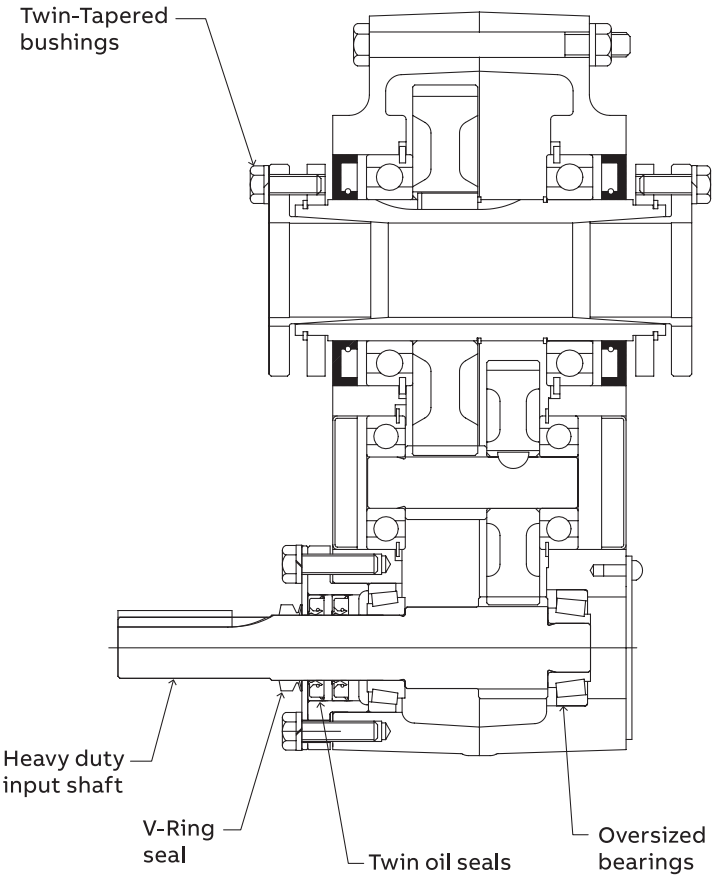
- Ease of changing V-belt drives
- Economical to change speeds
- Ability to fine tune speeds when required

Efficiency

- 98.5 percent per gear stage

Hollow bore

- Patented twin-tapered bushings
- Wide range of bore sizes



Performance

- Oversized input bearings and shaft for extended duty hours and service
- New premium material oil seals for continuous duty operation
- 100 percent factory tested and shipped with mobil DTE-BB premium lubrication
- Zinc plated torque arm rods for corrosion resistance
- Field-proven for over 50 years
- Maintenance-free design
- Ease of repair, fewer spares, high parts availability

Interchanges with standard TXT dimensions and ratios

Meets or exceeds AGMA standards

Notes

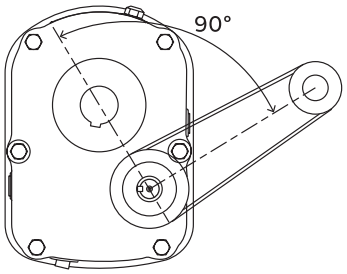
Engineering and technical data
V-belt drives

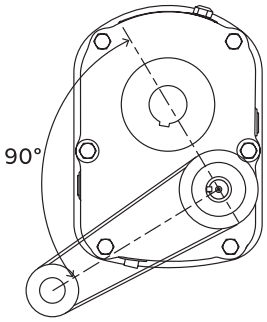
These are typical drives for average service conditions. For other conditions, output speeds or motor speeds, see reducer specifications for minimum driven sheave diameter and use V-belt drive selection tables.

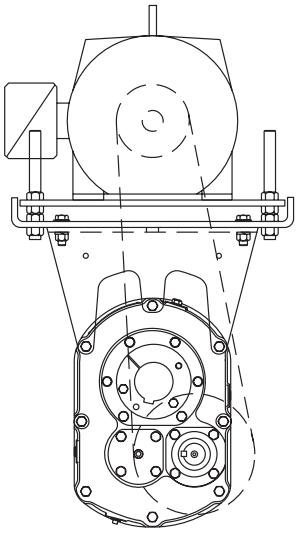
For adequate horsepower, 3v, 5v, and 8v sheaves require 3VX, 5VX, and 8VX belts; and A, B, C, and D sheaves require AX, BX, CX, and DX belts.

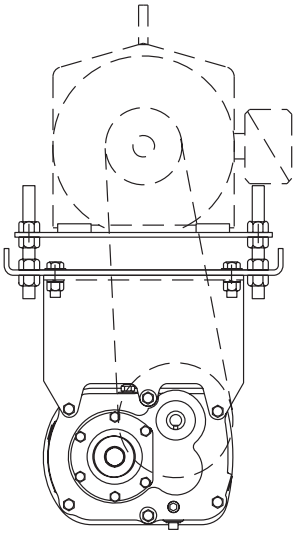
Keep driven sheave as close to reducer housing as possible.

The belt drive may be located in any convenient position. If the TA is to be used to tighten the belts, the drive should be at about 90 degree to a line between the input and output shafts.









NEMA motor information (1,750 rpm)

Horsepower	NEMA motor frame	Shaft diameter	Minimum sheave diameters
1	143T	7/8	2.20
1-1/2	145T	7/8	2.40
2	145T	7/8	2.40
3	182T	1-1/8	2.40
5	184T	1-1/8	3.00
7-1/2	213T	1-3/8	3.00
10	215T	1-3/8	3.80
15	254T	1-5/8	4.40
20	256T	1-5/8	4.40
25	284T	1-7/8	4.40
30	286T	1-7/8	5.20
40	324T	2-1/8	6.00
50	326T	2-1/8	6.80
60	364T	2-3/8	7.40
75	365T	2-3/8	8.60
100	405T +	2-7/8	8.60
125	444T +	3-3/8	10.50
150	445T +	3-3/8	10.50
200	447T +	3-3/8	13.20

+ Energy efficient (TEFC-XE) frame

Minimum sheave diameters for TA reducers

TXT, SCXT reducer	Single-reduction		Double-reduction			
	Shaft diameter	5:1	Shaft diameter	9:1	15:1	25:1
1	1-1/8	4.00	3/4	4.0	3.0	3.0
2	1-7/16	3.00	1-1/8	5.0	3.0	3.0
3	1-5/8	7.00	1-1/4	5.0	4.0	4.0
4	1-15/16	7.50	1-7/16	6.5	4.6	4.6
5	2-3/16	9.50	1-15/16	7.0	5.4	5.4
6	2-3/16	6.50	2-3/16	7.0	6.2	6.2
7	2-7/16	7.50	2-7/16	7.0	6.2	6.2
8	2-7/16	9.20	2-7/16	—	6.2	6.2
9	2-7/16	9.50	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

Nominal sheave ratios

Nominal sheave speed (rpm) at input for Dodge reducers – 1,750 motor

5:1		9:1		15:1		25:1	
Reducer output rpm	Nominal reducer ratio	Reducer output rpm	Nominal reducer ratio	Reducer output rpm	Nominal reducer ratio	Reducer output rpm	Nominal reducer ratio
400.00	2,000	200.00	1,800	120.00	1,800	76.00	1,900
395.00	1,975	198.00	1,782	118.00	1,770	74.00	1,850
390.00	1,950	196.00	1,764	116.00	1,740	72.00	1,800
385.00	1,925	194.00	1,746	114.00	1,710	70.00	1,750
380.00	1,900	192.00	1,728	112.00	1,680	68.00	1,700
375.00	1,875	190.00	1,710	110.00	1,650	66.00	1,650
370.00	1,850	188.00	1,692	108.00	1,620	64.00	1,600
365.00	1,825	186.00	1,674	106.00	1,590	62.00	1,550
360.00	1,800	184.00	1,656	104.00	1,560	60.00	1,500
355.00	1,775	182.00	1,638	102.00	1,530	58.00	1,450
350.00	1,750	180.00	1,620	100.00	1,500	56.00	1,400
345.00	1,725	178.00	1,602	98.00	1,470	54.00	1,350
340.00	1,700	176.00	1,584	96.00	1,440	52.00	1,300
335.00	1,675	174.00	1,566	94.00	1,410	50.00	1,250
330.00	1,650	172.00	1,548	92.00	1,380	48.00	1,200
325.00	1,625	170.00	1,530	90.00	1,350	46.00	1,150
320.00	1,600	168.00	1,512	88.00	1,320	44.00	1,100
315.00	1,575	166.00	1,494	86.00	1,290	42.00	1,050
310.00	1,550	164.00	1,476	84.00	1,260	40.00	1,000
305.00	1,525	162.00	1,458	82.00	1,230	38.00	950
300.00	1,500	160.00	1,440	80.00	1,200	36.00	900
295.00	1,475	158.00	1,422	78.00	1,170	34.00	850
290.00	1,450	156.00	1,404	76.00	1,140	32.00	800
285.00	1,425	154.00	1,386	74.00	1,110	30.00	750
280.00	1,400	152.00	1,368	72.00	1,080	28.00	700
275.00	1,375	150.00	1,350	70.00	1,050	26.00	650
270.00	1,350	148.00	1,332	68.00	1,020	24.00	600
265.00	1,325	146.00	1,314	66.00	990	22.00	550
260.00	1,300	144.00	1,296	64.00	960	20.00	500
255.00	1,275	142.00	1,278	62.00	930	18.00	450
250.00	1,250	140.00	1,260	60.00	900	16.00	400
245.00	1,225	138.00	1,242	58.00	870	14.00	350
240.00	1,200	136.00	1,224	56.00	840	12.00	300
235.00	1,175	134.00	1,206	54.00	810	10.00	250
230.00	1,150	132.00	1,188	52.00	780	8.00	200
225.00	1,125	130.00	1,170	50.00	750	6.00	150
220.00	1,100	128.00	1,152	48.00	720	—	—
215.00	1,075	126.00	1,134	46.00	690	—	—
210.00	1,050	124.00	1,116	44.00	660	—	—
205.00	1,025	122.00	1,098	42.00	630	—	—
200.00	1,000	120.00	1,080	40.00	600	—	—
195.00	975	118.00	1,062	38.00	570	—	—
190.00	950	116.00	1,044	36.00	540	—	—
185.00	925	114.00	1,026	34.00	510	—	—
180.00	900	112.00	1,008	32.00	480	—	—
175.00	875	110.00	990	30.00	450	—	—
170.00	850	108.00	972	28.00	420	—	—
165.00	825	106.00	954	26.00	390	—	—
160.00	800	104.00	936	24.00	360	—	—
155.00	775	102.00	918	22.00	330	—	—
150.00	750	100.00	900	20.00	300	—	—
145.00	725	—	—	18.00	270	—	—
140.00	700	—	—	16.00	240	—	—
135.00	675	—	—	14.00	210	—	—
130.00	650	—	—	12.00	180	—	—
125.00	625	—	—	10.00	150	—	—
120.00	600	—	—	—	—	—	—
115.00	575	—	—	—	—	—	—
110.00	550	—	—	—	—	—	—
105.00	525	—	—	—	—	—	—
100.00	500	—	—	—	—	—	—

Lubrication

Engineering and technical



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



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

Lubrication is extremely important for satisfactory operation. The proper oil level as shown on page G3-153, showing oil level plug location, must be maintained at all times. Approximate oil quantities are shown on page G3-153. Frequent inspections with the unit not running and allowing sufficient time for the oil to cool and the entrapped air to settle out of the oil should be made by removing the level plug to see that the level is being maintained. If low, add the proper type and viscosity of lubricant through one of the upper openings until it comes out of the oil level hole. Replace the oil level plug securely. Refer to Tables 1 and 2 for viscosity recommendations.

After an initial operation of about two weeks, the oil should be changed. If desired, this oil may be filtered and reused. Very often, small metal particles will show up in the oil due to the wearing process. After the initial break in period, the lubricant should be drained, magnetic drain plug cleaned, gear case flushed and refilled every 2,500 hours of operation under average industrial operating conditions.



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

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

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

Operating temperatures

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

Lubrication

Table 1 – Oil recommendations

ISO grades for ambient temperatures of 50 °F to 125 °F

Output speed (rpm)	TXT, SCXT, HXT gear reducers													
	1	2	3	4	5	6	7	8	9	10	12	13	14	15
301—400	320	320	220	220	220	220	220	220	220	220	220	220	220	220
201—300	320	320	220	220	220	220	220	220	220	220	220	220	220	220
151—200	320	320	220	220	220	220	220	220	220	220	220	220	220	220
126—150	320	320	320	220	220	220	220	220	220	220	220	220	220	220
101—125	320	320	320	320	220	220	220	220	220	220	220	220	220	220
81—100	320	320	320	320	320	220	220	220	220	220	220	220	220	220
41—80	320	320	320	320	320	220	220	220	220	220	220	220	220	220
11—40	320	320	320	320	320	320	320	320	320	320	220	220	220	220
1—10	320	320	320	320	320	320	320	320	320	320	320	320	320	320

Table 2 – Oil recommendations

ISO grades for ambient temperatures of 15 °F to 60 °F

Output speed (rpm)	TXT, SCXT, HXT gear reducers													
	1	2	3	4	5	6	7	8	9	10	12	13	14	15
301—400	220	220	150	150	150	150	150	150	150	150	150	150	150	150
201—300	220	220	150	150	150	150	150	150	150	150	150	150	150	150
151—200	220	220	150	150	150	150	150	150	150	150	150	150	150	150
126—150	220	220	220	150	150	150	150	150	150	150	150	150	150	150
101—125	220	220	220	220	150	150	150	150	150	150	150	150	150	150
81—100	220	220	220	220	220	150	150	150	150	150	150	150	150	150
41—80	220	220	220	220	220	150	150	150	150	150	150	150	150	150
11—40	220	220	220	220	220	220	220	220	220	220	150	150	150	150
1—10	220	220	220	220	220	220	220	220	220	220	220	220	220	220

Lubricant grade equivalents

ISO	AGMA
150	4
220	5
320	6

Note: Mobil SHC 600 Series oil is recommended for high ambient temperatures

Notes:
1. Assumes auxiliary cooling where recommended in the catalog.
2. Pour point of lubricant selected should be at least 10 °F. lower than expected minimum ambient starting temperature.
3. Extreme pressure EP lubricants are not necessary for average operating conditions. TA internal backstops are not suitable for use with EP lubricants.
4. Special lubricants may be required for food and drug industry applications where contact with the product being manufactured may occur. Consult a lubrication manufacturer's representative for his recommendations.
5. Do not use oils containing additives such as graphite or molybdenum disuphide in the reducer when a backstop is used. These additives will destroy sprag action.
6. For reducers operating in ambient temperatures between -22 °F (-30 °C) and 20 °F (-6.6 °C) use a synthetic hydrocarbon lubricant, 100 ISO grade or AGMA 35 grade (for example - Mobil SHC627). Above 125 °F (51 °C), consult Dodge Application Engineering +1 864 284 5700 for lubrication recommendation.

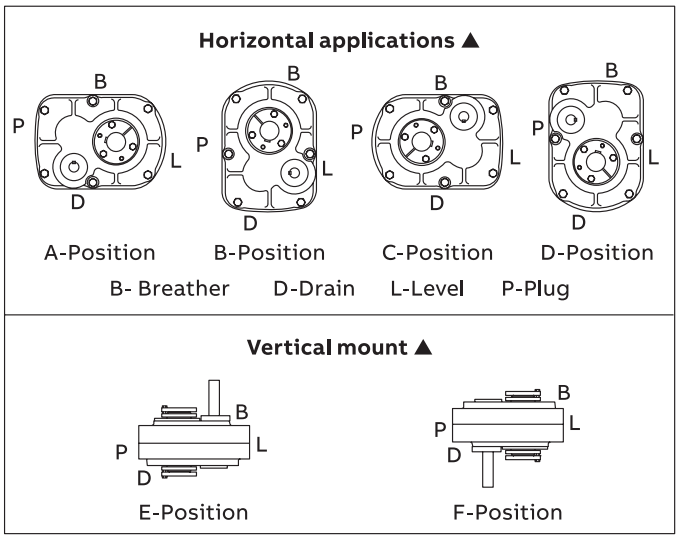
Lubrication

Installation

Horizontal installations - Install the magnetic drain plug in the hole closest to the bottom of the reducer. Throw away the tape that covers the filler/ventilation plug in shipment and install plug in topmost hole. Of the remaining plugs on the sides of the reducer, the lowest one is the minimum oil level plug. For vertical installations install the filler/ventilation plug in the hole provided in the top face of the reducer housing. Use the hole in the bottom face for the magnetic drain plug. Of the remaining holes on the sides of the reducer, use a plug in the upper housing half for the minimum oil level plug.

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

Mounting positions



▲ **Note:** Below 15 rpm output speed, oil level must be adjusted to reach the highest oil level plug (P).

Vertical installations - Install the filter/ventilation plug in the hole provided in the top face of the reducer housing. Use the hole in the bottom face for the magnetic drain plug. Of the remaining holes on the sides of the reducer, use a plug in the upper housing half for the minimum oil level plug.

Approximate oil capacity in quarts ■ ◆

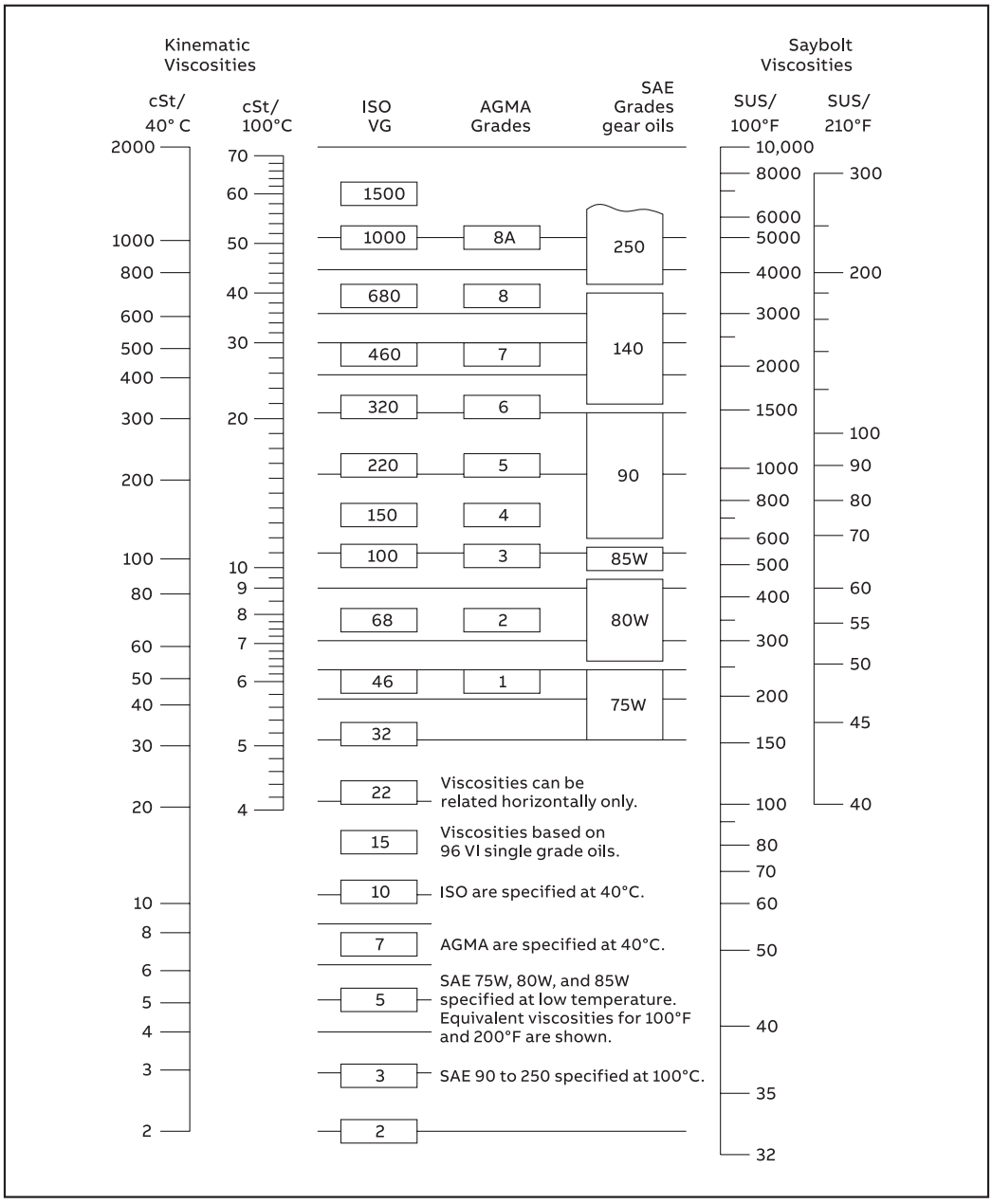
Reducer size	Reducer positions					
TXT	Horizontal				Vertical	
SCXT HXT	A	B	C	D	E	F
109,115,125	1/2	1/2	5/8	3/4	1	1-1/4
105	5/8	3/4	5/8	3/4	1-1/8	1-3/8
209,215,225	7/8	1	5/8	1	1-5/8	1-3/4
205	3/4	7/8	7/8	7/8	1-3/4	2-1/4
309,315,325	1-1/2	1-1/2	3/4	2-1/4	2-5/8	3
305	7/8	1-1/2	1-3/8	1-3/8	2-1/2	3-1/8
409,415,425	1-7/8	2-1/4	1-1/4	1-3/4	3-3/8	4-1/4
405	1-1/2	2-1/4	2-1/8	1-7/8	4	4-7/8
509,515,525	3-1/4	4	3-1/4	4	7	8-5/8
505	3-3/8	4-1/4	3-7/8	3-3/4	7-3/4	9
609, 615, 625	4-1/4	5	4-1/4	5	8-5/8	9-1/8
605	4-1/2	5-3/4	4-1/2	5	12	11
709,715,725	6-1/2	8	7-1/4	9-1/4	15-3/8	16-3/8
705	7-1/2	9	7-1/2	9-1/4	19	17-1/4
815,825	8-1/2	11	10-1/2	8-1/2	19-1/8	19-1/8
805	6	15	10	8-1/2	22	18-3/4
915,926	13	13	12-1/2	14-1/4	25-3/8	25-3/8
905	14-3/4	15	16-1/4	13-3/4	31-7/8	31-7/8
1015, 1024	23	14	15-3/4	18-3/4	41	41
1215, 1225	59	38	59	36-1/2	100	100
TDT1325	86	62	86	59	110	110
TDT1425	120	88	120	61	150	150
TDT1530	197	138	197	170	281	281

■ U.S. Measure: 1 qt. = 32 fluid ounces = 0.94616 liters

◆ Consult Dodge Application Engineering at +1 864 284 5700 for proper oil level for reducers with backstops and which are mounted in C-position or D-position.

Viscosity classification equivalents

Oil viscosity equivalency chart



ISO viscosity classification system

All industrial oils are graded according to the ISO Viscosity Classification System, approved by the International Standards Organizations (ISO). Each ISO viscosity grade number corresponds to the mid-point of viscosity range expressed in centistokes (cSt) at 40°C. For example, a lubricant with an ISO grade of 32 has a viscosity within the range of 28.80—35.2, the midpoint of which is 32.

Rule of thumb

The comparable ISO grade of a competitive product whose viscosity in SUS at 100 °F is known can be determined by using the following conversion formula:

SUS @ 100 °F ÷ 5 = cSt @ 40 °C

Lubrication

TXT lubrication

- Oil level sight gauge. Stock item.
- New Dodge/AGMA/ISO viscosity standards
- New higher viscosity lubricant selections
- Multiple brand options
- Oil level sight glass and sight tube. Stock items - help with visual verification of level.



Oil sight glass



Oil sight tube

Maximizing productivity and uptime is paramount in today's industry. By following some simple recommendations on lubrication, Original Equipment Manufacturers (OEMs) and users can improve product performance and reduce downtime. Remember, the purpose of speed reducer lubrication is to minimize frictional forces, eliminate wear and dissipate heat.

The AGMA and ISO have changed their lubrication standards.

This change was necessitated by the increased horsepower that helical gearing is asked to transmit. As a result, higher ISO viscosity grades have been selected. The proper oil viscosity is based upon ambient temperature and gearing pitch line velocity. Dodge has converted pitch line velocity into reducer output speed (rpm).

Recommended lubricants for TA reducers+

Brand	With or without backstop		EP oils	
Exxon				
150	Teresstic	150	Spartan EP	150
220	Teresstic	220	Spartan EP	220
320	Teresstic	320	Spartan EP	320
Chevron				
150	Machine	150	Gear compound	150
220	Machine	220	EP	220
320	Machine	320	—	320
Unical				
150	Turbine oil	150	Extra Duty HL	141
220	Turbine oil	220	Gear Lube	207
320	Turbine oil	320	—	300
Kluber Synthetic				
150	Gem 4-150N	—	—	—
220	GEM 4-220N	—	—	—
320	GEM 4-320N	—	—	—
Kluber				
150	Gem 4-150N	—	—	—
220	GEM 4-220N	—	—	—
320	GEM 4-320N	—	—	—
Mobil Synthetic				
150	SHC Gear	150	SHC Gear	150
220	SHC Gear	220	SHC Gear	220
320	SHC Gear	320	SHC Gear	320
Mobil				
150	Mobil DTE	BB	Mobil Gear	629
220	Extra Heavy	AA	Mobil Gear	630
320	—	—	Mobil Gear	632
Texaco				
150	Regal Oil R and O	150	Meropa	150
220	Regal Oil R and O	220	Meropa	220
320	Regal Oil R and O	320	Meropa	320
Shell Synthetic				
150	Morlina S4 B	150	—	—
220	Morlina S4 B	220	—	—
320	Morlina S4 B	320	—	—
Shell				
150	Morlina S2 B or S3 BA	150	Omala S2 G	150
220	Morlina S2 B or S3 BA	220	Omala S2 G	220
320	Morlina S2 B or S3 BA	320	Omala S2 G	320

For further lubrication information, refer to TA lubrication manual MN1682 (replaces #499336) or individual product manuals.

+ Partial list. Consult Dodge Application Engineering at +1 864 284 5700 or a lubricant manufacturer for further options.

Renewal parts

TA

TXT rebuild kits - 5:1 ratio

Size	Level 1
TXT105/105E	392379
TXT205/205E	392380
TXT305/305A/305E	392381
TXT405/405A/405E	392382
TXT505/505A/505E	392383
TXT605/605E	392384
TXT705/705E	392385
TXT805	392386
TXT905	392387

SCXT rebuild kits - 5:1 ratio

Size	Level 1
SCXT105/105E	392388
SCXT205/205E	392389
SCXT305/305A/305E	392390
SCXT405/405A/405E	392391
SCXT505/505A/505E	392392
SCXT605/605E	392393
SCXT705/705E	392394

Renewal parts

TA

Pre-packaged rebuild kits for TXT, SCXT, and TA II reducers

TA reducers are designed to achieve optimum service life from all components. Wear does occur over the service life of a reducer, particularly to bearings and seals. To rebuild TA reducers to factory tolerances and specifications, use only genuine Dodge replacement parts.

Preventive actions such as scheduled maintenance and on-site inventory of TA level 1 or level 2 rebuild kits are recommended to minimize the cost of down time. Having replacement parts available before they are needed contributes to a quick return of the machine to productivity. Unexpected machine downtime usually means loss of productivity.

Consider

- Time to diagnose and order replacement parts
- Time waiting for parts to arrive

Each rebuild kit is assigned a unique part number based on reducer size and ratio making selection easy. Kits components are packaged individually and marked for easy identification. Individual components are then over packed and shipped in one clearly marked container that can be dedicated to a specific reducer.

Dodge rebuild kits offer protection and economy. Pricing is structured to offer savings over the purchase of individual components.

Level 1 kit includes:

- Input and output seals
- Complete set of bearings
- Shim kit
- Gearcase sealant
- Instruction manual

Level 2 kit includes:

- First stage input shaft with pinion
- First stage mating gear
- Input and output seals
- Complete set of bearings
- Shim kit
- Gearcase sealant
- Instruction manual

Log on to **ptplace.com** to locate your nearest authorized key parts distributor.

Rebuild kit accessories are available for order



Lubricant

It is important that a rebuilt reducer be refilled with fresh lubricant of the proper viscosity group.

To make this an easy selection we have prepackaged the required volume of factory standard lubricant which may be ordered along with the rebuild kit. See Accessory table for kit part numbers.



Touch-up paint

To restore damaged paint following the rebuild you may order Dodge part number 810001 on PT Place. This is a 12 ounce aerosol spray can of factory original Reliance blue-green paint.

Renewal parts

TA

TXT-TDT rebuild kits

Size	Size/Ratio	Level 1	Level 2
TXT1/1A	TXT109	392270	392271
	TXT115		392272
	TXT125		392273
TXT1E	TXT109	392270	E392271
	TXT115		E392272
	TXT125		E392273
TXT2/2A	TXT209	392274	392275
	TXT215		392276
	TXT225		392277
TXT2E	TXT209	392274	E392275
	TXT215		E392276
	TXT225		E392277
TXT3/3A/3B	TXT309	392278	392279
	TXT315		392280
	TXT325		392281
TXT3E	TXT309	392278	E392279
	TXT315		E392280
	TXT325		E392281
TXT4/4A/4B	TXT409	392282	392283
	TXT415		392284
	TXT425		392285
TXT4E	TXT409	392282	E392283
	TXT415		E392284
	TXT425		E392285
TXT5/5A/5B/5C	TXT509	392287	392288
	TXT515		392289
	TXT525		392290
TXT5E	TXT509	392287	E392288
	TXT515		E392289
	TXT525		E392290
TDT-TXT6/6A	TXT609	392291	392292
	TXT615		392293
	TXT625		392294
TXT6E	TXT609	392291	E392292
	TXT615		E392293
	TXT625		E392294
TDT-TXT7/7A	TXT709	392295	392296
	TXT715		392297
	TXT725		392298
TXT7E	TXT709	392295	E392296
	TXT715		E392297
	TXT725		E392298
TDT-TXT8/8A	TXT815	392299	392300
	TXT825		392301
TXT8E	TXT815	392299	E392300
	TXT825		E392301
TDT-TXT9/9A	TXT915	392302	392303
	TXT926		392304
TXT9E	TXT915	392302	E392303
	TXT926		E392304
TDT-TXT10/10A	TXT1015	392305	392306
	TXT1024		392307
TXT10E	TXT1015	392305	E392306
	TXT1024		E392307

TXT-TDT rebuild kits

Size	Size/Ratio	Level 1	Level 2
TDT-TXT12/12A	TXT1215	392308	392309
	TXT1225		392310
TXT12E	TXT1215	392308	E392309
	TXT1225		E392310
TDT13	TDT1325	392311	392312
TDT14	TDT1425	392313	392314
SCXT1/1A	SCXT109	392395	392398
	SCXT115		392399
	SCXT125		392400
SCXT1E	SCXT109	392395	E392398
	SCXT115		E392399
	SCXT125		E392400
SCXT2/2A	SCXT209	392396	392401
	SCXT215		392402
	SCXT225		392403
SCXT2E	SCXT209	392396	E392401
	SCXT215		E392402
	SCXT225		E392403
SCXT3/3A/3B	SCXT309	392278	392279
	SCXT315		392280
	SCXT325		392281
SCXT3E	SCXT309	392278	E392279
	SCXT315		E392280
	SCXT325		E392281
SCXT4/4A/4B	SCXT409	392282	392283
	SCXT415		392284
	SCXT425		392285
SCXT4E	SCXT409	392282	E392283
	SCXT415		E392284
	SCXT425		E392285
SCXT5/5A/5B/5C	SCXT509	392287	392288
	SCXT515		392289
	SCXT525		392290
SCXT5E	SCXT509	392287	E392288
	SCXT515		E392289
	SCST525		E392290
SCXT6/6A	SCXT609	392291	392292
	SCXT615		392293
	SCXT625		392294
SCXT6E	SCXT609	392291	E392292
	SCXT615		E392293
	SCXT625		E392294
SCXT7/7A	SCXT709	392295	392296
	SCXT715		392297
	SCXT725		392298
SCXT7E	SCXT709	392295	E392296
	SCXT715		E392297
	SCXT725		E392298
SCXT8/8A	SCXT815	392397	392404
	SCXT825		392405
SCXT8E	SCXT815	392397	E392404
	SCXT825		E392405

Flange mounting pads

TXT taper-bushed and straight bore reducers can be supplied with mounting pads on the back of the housing which are drilled and tapped to permit bolting the reducer to the supporting framework. Reducers are now provided from the factory with this feature. They can no longer be field modified. There is no additional charge for the modification. Order flange mount TXT reducers per the part number below. Consult Dodge Application Engineering at +1 864 284 5700 for allowable output shaft overhung loads and delivery information.

TXT flange mount taper-bushed reducers (1) (2) (3)

Part number	Reducer size	Weight
241415	TXT105ET Flange mount reducer	40
E241417	TXT115ET Flange mount reducer	45
E241419	TXT125ET Flange mount reducer	45
242415	TXT205ET Flange mount reducer	52
E242417	TXT215ET Flange mount reducer	58
E242419	TXT225ET Flange mount reducer	58
243620	TXT305ET Flange mount reducer	86
E243622	TXT315ET Flange mount reducer	98
E243624	TXT325ET Flange mount reducer	98
244381	TXT405ET Flange mount reducer	122
E244383	TXT415ET Flange mount reducer	139
E244385	TXT425ET Flange mount reducer	139
245341	TXT505ET Flange mount reducer	182
E245343	TXT515ET Flange mount reducer	207
E245345	TXT525ET Flange mount reducer	207
246428	TXT605T Flange mount reducer	251
E246430	TXT615ET Flange mount reducer	285
E246432	TXT625ET Flange mount reducer	285
247431	TXT705T Flange mount reducer	410
E247433	TXT715ET Flange mount reducer	462
E247435	TXT725ET Flange mount reducer	462
E248416	TXT815ET Flange mount reducer	633
E248418	TXT825ET Flange mount reducer	633
E249416	TXT915ET Flange mount reducer	760
E249418	TXT926ET Flange mount reducer	760
E250416	TXT1015ET Flange mount reducer	1020
E250418	TXT1024ET Flange mount reducer	1020

TXT flange mount straight bore reducers (1) (2) (3)

Part number	Reducer size	Weight
241416	TXT105ES Flange mount reducer	40
E241418	TXT115ES Flange mount reducer	45
E241420	TXT125ES Flange mount reducer	45
242416	TXT205ES Flange mount reducer	52
E242418	TXT215ES Flange mount reducer	58
E242420	TXT225ES Flange mount reducer	58
E243621	TXT305ES Flange mount reducer	86
E243623	TXT315ES Flange mount reducer	98
E243625	TXT325ES Flange mount reducer	98
244382	TXT405ES Flange mount reducer	122
E244384	TXT415ES Flange mount reducer	139
E244386	TXT425ES Flange mount reducer	139
245342	TXT505ES Flange mount reducer	182
E245344	TXT515ES Flange mount reducer	207
E245346	TXT525ES Flange mount reducer	207
246429	TXT605ES Flange mount reducer	251
E246431	TXT615ES Flange mount reducer	285
E246433	TXT625ES Flange mount reducer	285
247432	TXT705ES Flange mount reducer	410
E247434	TXT715ES Flange mount reducer	462
E247436	TXT725ES Flange mount reducer	462
E248417	TXT815ES Flange mount reducer	633
E248419	TXT825ES Flange mount reducer	633
E249417	TXT915ES Flange mount reducer	760
E249419	TXT926ES Flange mount reducer	760
E250417	TXT1015ES Flange mount reducer	1020
E250419	TXT1024ES Flange mount reducer	1020

(1) Flange mount reducers are made-to-order with 2 week cycle time.
(2) TA Assembly not included with flange mount reducers.
(3) TXT12 and TDT13—15 reducers are supplied from stock already drilled and tapped for flange mounting. See page G3-57 through G3-59.

Flange mounting pads

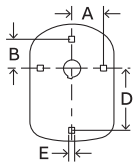


Fig. 1

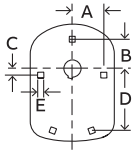


Fig. 2

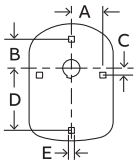


Fig. 3

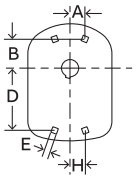


Fig. 4

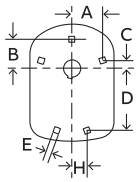


Fig. 5

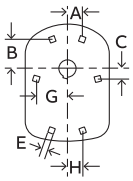


Fig. 6

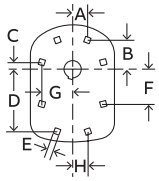
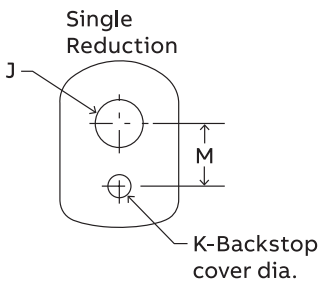
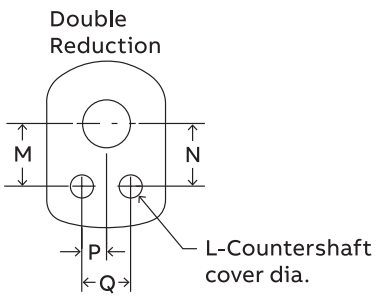


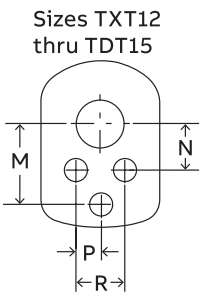
Fig. 7

Flange mounting drilling dimensions for TXT reducers

Reducer size	Nominal ratio	Reference	A	B	C	D	E	F	G	H	Tap size	Tap drill depth	Tap depth
TXT1	5, 9, 15, 25	Fig. 1	2-13/16	3	—	5-1/2	7/8	—	—	—	7/16 -14	29/32	17/32
TXT2	9, 15, 25	Fig. 1	3-3/8	3-5/16	—	5-7/8	13/16	—	—	—	7/16 -14	7/8	1/2
TXT2	5	Fig. 2	3-3/8	3-5/16	—	4-7/8	7/8	—	—	2-17/32	7/16 -14	7/8	1/2
TXT3	9, 15, 25	Fig. 3	3-5/8	3-5/16	7/8	6-3/16	1-1/4	—	—	—	1/2-13	1	5/8
TXT3	5	Fig. 2	3-7/8	3-5/16	1	5-19/32	3/4	—	—	2-11/16	1/2-13	29/32	17/32
TXT4	5, 9, 15, 25	Fig. 3	3-5/8	3-7/8	2	7-5/8	1	—	—	—	1/2-13	1	5/8
TXT5	9, 15, 25	Fig. 3	4-5/8	4-9/16	2-9/32	9-1/2	1-1/4	—	—	—	5/8-11	7/8	7/16
TXT5	5	Fig. 3	4-5/8	4-9/16	2-9/32	9-1/4	1-1/4	—	—	—	5/8-11	7/8	7/16
TXT6	5, 9, 15, 25	Fig. 3	6-3/16	5-1/8	2-3/16	11	1-7/8	—	—	—	5/8-11	1-1/8	11/16
TXT7	5, 9, 15, 25	Fig. 3	5-5/8	6-1/4	2-15/16	13-1/4	2	—	—	—	3/4-10	1-3/8	7/8
TXT8	5, 15, 25	Fig. 3	6-5/16	7	3	15-1/16	2	—	—	—	3/4-10	1-11/32	27/32
TXT9	15, 26	Fig. 4	5-7/16	5-15/16	—	16-7/8	2	—	—	3-3/8	3/4-10	1-1/32	17/32
TXT9	5	Fig. 5	8-1/16	8-1/16	5/8	13-7/8	2	—	—	7-15/16	3/4-10	1-1/32	15/16
TXT10	15, 24	Fig. 6	5-13/16	7-15/16	3-1/2	19	2	—	9-13/16	3-1/8	3/4-10	1-7/32	23/32
TXT12	15, 25	Fig. 6	6-1/8	10-3/4	7-1/4	22-11/16	2-1/2	—	12-9/16	9-1/16	3/4-10	1-25/32	1-9/32
TDT13	25	Fig. 6	7-5/16	12-3/4	6-1/2	25-3/4	2-1/2	—	15-3/4	7-5/16	1-8	2-3/8	1-3/4
TDT14	25	Fig. 7	8-1/4	12-3/4	1-1/4	28-1/4	2-1/2	16-3/4	18-1/16	8-1/4	1-8	2-5/8	2
TDT15	30	Fig. 7	11	15-1/8	1-1/4	32-3/8	3-1/2	19-5/8	22	11	1-8	2-5/8	2



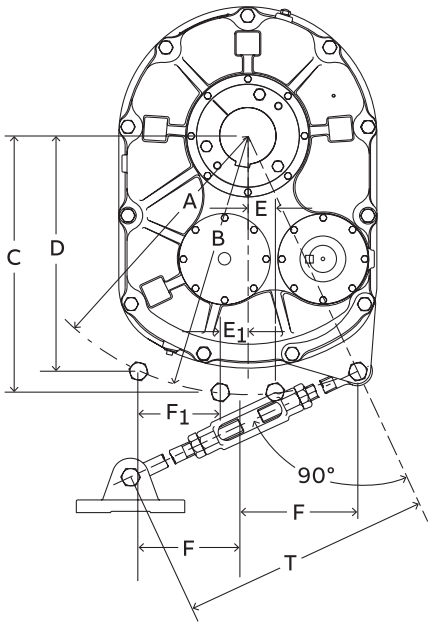




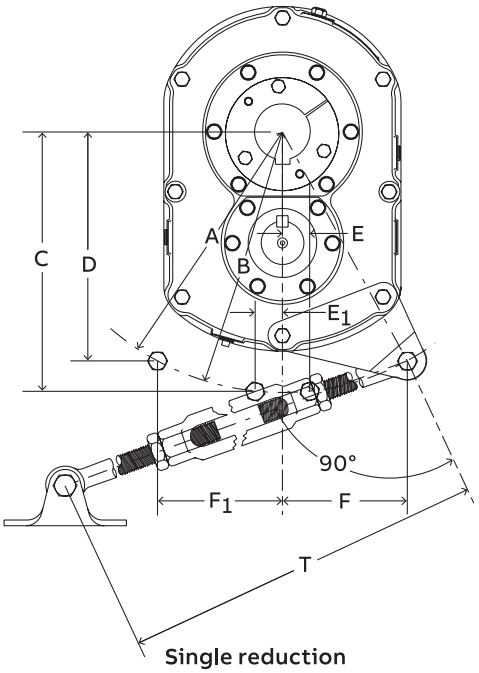
Flange mounting clearance dimensions

Reducer size	Nominal ratio	J	K	L	M	N	P	Q	R	Reducer size	Nominal ratio	J	K	L	M	N	P	Q	R
TXT1	9, 15, 25	3-1/4	2-9/16	—	3-3/16	3-3/16	1-29/32	2-17/32	—	TXT7	9, 15, 25	9-1/8	5-1/16	4-11/16	8-5/16	8-5/32	5-1/8	6-3/4	—
TXT1	5	3-1/4	2-13/16	—	3-1/4	—	—	—	—	TXT7	5	9-1/8	5-1/16	—	8-5/16	—	—	—	—
TXT2	9, 15, 25	4-1/16	3-1/2	—	3-3/4	3-3/4	2-1/8	3	—	TXT8	15, 25	9-1/2	7-5/8	6	9-1/2	9-1/2	6-1/32	7-23/32	—
TXT2	5	4-1/16	3-1/2	—	3-7/8	—	—	—	—	TXT8	5	9-1/2	7-1/2	—	9-41/64	—	—	—	—
TXT3	9, 15, 25	4-3/8	3-1/2	2-11/16	4-3/16	4-3/16	2-5/16	3-5/16	—	TXT9	15, 26	10-15/16	8	8	10-13/16	10-13/16	6-19/32	8-5/8	—
TXT3	5	4-3/8	3-1/2	—	4-1/4	—	—	—	—	TXT9	5	10-15/16	8	—	10-31/32	—	—	—	—
TXT4	9, 15, 25	4-13/16	3-7/8	3-1/4	4-25/32	4-25/32	2-3/4	3-11/16	—	TXT10	15, 24	12-1/4	8	7-5/8	12-1/2	12-1/2	6-9/16	8-23/32	—
TXT4	5	4-13/16	4-1/16	—	4-7/8	—	—	—	—	TXT12	15, 25	14-1/4	8-5/8	9	22-29/32	13-25/32	5-9/16	—	11-1/8
TXT5	9, 15, 25	5-5/8	4-1/4	3-1/4	5-11/16	5-21/32	3-1/16	4-9/16	—	TDT13	25	15-5/8	8-5/8	10-1/4	24-27/64	14-15/32	6-5/16	—	12-5/8
TXT5	5	5-5/8	4-3/4	—	5-7/8	—	—	—	—	TDT14	25	17-5/8	10-3/4	11-3/4	26-9/32	15-5/16	7-1/8	—	14-1/4
TXT6	9, 15, 25	8-1/8	5-1/16	4	6-3/4	6-23/32	4-3/32	5-5/8	—	TDT15	30	22-1/2	10-3/4	13-1/2	30-9/16	18-1/8	8	—	16
TXT6	5	8-1/8	5-1/16	—	6-7/8	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Optional tie rod mounting positions



Double reduction
Torque-Arm reducers



Single reduction
Torque-Arm reducers

TA rod optional mounting positions for TXT1—TXT10 double-reduction reducers ~

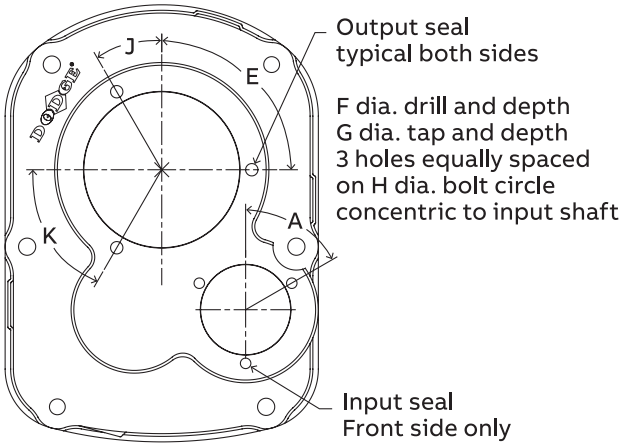
Reducer size	A - Radius	B - Radius	C	D	E, E1	F, F1	T	
							Min.	Max.
TXT1	8.00	—	—	7.25	—	3.41	23.81	29.63
TXT2	8.75	9.00	8.94	7.50	0.81	4.50	26.94	32.94
TXT3	10.16	10.38	10.31	8.88	0.97	4.94	26.94	32.94
TXT4	11.47	11.84	11.78	10.06	1.09	5.50	29.19	35.19
TXT5	13.75	14.03	13.97	12.06	1.00	6.63	29.19	35.19
TXT6	15.69	15.88	15.84	13.63	0.94	7.75	29.19	35.19
TXT7	18.19	18.84	18.81	15.88	1.25	8.94	29.44	35.44
TXT8	21.00	21.38	21.38	19.56	—	7.63	30.00	36.00
TXT9	22.72	23.63	23.63	20.63	—	9.50	30.00	36.00
TXT10	25.20	25.56	25.56	23.56	—	8.94	30.00	36.00

TA rod optional mounting positions for TXT105—TXT905 single-reduction reducers ~

Reducer size	A - Radius	B - Radius	C	D	E, E1	F, F1	T	
							Min.	Max.
TXT105	8.00	—	—	7.25	—	3.41	23.81	29.63
TXT205	8.75	9.00	8.94	7.50	0.81	4.50	26.94	32.94
TXT305	10.16	10.38	10.31	8.88	0.97	4.94	26.94	32.94
TXT405	11.47	11.84	11.78	10.06	1.09	5.50	29.19	35.19
TXT505	14.53	14.81	14.78	12.59	0.91	7.25	29.19	35.19
TXT605	16.44	16.66	16.63	14.22	0.88	8.22	29.19	35.19
TXT705	18.19	18.84	18.81	15.88	1.25	8.94	29.44	35.44
TXT805	21.00	21.38	21.38	19.56	—	7.63	30.00	36.00
TXT905	22.70	23.63	23.63	20.63	—	9.50	30.00	36.00

~ It is preferred to mount the TA tie rod in tension. However, the design allows mounting in compression as well. If mounted in compression, observe the tolerance ± 20 to the 90 degree referenced above, to minimize bending.
The housing direction will be opposite to the direction of output or driven shaft rotation.

Machining dimensions for installation of taconite auxiliary seal kits



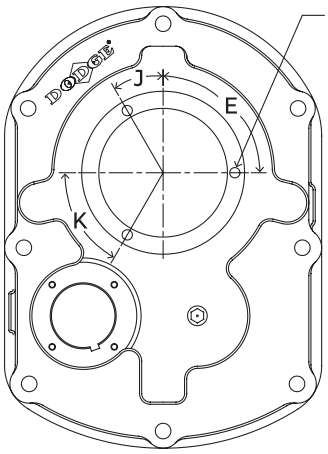
Output seal
typical both sides

F dia. drill and depth
G dia. tap and depth
3 holes equally spaced
on H dia. bolt circle
concentric to input shaft

Input seal
Front side only

B dia. drill and depth
C dia. tap and depth
3 holes equally spaced
on D dia. bolt circle
concentric to input shaft

TXT Size 1 & 2



Output seal
Backstop side only

F dia. drill and depth
G dia. tap and depth
3 holes located as shown
on H dia. bolt circle
concentric to output hub

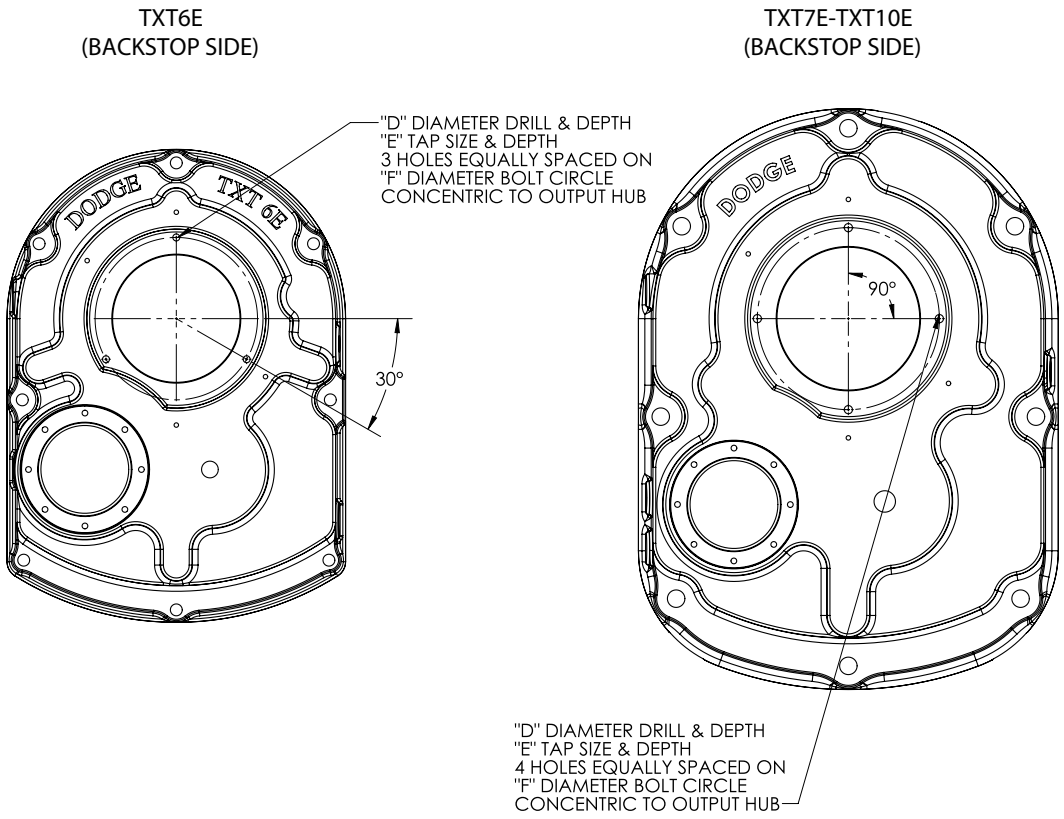
TXT Size 3, 4 & 5

TXT1—TXT5 and TXT105—TXT505

Reducer size	A (degrees)	B ▲ (in)	C (ni)	D (in)	E (degrees)	F ▲ (in)	G (in)	H (in)	J (degrees)	K (degrees)
TXT1	60	#7 DIA 3/4 DP	1/4-20 1/2 DP	2-5/8	120	#7 DIA 3/4 DP	1/4-20 1/2 DP	4-1/8	0	30
TXT2	60	#7 DIA 13/16 DP	1/4-20 9/16 DP	2-15/16	120	#7 DIA 7/8 DP	1/4-20 9/16 DP	4-3/4	0	30
TXT3	N/A	—	—	—	90	#F DIA 3/4 DP	5/16-18 17/32 DP	5-1/4	30	50
TXT4	N/A	—	—	—	30	5/16 DIA 15/16 DP	3/8-16 9/16 DP	6.0	90	130
TXT5	N/A	—	—	—	90	5/16 DIA 15/16 DP	3/8-16 9/16 DP	6-5/8	30	60
TXT105	60	#7 DIA 3/4 DP	1/4-20 1/2 DP	2-15/16	120	#7 DIA 3/4 DP	1/4-20 1/2 DP	4-1/8	0	30
TXT205	60	#7 DIA 13/16 DP	1/4-20 9/16 DP	3-11/16	120	#7 DIA 7/8 DP	1/4-20 5/8 DP	4-3/4	0	30
TXT305	N/A	—	—	—	90	#F DIA 3/4 DP	5/16-18 17/32 DP	5-1/4	30	50
TXT405	N/A	—	—	—	30	5/16 DIA 15/16 DP	3/8-16 9/16 DP	6.0	90	130
TXT505	N/A	—	—	—	90	5/16 DIA 15/16 DP	3/8-16 9/16 DP	6-5/8	30	60

▲ Drill depth is maximum and must not be exceeded.
— Place auxiliary seal cover on input seal carrier using bolts provided.
N/A Not applicable.

Machining dimensions for installation of taconite auxiliary seal kits



Reducer size	A (degrees)	B▲ (in)	C (in)	D (in)	E (in)
TXT6	0°	5/16 ø	3/8-16	7/16 ø	7-1/4 ø
		1-3/8 DP	1-1/16 DP	3/8 DP	
TXT7	0°	23/64 ø	7/16-14	1/2 ø	8-1/8 ø
		1-11/16 DP	1-5/16 DP	3/8 DP	
TXT8	0°	5/16 ø	3/8-16	7/16 ø	8-5/8 ø
		1-11/16 DP	1-3/8 DP	3/8 DP	
TXT9	0°	5/16 ø	3/8-16	7/16 ø	9-15/16 ø
		1-5/8 DP	1-5/16 DP	3/8 DP	
TXT10	0°	5/16 ø	3/8-16	7/16 ø	11.0 ø
		1-5/8 DP	1-5/16 DP	3/8 DP	

▲ Drill depth is a maximum value and must not be exceeded.

TXT and SCXT maximum input and driven speed, overhung load, and WR² ratings

Maximum input and driven speeds for TXT and SCXT reducers

Single-reduction

Reducer size	Input	Driven
TXT/SCXT1	2,248	400
TXT/SCXT2	2,116	400
TXT/SCXT3	2,240	400
TXT/SCXT4	2,260	400
TXT/SCXT5	2,268	400
TXT/SCXT6	2,268	400
TXT/SCXT7	2,144	400
TXT8	2,200	400
TXT9	2,154	400

Double-reduction

Reducer size	Input speed (rpm)			Driven speed (rpm)			Reducer size	Input speed (rpm)			Driven speed (rpm)		
	Nominal ratio			Nominal ratio				Nominal ratio			Nominal ratio		
	9	15	25	9	15	25		15	25	30	15	25	30
TXT/SCXT1	1,888	2,149	2,179	200	140	85	TXT/SCXT8	1,809	1,847	—	120	75	—
TXT/SCXT2	1,850	1,974	1,994	200	140	85	TXT9	1,814	1,925	—	120	75	—
TXT/SCXT3	1,782	2,083	2,100	200	140	85	TXT10	1,819	1,823	—	120	75	—
TXT/SCXT4	1,934	2,118	2,072	200	140	85	TXT12	1,786	1,849	—	120	75	—
TXT/SCXT5	1,790	1,925	2,044	200	125	80	TDT13	—	1,855	—	—	75	—
TXT/SCXT6	1,840	1,916	2,010	200	125	80	TDT14	—	1,860	—	—	75	—
TXT/SCXT7	1,922	1,827	1,844	200	120	75	TDT15	—	—	1,746	—	57	—

* These are the absolute maximum speeds, for maximum reducer life, it is not recommended to exceed input speeds of 1,750 rpm

Output shaft overhung load ratings for double-reduction TXT reducers

Reducer size	Nominal ratio	Shaft size	Overhung load (lb) at various speed (rpm)*										
			10	20	30	50	80	100	120	140	160	180	200
TXT1	9, 15, 25	1-1/4 1-7/16	1,990	1,520	1,300	1,100	930	780	760	740	720	700	680
TXT2	9, 15, 25	1-7/16 1-15/16	2,000	1,510	1,270	1,010	840	820	720	720	710	710	700
TXT3	9, 15, 25	1-15/16 2-3/16	5,400	4,250	3,680	3,050	2,620	2,440	2,310	2,210	2,110	2,040	1,980
TXT4	9, 15, 25	2-3/16 2-7/16	6,520	5,180	4,510	3,800	3,230	3,000	2,830	2,710	2,600	2,510	2,430
TXT5	9, 15, 25	2-7/16	7,460	5,860	5,080	4,280	3,690	3,450	3,270	3,110	2,980	2,880	2,790
		2-15/16	7,060	5,540	4,800	4,040	3,490	3,260	3,090	2,940	2,820	2,720	2,640
TXT6	9, 15, 25	2-15/16	9,100	7,100	6,100	5,000	4,100	4,050	3,700	3,550	3,400	3,300	3,200
		3-7/16	8,200	6,400	5,500	4,500	3,700	3,650	3,400	3,300	3,250	3,200	3,150
TXT7	9, 15, 25	3-7/16	11,400	9,500	7,300	5,950	4,750	5,050	4,500	4,300	4,250	4,200	4,150

* Values shown are for loads applied at one output shaft diameter from reducer bushing. Interpolate for values between speed (rpm) listed.

Output shaft overhung load ratings for single-reduction TXT reducers

Reducer size	Nominal ratio	Shaft size	Overhung load (lb) at various speed (rpm)*						
			100	150	200	250	300	350	400
TXT1	5	1-1/4	775	610	600	500	500	500	490
		1-7/16	660	520	520	430	430	420	420
TXT2	5	1-7/16	760	620	530	530	530	530	520
		1-15/16	665	545	470	470	470	460	460
TXT3	5	1-15/16	2,370	2,100	1,950	1,840	1,760	1,700	1,660
		2-3/16	2,300	2,040	1,890	1,780	1,710	1,650	1,610
TXT4	5	2-3/16	3,030	2,720	2,490	2,310	2,170	2,060	1,970
		2-7/16	2,930	2,640	2,400	2,240	2,100	1,990	1,900
TXT5	5	2-7/16	3,080	2,750	2,560	2,400	2,260	2,160	2,080
		2-15/16	2,920	2,610	2,430	2,270	2,140	2,050	1,980
TXT6	5	2-15/16	4,350	3,850	3,500	3,250	3,200	3,100	3,050
		3-7/16	3,950	3,500	3,200	2,950	2,900	2,800	2,750
TXT7	5	3-7/16	3,800	3,650	3,300	3,450	3,500	3,400	3,300

* Values shown are for loads applied at one output shaft diameter from reducer bushing. Interpolate for values between speed (rpm) listed.

WR² (lb-ft²) at high speed shaft for TXT reducers *

Reducer size	Nominal ratio			
	5:1	9:1	15:1	25:1
TXT1	0.002	0.013	0.008	0.007
TXT2	0.013	0.027	0.011	0.007
TXT3	0.034	0.059	0.026	0.013
TXT4	0.075	0.092	0.043	0.023
TXT5	0.15	0.233	0.099	0.067
TXT6	0.201	0.461	0.197	0.109
TXT7	0.48	1.004	0.417	0.285
TXT8	0.96	—	0.942	0.571

Reducer size	Nominal ratio			
	5:1	9:1	15:1	25:1
TXT9	1.66	—	1.39	0.794
TXT10	—	—	1.63	0.927
TXT12	—	—	7.71	3.68
TDT13	—	—	—	6.56
TDT14	—	—	—	9.0
TDT15	—	—	—	11.42
—	—	—	—	—
—	—	—	—	—

* For WR² at low speed shaft, multiply WR² value listed by (actual ratio) 2.

Thrust capacity of SCXT

SCXT uses tapered roller bearings which take thrust in either direction from the screw conveyor. This eliminates the need for external thrust bearings commonly used.

Thrust capacity of SCXT (lb) ●

Reducer size	Screw conveyor speed (rpm)						
	80	100	120	140	160	180	200
SCXT109	3,986	3,765	3,588	3,434	3,303	3,192	3,092
SCXT209	5,389	5,025	4,742	4,505	4,304	4,138	3,990
SCXT309	5,290	4,920	4,660	4,450	4,240	4,100	3,970
SCXT409	6,000	6,000	5,800	5,500	5,200	5,000	5,000
SCXT509	6,000	6,000	6,000	6,000	5,800	5,700	5,500
SCXT609	6,000	6,000	6,000	6,000	6,000	6,000	6,000
SCXT709	4,863	4,527	4,244	3,959	3,713	3,520	3,335

Reducer size	Screw conveyor speed (rpm)					
	25	50	75	100	125	140
SCXT115	6,000	4,840	4,220	3,820	3,540	3,414
SCXT215	6,000	6,000	5,440	4,920	4,560	4,380
SCXT315	6,000	6,000	5,400	4,920	4,600	4,450
SCXT415	6,000	6,000	6,000	6,000	5,800	5,600
SCXT515	6,000	6,000	6,000	6,000	6,000	—
SCXT615	6,000	6,000	6,000	6,000	6,000	—
SCXT715 †	6,000	6,000	5,220	4,530	—	—

Reducer size	Screw conveyor speed (rpm)				
	25	50	75	80	85
SCXT125	6,000	4,840	4,220	4,130	4,040
SCXT225	6,000	6,000	5,440	5,320	5,000
SCXT325	6,000	6,000	5,400	5,290	5,200
SCXT425	6,000	6,000	6,000	6,000	6,000
SCXT525	6,000	6,000	6,000	6,000	—
SCXT625	6,000	6,000	6,000	6,000	—
SCXT725	6,000	6,000	5,220	—	—

Reducer size	Screw conveyor speed (rpm)						
	100	150	200	250	300	350	400
SCXT105	6,000	5,500	5,060	4,730	4,520	4,340	4,200
SCXT205	5,310	4,760	4,390	4,160	3,970	3,810	3,680
SCXT305	6,000	5,300	4,900	4,600	4,400	4,300	4,200
SCXT405	6,000	5,900	5,500	5,000	4,600	4,500	4,500
SCXT505	6,000	6,000	6,000	6,000	5,700	5,400	5,000
SCXT605	6,000	6,000	6,000	6,000	6,000	6,000	6,000
SCXT705	5,860	5,500	4,810	4,710	4,830	4,980	4,900

† Actual maximum output speed for SCXT715 reducer is 120 rpm
● Consult Dodge Application Engineering at +1 864 284 5700 for SCXT8 thrust capacity

Guidelines for long-term storage

During periods of long storage (3 months or more), or when awaiting delivery or installation of other equipment, special care should be taken to protect a gear reducer to have it in the best condition when placed into service.

By taking special precautions, problems such as seal leakage and reducer failure due to the lack of lubrication, improper lubrication quantity, or contamination can be avoided. The following precautions will protect gear reducers during periods of extended storage.

Preparation

1. Drain the oil from the unit. Add a vapor phase corrosion inhibiting oil such as Nox-Rust 1100 oil by Daubert Chemical Co.
2. Seal the unit air tight. Replace the vent plug with standard pipe plug and wire the vent to the unit.
3. Cover the shaft extension with a waxy rust preventive compound that will keep oxygen away from the bare metal such as Non-Rust X-110 by Daubert Chemical Co.
4. The instruction manuals and lubrication tags are paper and must be kept dry. Either remove these documents and store them inside or cover the unit with a durable waterproof cover which can keep moisture away.
5. Protect the reducer from dust, moisture, and other contaminants by storing the unit in a dry area.
6. In damp environments, the reducer should be packed inside a moisture-proof container or an envelope of plastic containing a desiccant material. If the reducer is to be stored outdoors, cover the entire exterior with a rust preventive.
7. Once a month rotate the input shaft at least 30 revolutions to redistribute the weight of gears and shafts and to prevent brinnelling of the bearings and drying of the seal track.

Nox-Rust 1100 oil for TA reducers

Family	Size	Nox-Rust quantity (Ounces)	Nox-Rust quantity (Milliliters)
TXT	1	1	30
TXT	2	1	30
TXT	3	1	30
TXT	4	1	30
TXT	5	1	30
TXT	6	2	59
TXT	7	3	89
TXT	8	4	118
TXT	9	5	148
TXT	10	7	207
TXT	12	12	355
TDT	13	17	503
TDT	14	24	710
TDT	15	32	946

When placing the reducer into service

1. Assemble the vent plug into the proper hole.
2. Clean the shaft extensions with petroleum solvents.
3. Fill the unit to the proper oil level using a recommended lubricant. The Nox-Rust oil will not affect the new lubricant.
4. Follow the installation instructions provided with the unit.

Troubleshooting guide

Troubleshooting guide for TA reducers

Symptom	Probable cause	Remedy
Excessive noise and vibration	Improper arm attachment	Check instructions and correct. Tighten all fasteners properly.
	Low oil level	Check level. Fill to proper oil capacity per instruction manual.
	Excessive premature gear wear due to improper size reducer	Reselect reducer in catalog with proper service factor. Replace worn unit.
	Driven shaft undersized	Replace shaft or remachine to properly fit next smaller bushing size. (Check shaft strength.)
	Driven shaft bent	Check runout. Replace or straighten shaft.
	Worn gears and bearings	Replace gears and bearings as necessary.
	Driven shaft not projecting through output bore or bushings	Reposition reducer on shaft or replace shaft.
	Tapered reducer bushings improperly tightened	Check instruction manual and tighten per recommended torque values.
	Improper connection to driver and driven equipment	Check belt tension and V-belt sheave alignment. Check coupling alignment. Check all fasteners and setscrews; tighten properly. Inspect driven shaft key positioning.
	Worn or cracked V-belts	Replace with new belts.
	Driven equipment noise	Check for source, reducer may amplify existing noise.
Overheating reducers	Improper oil level	Check oil and fill to proper oil capacity per instruction manual. Too much oil causes heat due to churning and friction; too little starves components.
Exceeds 195 degrees Fahrenheit housing temperature	Improper reducer size	Reselect reducer in catalog. Decrease load or replace reducer with proper unit.
	Excessive V-belt tension	Tension belts properly. Position sheaves as close to reducer as possible.
	Excessive reducer operating speed	Check catalog recommendations. If necessary refer all application details to manufacturer.
	Located near high ambient heat source	Shield reducer from heat source. Relocate reducer. Refer application details to manufacturer.
	No cooling fan installed	Check catalog recommendation. Install fan if required.
Oil leakage	Undetermined source of leak	Clean reducer and dry all surfaces. Run for one hour and inspect for leak from seals, gaskets, covers and plugs.
	Plugged breather air passage	Clean air passage. Remove air passage tape on new reducers.
	Loose drain, breather or pipe plugs	Tighten securely. Check oil level.
	Excessive oil level	Check level. Fill to proper oil capacity per instruction manual.
	Breather plug below oil	Relocate breather to highest location. Check oil level.
	Premature seal wear due to hostile environment	Replace seals. Install auxiliary seal kit.
Excessive backlash	Worn gears	Replace worn gears in sets.
	Loose bearings	Check bearing wear, adjustment and replace.
	Worn shaft keys	Replace worn keys. Check shaft keyway for wear
	Driven equipment backlash	Check equipment for backlash
Excessive lateral movement	Worn and loose bearings	Replace bearings.
	Improper bearing adjustment	Readjust bearing per instruction manual.
	Loose bearing carrier caps	Check and tighten fasteners.
	Improper reducer mounting	Check and tighten straight bore reducer set screws to recommended torque values. Check and tighten tapered reducer bearing fasteners to recommended torque values. See instruction manual.
	Reversing duty applications	Refer application details to manufacturer.
Excessive reducer wobble	Driven shaft undersized	Replace shaft or remachine to properly fit next smaller bushing size. (Check shaft strength.)
	Driven shaft bent	Check runout. Replace or straighten shaft.
	Improper torque arm attachment	Check instructions and correct. Tighten all fasteners promptly.
	Driven shaft not projecting through output bore or bushings	Reposition reducer on shaft or replace shaft.
	Worn or loose driven shaft key	Check for proper size and replace. Check shaft keyway size.

TXT series replacement interchange

Troubleshooting guide for TA reducers

Symptom	Probable cause	Remedy
Reducer shafts will not rotate	Improper backstop installation	Remove backstop and install properly. (Rotate end for end.)
	Driven equipment locked	Check for rotation of driven equipment.
	Damaged gearing	Check gearing and replace. Inspect driven equipment and check for rotation.
Premature input bearing failure	Excessive V-belt tension	Tension V-belts properly.
	Excessive overhung load	Mount sheave as close to reducer as possible. Check minimum sheave requirement and replace if necessary.
	Improper oil level	Check oil and fill to proper oil capacity per instruction manual.
	Excessive reducer operating speed	Check catalog recommendations. If necessary, refer application details to manufacturer.
Premature backstop wear or backstop slips	Improper oil	Check oil. Avoid lubricants with EP additives, e.g., graphite. Check instruction manual for proper type.
	Backstop wear	Check wear and replace. Inspect periodically.
	Excessive input shaft lateral movement	Check for bearing, shaft, and housing wear. Replace components and readjust reducer per instruction manual.
	Excessive V-belt tension	Tension V-belts properly.
	Excessive overhung load	Mount sheave as close to reducer as possible. Check minimum sheave requirement and replace if necessary.
	Backstop key not installed	Install key or keys.
	Improper installation	Check for proper direction of shaft rotation in backstop.
	Improper input bearing adjustment	Readjust bearings per instruction manual.
	Contaminated oil	Flush reducer and replace oil.
	Excessive reducer operating speed	Check catalog recommendations. Refer application details to manufacturer.

Consult Dodge Application Engineering at +1 864 284 5700 for other applications.

Replacement interchange - TXT series equivalents

Four generations of TA reducers											
AGMA Case size	Ratio										
	5:1			9:1	15:1				25:1		
—	#10	#10	—	—	—	TD015	—	—	TD025	—	—
107	#11	T11	TXT105	TXT109	#1	TD115	TDT115	TXT115	TD125	TDT125	TXT125
115	#12	T12	TXT205	TXT209	#2	TD215	TDT215	TXT215	TD225	TDT225	TXT225
203	#13	T13	TXT305	TXT309	#3	TD315	TDT315	TXT315	TD325	TDT325	TXT325
207	#14	T14	TXT405	TXT409	#4	TD415	TDT415	TXT415	TD425	TDT425	TXT425
215	#15	T15	TXT505	TXT509	#5	TD515	TDT515	TXT515	TD525	TDT525	TXT525
307	#16	T16	TXT605	TXT609	#6	TD615	TDT615	TXT615	TD625	TDT625	TXT625
315	#17	T17	TXT705	TXT709	#7	TD715	TDT715	TXT715	TD725	TDT725	TXT725
407	#18	T18	—	TXT809	#8	TD815	TDT815	TXT815	TD825	TDT825	TXT825
415	#19	T19	—	TXT909	#9	TD915	TDT915	TXT915	TD926	TDT926	TXT926
507	—	—	—	—	—	TD1015	TDT1015	TXT1015	TD1024	TDT1024	TXT1024
—	—	—	—	—	—	—	TDT1115	—	TD1125	TDT1125	—
608	—	—	—	—	—	—	TDT1215	TXT1215	TD1225	TDT1225	TXT1225
700	—	—	—	—	—	—	—	—	TD1325	TDT1325	TDT1325
800	—	—	—	—	—	—	—	—	TD1425	TDT1425	TDT1425
1000	—	—	—	—	—	—	—	—	—	TDT1530	TDT1530

Notes:
(1) The "#" series and TXT reducers were manufactured with straight bore mountings only. The TDT and current TXT are manufactured with both straight bore and twin-tapered bore bushings.
(2) With the increased hp ratings of the TXT reducer, it may be possible to downsize to a smaller gearbox when replacing an old-style TA reducer. Be sure to review the application.

Backstop interchange

20203 TXT-E series

Part number	Current TXT-E series housing
241737	TXT109E
	TXT115E
	TXT125E
242709	TXT209E
	TXT215E
	TXT225E
243737	TXT309E
	TXT315E
	TXT325E

Part number	Current TXT-E series housing
903102	TXT409E
	TXT415E
	TXT425E
905102	TXT509E
	TXT515E
	TXT525E
246800	TXT609E
	TXT615E
	TXT625E

Part number	Current TXT-E series housing
247690	TXT709E
	TXT715E
	TXT725E
907102	TXT815E
	TXT825E
907102	TXT915E
	TXT926E
272689	TXT1015E
	TXT1024E
272889	TXT1215E
	TXT1225E

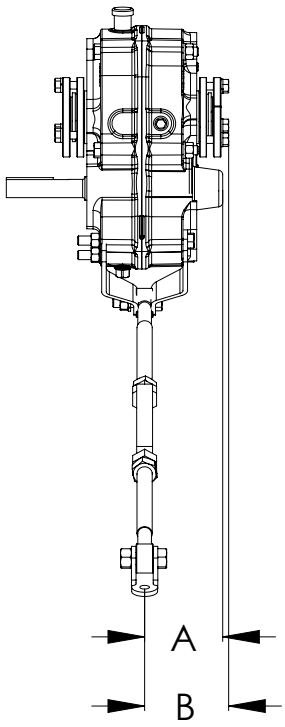
Legacy TXT series

Part number	Previous TXT series housing	TXT series bearing	TXT series	TDT series	TD series	Number series
241101	—	—	—	TDT115	TD115	No. 1
	—	—	—	TDT125	TD125	
242101	TXT109A TXT115A TXT125A	—	TXT105	T11 TDT215 TDT225	TD215 TD225	No. 2 No. 3 No. 11
		—	TXT109			
		—	TXT115			
		—	TXT125			
243101	—	—	—	TDT315	TD315	—
	—	—	—	TDT325	TD325	—
243102	Use part number 244106					
243106	TXT309B	TXT309A	—	—	—	—
	TXT315B	TXT315A	—	—	—	—
	TXT325B	TXT325A	—	—	—	—
244092	—	—	—	TDT415	TD415	—
	—	—	—	TDT425	TD425	—
244101	—	—	—	—	—	No. 4
	—	—	—	—	—	No. 5
244106	TXT409B	TXT409A	TXT309	—	—	—
	TXT415B	TXT415A	TXT315	—	—	—
	TXT425B	TXT425A	TXT325	—	—	—
244148	—	TXT405A	TXT405	—	—	—
	—		TXT409	—	—	—
	—		TXT415	—	—	—
	—		TXT425	—	—	—
245101	—	—	—	TDT515	TD515	—
	—	—	—	TDT525	TD525	—
245154	TXT509C	TXT509B	TXT509A, TXT509	—	—	—
	TXT515C	TXT515B	TXT515A, TXT515	—	—	—
	TXT525C	TXT525B	TXT525A, TXT525	—	—	—
246092	TXT609A TXT615A TXT625A	TXT605 TXT609 TXT615 TXT625	—	T16 TDT615 TDT625	TD615A, TD615 TD625A, TD625	No. 16A
			—			
			—			
			—			
246101	—	TXT505A	TXT505	T15	—	No. 6
247092	Use part number 247260					
247101	—	—	—	—	—	No. 7A
247260	TXT709A	TXT705	—	T17	TD715A, TD715	No. 17A
	TXT715A	TXT709	—	TDT715	TD725A, TD725	
	TXT725A	TXT715	—	TDT725	—	
	—	TXT725	—	—	—	

Backstop interchange

Legacy TXT series

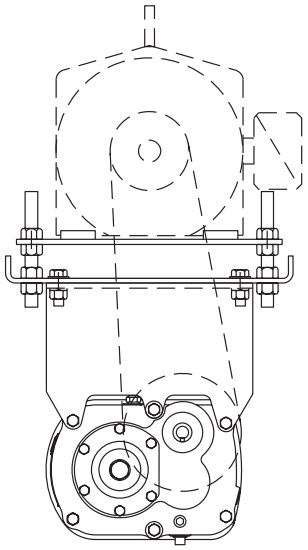
Part number	Previous TXT series housing	TXT series bearing	TXT series	TDT series	TD series	Number series
248101	Use part number 249260					
249260	TXT815A	TXT815	—	TDT815	TD815A, TD815	No. 8
	TXT825A	TXT825	—	TDT825	TD825A, TD825	No. 9
	TXT915A	TXT915	—	TDT915	TD915	No. 18
	TXT926A	TXT926	—	TDT926	TD926	—
	—	—	—	TDT1115	TD1115	—
	—	—	—	TDT1125	TD1125	—
250101	Use part number 250260					
250260	TXT1015A	TXT805	—	T18	TD1015	—
	TXT1024A	TXT1015	—	TDT1015	TD1024	—
	—	TXT1024	—	TDT1024	TD1215	—
	—	TXT1215	—	TDT1215	TD1225	—
	—	TXT1225	—	TDT1225	—	—
252101	TXT209A	TXT305A	TXT205	T12	—	No. 13
	TXT215A	—	TXT209	T13	—	—
	TXT225A	—	TXT215	—	—	—
	—	—	TXT225	—	—	—
	—	—	TXT305	—	—	—
254101	—	—	—	T14	—	No. 14
255101	—	—	—	—	—	No. 15
256101	—	—	—	—	—	No. 16
257101	—	—	—	—	—	No. 17
272259	—	TXT905	—	T19,	—	—
	—	—	—	TDT1325	—	—
272293	—	—	—	TDT1425	—	—
	—	—	—	TDT1530	—	—



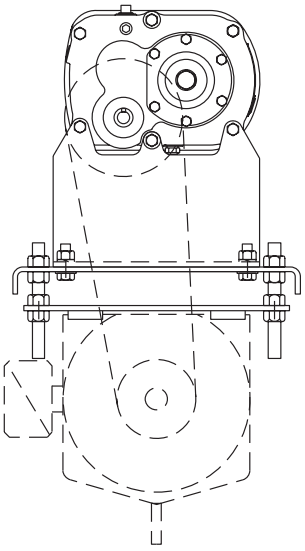
Twin-tapered bushing, input pinion cover, and backstop cover dimensions

Reducer size *	With backstop (A)	Without backstop (A)	Bushing (B)
TXT1E	3.63	3.51	3.35
TXT2E	4.26	4.09	3.67
TXT3E	4.81	4.63	4.52
TXT4E	4.92	4.74	4.97
TXT5E	5.03	4.77	5.24
TXT6E	5.61	5.34	5.73
TXT7E	6.04	5.78	6.38
TXT8E	7.25	6.81	7.01
TXT9E	8.25	7.80	7.02
TXT10E	8.87	8.50	7.66
TXT12E	10.23	9.71	9.21

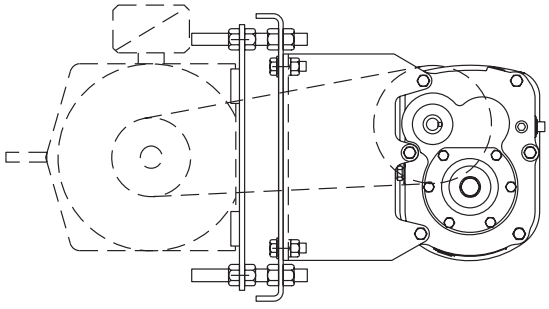
SCXT mounting positions based on screw diameter



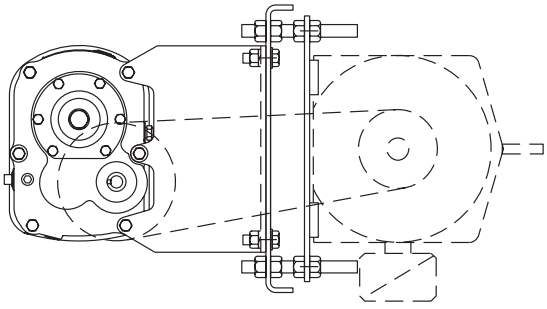
Top position



Bottom position



Left side position



Right side position

Reducer size	Motor mount number ~	For use on troughs with screw diameters of:	
		Top, right and left side portions (in)	Bottom position (in)
SCXT1	M112	6, 9, 12	6, 9
SCXT2	M214	6, 9, 12, 14	6, 9, 12
SCXT3	M316	6, 9, 12, 14, 16	6, 9, 12, 14
SCXT4, SCXT5	M418, M518	9, 12, 14, 16, 18	9, 12, 14, 16
SCXT6, SCXT7	M620, M720	12, 14, 16, 18, 20	12, 14, 16, 18

~ Long series motor mount to fit troughs with screws up through 24 inch diameter are available from stock.

Notes

System1™

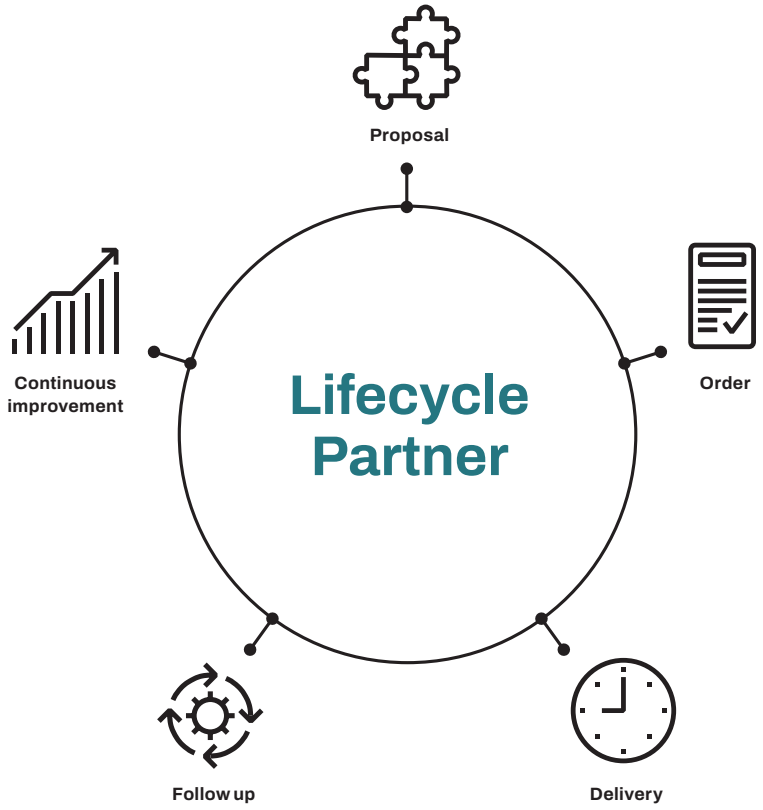
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Overview

Conveyor design and lifecycle partner

The System1 team utilizes an expansive portfolio of Dodge mechanical and customer specified electrical products, PT Wizard™ online selection, and decades of conveyor engineering expertise.

These capabilities allow customers to partner with one manufacturer that can offer complete, packaged proposals for quick delivery of factory assembled packages that increase reliability, improve productivity, and help you operate safely.



Proposal

- One supplier for engineering and design
- PT Wizard provides online selection and pricing for individual components and complete conveyor designs
- System engineers are available to assist as trusted advisors on design, specification, and optimization of system components
- Empowers customers and shortens the learning curve
- Provides power matched components

Order

- Single point of contact for entire package
- The System1 team provides order entry for individual components or complete packaged assemblies
- Manufactured in the USA
- Product and assembly quality assurance
- Project management

Delivery

- Extended warranty for Class II packages, when purchased and assembled through Dodge
- Packaged assemblies available from stock
- Reduced user safety concerns with factory assembled packages
- Field service startup, training, and benchmarking available

Follow up

- Local Sales Engineer onsite support
- Field service ongoing site visits and trend monitoring

Continuous improvement

- Dodge Sales Engineer onsite training, troubleshooting, and introduction of new products
- Reduced user safety concerns with new designs and accessories
- Proven results through documented savings

Features and benefits

When do I use the System1 team?

A System1 team request for quote should typically be used when multiple products can be packaged and assembled to provide a complete solution for you or your customer.

Examples are:

Assembled packages including;

- TA gear reducer, V-belt drive, motors, pulleys, shafts, and bearings
- Creep drive/turning gear sets
- Dodge MagnaGear XTR® and Maxum® XTR packages for large hp applications (up to 5,000 hp)
- Dodge Quantis® reducers, motors, Dodge couplings
- Complete drive packages and pulley assemblies for new or existing conveyors

The System1 team can also incorporate products other than those manufactured by Dodge, such as external backstops and over-running clutches.

Why should I use the System1 team?

- Decade of combined system design and application expertise
- Saves you up front engineering and quoting time
- Single point of contact from the initial quote phase up through receipt of your product
- Pre-assembled packages, ready to install on your equipment
- Single point of contact should any issues arise

All these add up to a lower total cost of ownership to you and your customer.

Who can I contact about the System1 team?

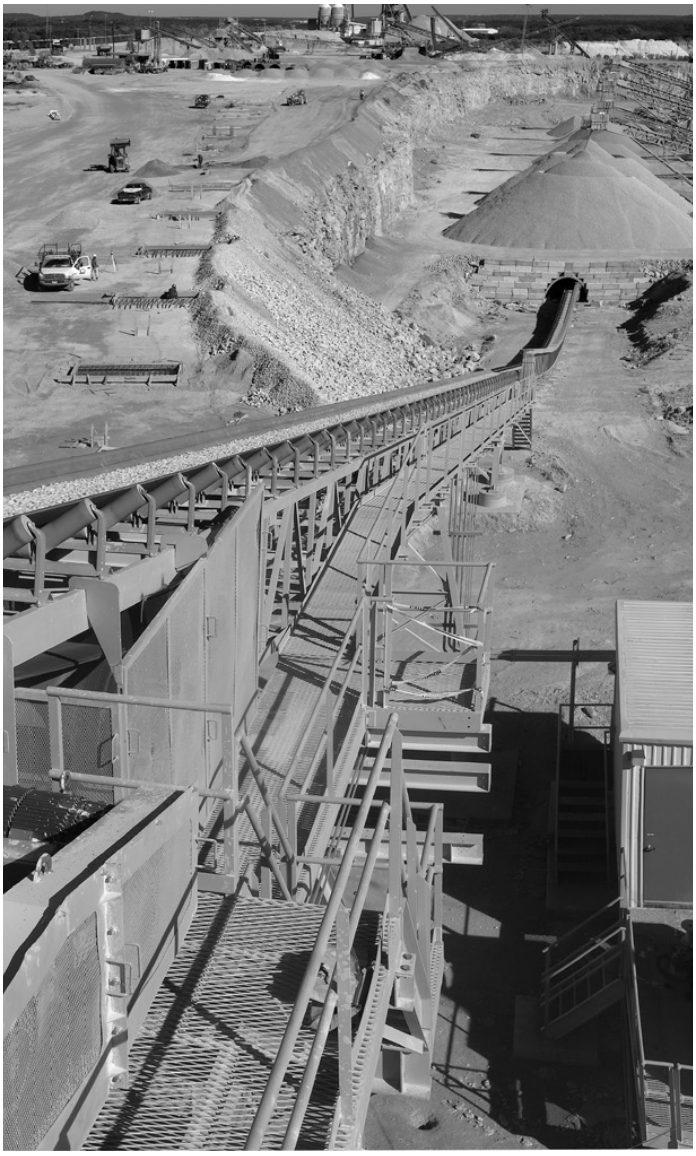
Phone:

+1 864 284 5767

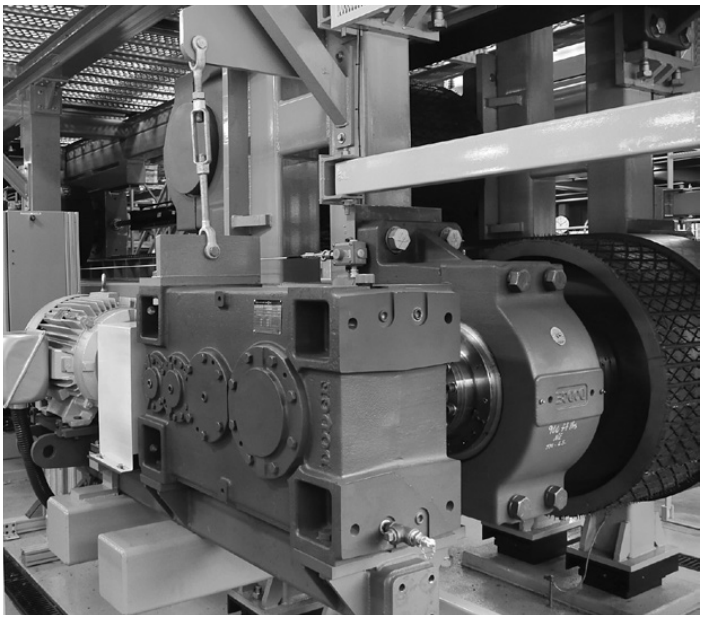
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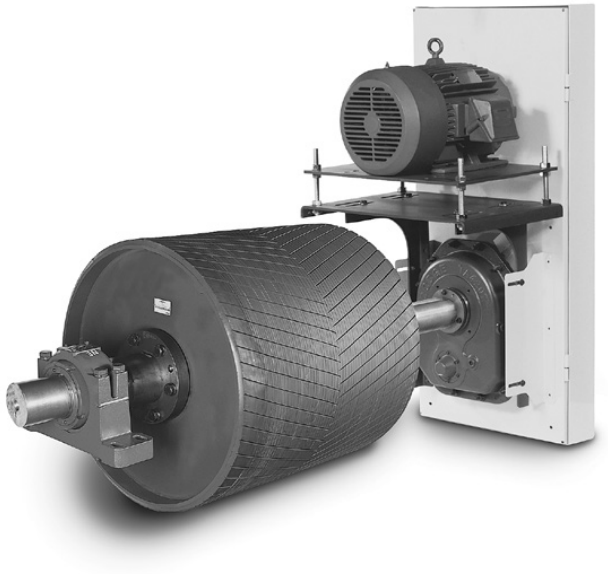
system1@dodgeindustrial.com





Features and benefits







One system. One source. One solution.

For over 20 years, the System1 team has offered an integrated single source for all your power transmission needs featuring Dodge mechanical and digital products and tier 1 motor brands. The System1 team can optimize your equipment performance and reliability, reduce overall costs, assist in coordinating multi-product projects, and ultimately improve your company's profitability.

What is the System1 team?

The System1 team includes engineering and product specialists, in addition to our full complement of resources for product engineering and selection programs. The System1 team also work directly with Dodge in-house industry experts to provide Hyphenate solutions.

To estimate the total cost of a project, companies must consider the time they spend in designing, selecting, and sourcing all the power transmission components of a drive system. The System1 team can reduce costs by eliminating the need to order from multiple vendors, ordering mismatched components, coordinating multiple shipments from various vendors, and paying multiple invoices. Contact the System1 team for your next package opportunity and find out why we are the industry's proven single source provider for innovative drive system solutions.

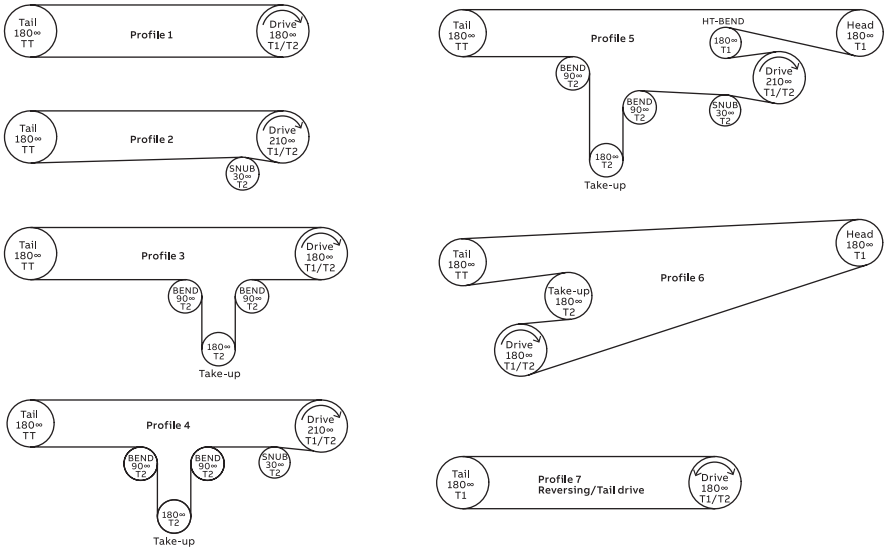
Customized conveyor package solutions

Quote form

To: System1 team
Re: Customized quotation
Email: system1@dodgeindustrial.com
PT Wizard design program: ptwizard.com
From _____
Company and customer number _____
City, State _____
Phone _____
Fax _____

Desired system capacity (TPH) _____
Material type _____
Estimated material density _____
Desired belt width _____
Desired belt speed _____
Length of conveyor _____
Change in elevation (lift) _____
Number of belt scrapers and plows _____
Idler angle _____
Bearing center distance _____

Desired conveyor profile (circle your selection)



Additional comments

Motor type:	❑ Baldor	❑ General purpose	
	❑ WEG	❑ Severe duty	
	❑ Toshiba	❑ High torque	
Reducer type:	❑ Torque-Arm (TXT)	❑ MagnaGear XTR	❑ Quantis
	❑ Torque-Arm II (TA II)	❑ Maxum XTR	
	❑ Motorized Torque-Arm (MTA)	❑ Tigear-2	
Bearing type:	❑ Type E	❑ Type EXL	❑ USAF
	❑ Safety Mount	❑ S-2000	❑ Split-Sphere
	❑ TAF		❑ SCM ball bearing
Pulley type:	Style	Lagging	
	❑ Profiled end-disc drum	❑ D-Lag	
	❑ Elevator	❑ Styrene Butadiene Rubber (SBR)	
	❑ Herringbone wing	❑ Ceramic	
	❑ Heavy-Duty wing	❑ Replaceable slide lag	
	❑ Mine-Duty wing	❑ Food-grade rubber	

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