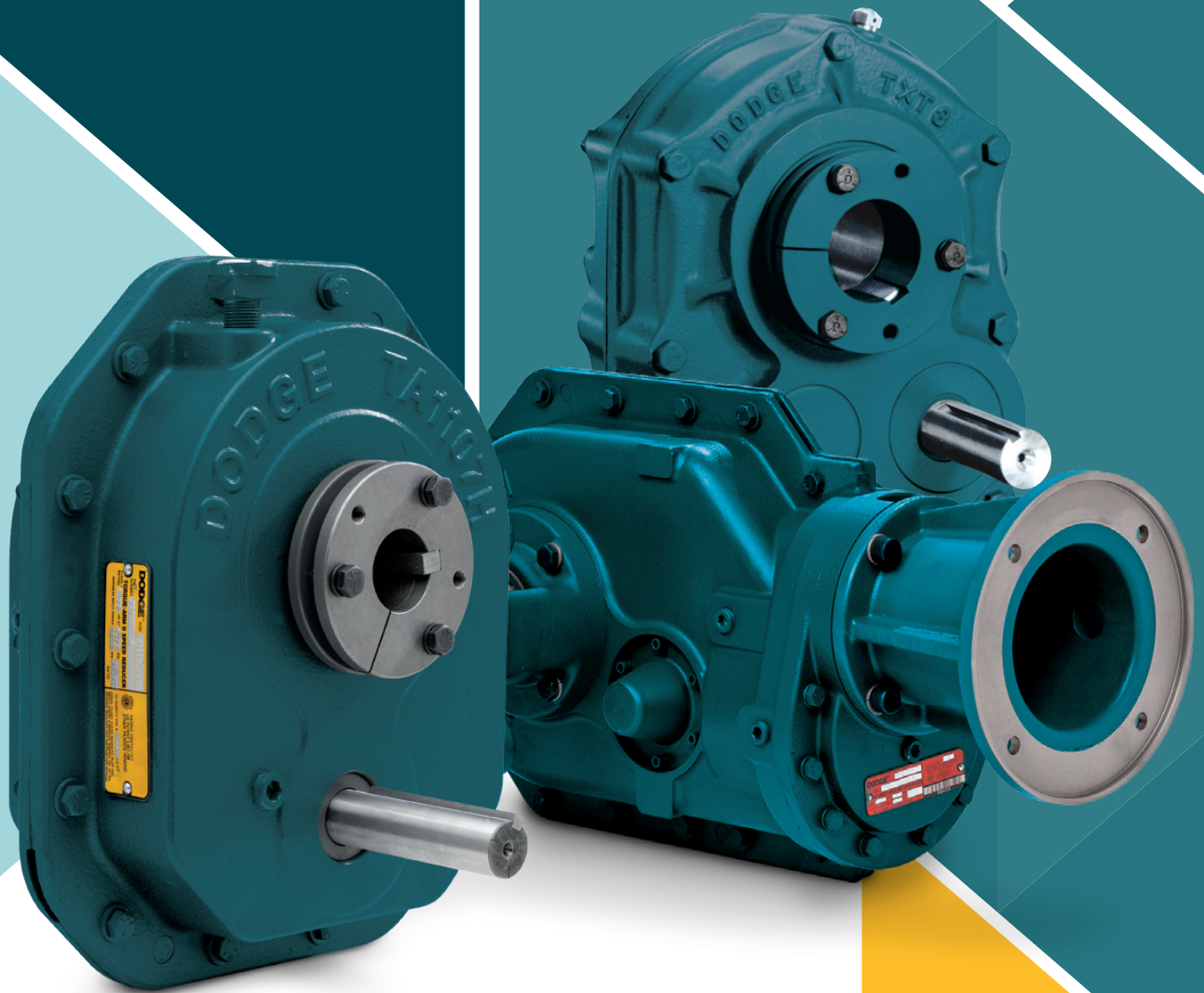


Torque-Arm

SHAFT MOUNTED REDUCERS



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In illustrations throughout this catalog, safety guards have been removed for photographic purposes.

WARNING

The information provided for Product Interchange in this catalog is for use only as a general reference by persons qualified to recognize unreasonable selection options. Products suggested as substitutes may have dimensional, rating, pricing and other differences from products to be replaced. This selection method must be used in conjunction with the applicable product catalog which contains important precautions and other pertinent information.

Warning: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions in the instruction manuals must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be described or as may be specified in safety codes should be provided, and are neither provided by Dodge Industrial nor are the responsibility of Dodge Industrial. This unit and its associated equipment must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and the potential hazards involved. When risk to persons or property may be involved, a holding device must be an integral part of the driven equipment beyond the speed reducer output shaft.

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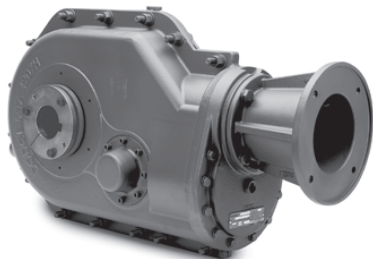
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Reference Guide

Torque-Arm and MTA II Gearing



Motorized Torque-Arm II shaft mount reducers - Page G1-1

- 7 new reducer sizes with modular accessories
- All reducers can be shaft mounted, screw conveyor, vertical, and flange mounted
- Up through 100 Hp with torque ratings through 130,000 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 gear-motor assembly
- Bushing bores through 4-7/16"
- Meets or exceeds AGMA standards, minimum class 1 bearing L-10 life of 5,000 hours - 25,000 average life
- Harsh duty, metal shielded sealing system with excluder lip
- New 36-month/18-month warranty protection
- ATEX Certified Category 2 and M2 equipment
- All MTA II reducers are factory ready to accept Smart Sensors for condition monitoring



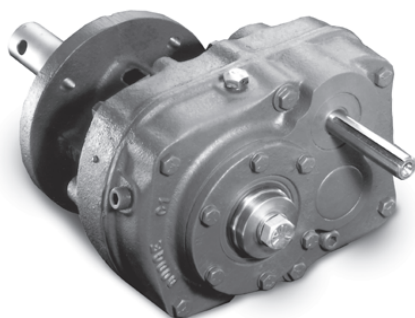
Torque-Arm II shaft mount reducers - Page G2-1

- 12 new reducer sizes with modular accessories
- All reducers can be shaft mounted, screw conveyor, vertical, and flange mounted
- Up through 400 Hp with torque ratings through 500,000 lb-in
- Standard 5, 9, 15, 25, 40:1 gear ratios equal nearly 300:1 speed reduction with V-belt drives
- •Twin tapered bushing bores: 1" through 7"
- Meets or exceeds AGMA standards, including minimum class 1 bearing L-10 life of 5,000 hours - 25,000 average life
- 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 Smart Sensors for condition monitoring
- •New 36-month/18-month warranty protection
- ATEX Certified Category 2 and M2 equipment



TXT Torque-Arm shaft mount reducers - Page G3-1

- 12 new 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, 9, 15, 25:1 gear ratios equal nearly 210:1 speed reduction with V-belt drives
- Twin tapered bushing bores: 1" through 10"
- Meets or exceeds AGMA standards, minimum class 1 bearing L-10 life of 5,000 hours - 25,000 average life
- Standard ratios: 5, 9, 15, and 25:1
- Optional flange mount and vertical shaft application
- Available with hydraulic motor input
- All TXT reducers are factory ready to accept Smart Sensors for condition monitoring



SCXT Screw conveyor shaft mount reducers - Page G3-81

- Industry standard, high quality, drive mounting
- Adapter conforms to any CEMA trough ends
- Rugged, high-thrust roller bearings
- Conforms to CEMA standards
- CEMA high-strength shafts, 2- and 3-bolt, 1-1/2" to 3-7/16"
- Fractional to 75 Hp
- Standard ratios: 5, 9, 15, and 25:1
- Available with hydraulic motor input
- Vertical and incline mounting capability
- All SCXT reducers are factory ready to accept Smart Sensors for condition monitoring

Specifications

The speed 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, 3 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 extreme pressure (EP) lubricants.

Motorized Torque-Arm II 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 drive shaft will be machined from a high quality alloy steel.

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

Motorized Torque-Arm II is ATEX certified

Motorized Torque-Arm II has been found to comply with the Essential Health and Safety Requirements that relate to the design of Category 2 and M2 equipment, which is intended for use in potentially explosive atmospheres.

These Essential Health and Safety Requirements are given in Annex II to European Union Directive 94/9/EC of 23 March 1994.

WARRANTY MATRIX for Dodge Brand Products			
General Product Category	Product Category	Warranty Period (months)*	
		From Installation Date	From Manufacture Date
Enclosed Gearing	MTA II - Motorized Torque Arm II	18	36
	Torque Arm II	18	36
	TXT	12	36
* Whichever warranty period occurs first			

Motorized Torque-Arm II

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Features and Benefits

Motorized Torque-Arm II

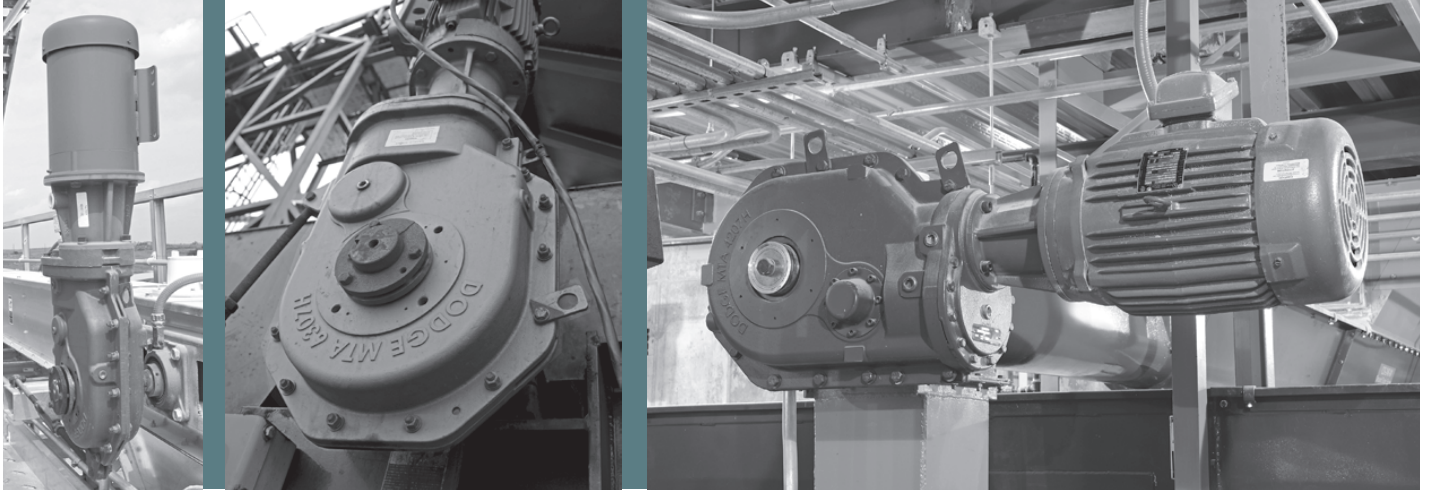
Reference Guide

Motorized Torque-Arm II

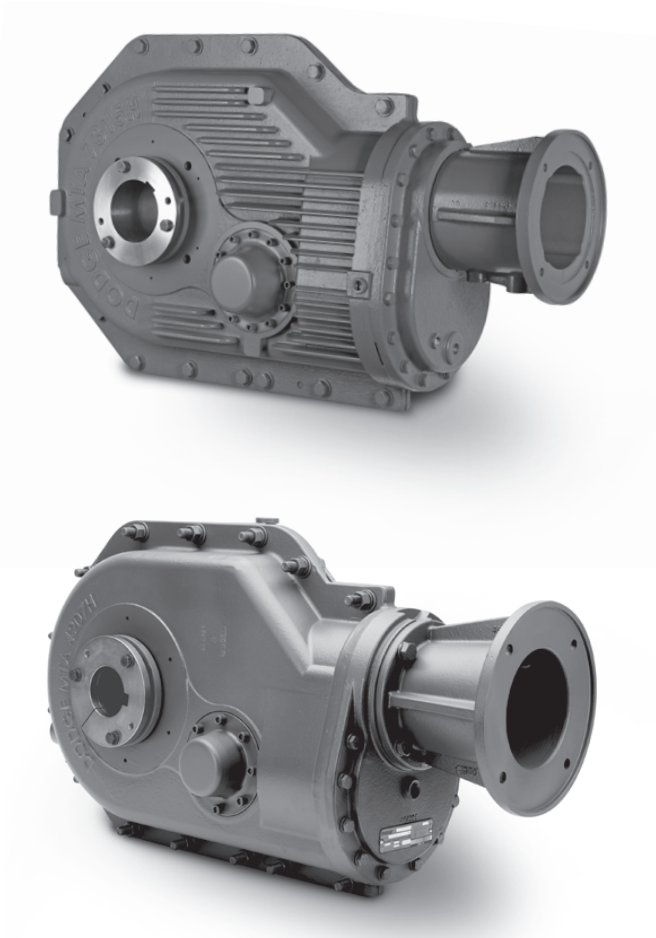
Torque-Arm II

Torque-Arm

Bulk Material Handling



Since 1949, Torque-Arm products have proven dependability with more than 2 million units in service throughout the world. Torque-Arm speed reducers are the standard of the industry. Extending the product offering to include, Motorized Torque-Arm II, we now offer a heavy-duty, compact, right angle gearbox that is available from stock and decreases maintenance and reduces the overall total cost of ownership.



Motorized Torque-Arm II 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, Motorized Torque-Arm II 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, the Motorized Torque-Arm II line 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 & 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 Torque-Arm bushing design which are unique to Dodge.

Accessories

MTA uses standard TA II Accessories



Standard twin tapered bushing system

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



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.



MTA II bushing covers

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



Backstop

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



TA rod kit

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



Screw conveyor adapter

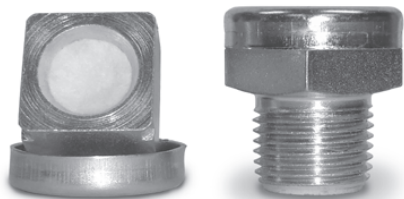
The CEMA bolt-on screw conveyor adapter features double-lip seals on both surfaces. The adapter center is open for contaminate drop out for optimized sealing. An optional adjustable packing kit bolts to the standard adapter and provides a proven sealing option for hostile environments. Packing can be 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 (patent pending) also provides a mechanical shaft removal feature. #316 Stainless Steel drive shafts also available.

Torque-Arm family breather technology



Standard Breather is a filter breather

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

Harsh Duty Breathers are available



Fully enclosed canister breather

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



Hydra-Lock desiccant breather

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



Optional Position D breather kit

- Use when reducer is mounted in position D (G1-77)
- Includes: Enclosed Breather, sight glass, all necessary piping to allow for fitment to all sizes of MTA

Selection

(Electric motors) for Motorized Torque-Arm II reducer and screw conveyor drive reducer applications

When to use easy selection

The easy selection tables for MTA II 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, 864-284-5700.

How to select

Step 1: Determine class of service See Application Classification table on page G1-7, to determine load classification for applications under normal conditions. Find the type application and duty cycle:

Class 1 – Steady load not exceeding motor Hp rating and light shock loads during 10 hours a day. Moderate shock loads are allowable if operation is intermittent. For Class 1 applications, the maximum value of starting and momentary peak loads should not exceed 2 x motor Hp rating. If it exceeds this amount it should be divided by 2 and the result used in the selection table instead of the motor Hp rating.

Class 2 – Steady load not exceeding Motor Hp rating for over 10 hours a day. Moderate shock loads are allowable during 10 hours a day. For Class 2 applications, the maximum value of starting and momentary peak loads should not exceed 2.8 x motor Hp rating. If it exceeds this amount it should be divided by 2.8 and the result used in the selection table instead of the motor Hp rating. (Note: most Torque-Arm applications are class 2 or better. Torque-Arm products are usually used in heavy duty applications)

Step 2: Determine reducer size From the easy selection, Class I or Class II Tables, pages G1-32 through G1-39, 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 Dodge MTA II taper bushed reducers require bushings to mount reducer to driven shaft. Refer to reducer pages for available bushings. If the driven shaft is larger than the bore of the selected reducers, the shaft must be machined to the proper size, or select a larger reducer. Check driven shaft and key for strength.

Step 4: Check dimensions See "Selection and dimensions" pages for reducer dimensions, weights, part numbers and Torque-Arm rod mounting positions. See "Engineering and technical" pages for reducer mounting positions, G1-77.

Step 5: Select Accessories See "Selection and dimensions" pages for description, dimensions, weights and part numbers for accessories for the MTA II reducer selected: Rod assembly - bushing kit - backstop assembly - bushing covers - screw conveyor adapter - adjustable packing kit - drive shaft - optional harsh duty breathers

Shaft mount reducer application:

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

Step 1: Determine class of service From the table on page G1-7 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 G1-36, 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 G1-41 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 G1-53, 2-3/16" 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.

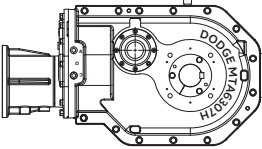
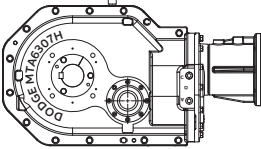
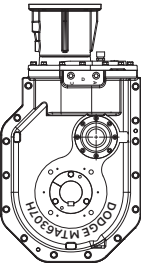
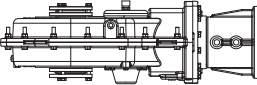
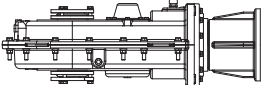
Step 4: Check dimensions and weights See "Selection and dimensions" pages for reducer dimensions, weights, part numbers and other pertinent drive dimensions, as well as information on Torque-Arm rod mounting positions. See Engineering/Technical pages for information on reducer mounting positions G1-77.

Step 5: Select accessories See "Selection and dimensions" pages to pick out accessories for this application: TA4207BS Backstop assembly (MTA II 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

Torque-Arm shaft mount reducers and screw conveyor drives

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

Name		Company name		
Phone no.	Fax no.	Email		
Application data				
Driven equipment				
Type	RPM	Shaft size		
Hours of service/day	Class of service			
Type of load	Uniform	Moderate	Shocks	
Screw conveyor applications				
Screw diameter		Drive shaft 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		Vertical mounting - Output shaft vertical		
				
Position A		Position C		
				
		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 taper bushing kit		Standard shaft		Short shaft
Rod assembly		Backstop		Adapter & Hardware kit
Adjustable packing kit		Drive shaft		Stainless drive shafts
Other				

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 based speed.
3. Anti-friction bearings only. Use 1.5 for sleeve bearings.
4. A service factor of 1.00 may be applied at base speed of a super calender operating over-speed range of part range constant power, part range constant torque where the constant power speed range is greater than 1.5 to 1. 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.

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 (Includes 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	2.50	2.50	2.50
Auxiliary hoist	2.50	2.50	3.00
Boom hoist	2.50	2.50	3.00
Slewing drive	2.50	2.50	3.00
Traction drive	3.00	3.00	3.00

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	3.00	3.00	3.00
Boom hoist	2.00	2.00	2.00
Trolley drive			
Gantry drive	3.00	3.00	3.00
Traction drive	2.00	2.00	2.00
Mill duty			
Main hoist	3.50	3.50	3.50
Auxiliary	3.50	3.50	3.50
Bridge travel	2.50	3.00	3.00
Trolley travel	2.50	3.00	3.00
Industrial duty			
Main	2.50	2.50	3.00
Auxiliary	2.50	2.50	3.00
Bridge travel	2.50	3.00	3.00
Trolley travel	2.50	3.00	3.00
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

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

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

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

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
Supercalendar ⁽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

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Determining service class

Class I - 1.0 service factor, Class II - 1.4 service factor, Class III - 2.0 service factor (cont.)

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
Sewage disposal equipment (continued)			
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

Notes:

1. Because crane drive selections may require a service factor, KSF, 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, KSF, 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 A.3 for paper mill applications are consistent with those show in TAPPI (Technical Association of Pulp and Paper Industry) 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 1.00 may be applied at base speed of a super calender operating over a speed range of part range constant power, part range constant torque where the constant power speed range is greater than 1.5 to 1. 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.

MTA2 - MTA8 Nomenclature and Descriptions

(TSC – accommodates NEMA TS short shaft frame, 2 pole, 280 frame and above)

MTA C-Face reducer nomenclature

M6H67T28C Torque-Arm reducer only

M - Motorized Torque-Arm II

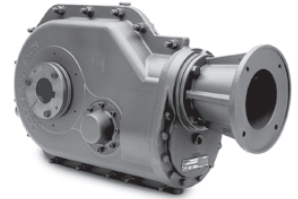
6 - Case size

H - Heavy duty

67 - Nominal ratio

T - Tapered bore

28 - 280 - Motor frame, C - NEMA - C-Face



Part number	Part number	Part number	Part number	Part number	Part number	Part number
M2H15T18C	M3H14T21C	M4H14T21C	M5H14T25C	M6H14T28C	M7H14T25C	M8H14T36C
M2H15T21C	M3H14T25C	M4H14T25C	M5H14T28C	M6H14T32C	M7H14T32C	M8H14T405C
M2H15T25C	M3H14T28TSC	M4H14T28C	M5H14T32C	M6H14T36C	M7H14T36C	M8H17T36C
M2H18T14C	M3H17T21C	M4H18T18C	M5H14T36C	M6H19T28C	M7H14T405C	M8H17T405C
M2H18T18C	M3H17T25C	M4H18T21C	M5H18T21C	M6H19T32C	M7H19T25C	M8H23T32C
M2H18T21C	M3H17T28TSC	M4H18T25C	M5H18T25C	M6H19T32TSC	M7H19T32C	M8H23T36C
M2H18T25C	M3H21T18C	M4H18T28C	M5H18T28C	M6H19T36C	M7H19T36C	M8H23T405C
M2H21T14C	M3H21T21C	M4H18T28TSC	M5H18T32C	M6H19T36TSC	M7H19T405C	M8H27T28C
M2H21T18C	M3H21T25C	M4H18T32TSC	M5H18T32TSC	M6H22T25C	M7H22T32C	M8H27T32C
M2H21T21C	M3H21T28TSC	M4H22T18C	M5H18T36C	M6H22T28C	M7H22T36C	M8H27T36C
M2H21T25C	M3H25T18C	M4H22T21C	M5H18T36TSC	M6H22T32C	M7H22T405C	M8H27T405C
M2H25T14C	M3H25T21C	M4H22T25C	M5H21T18C	M6H22T32TSC	M7H26T25C	M8H31T32C
M2H25T18C	M3H25T25C	M4H22T28C	M5H21T25C	M6H22T36C	M7H26T28C	M8H31T36C
M2H25T21C	M3H25T28TSC	M4H22T28TSC	M5H21T28C	M6H22T36TSC	M7H26T32C	M8H31T405C
M2H25T25C	M3H29T18C	M4H22T32TSC	M5H21T32C	M6H24T25C	M7H26T36C	M8H31T405TSC
M2H30T14C	M3H29T21C	M4H26T18C	M5H21T32TSC	M6H24T28C	M7H26T36TSC	M8H34T32C
M2H30T18C	M3H29T25C	M4H26T21C	M5H21T36TSC	M6H24T32C	M7H26T405TSC	M8H34T36C
M2H30T21C	M3H29T28TSC	M4H26T25C	M5H25T25C	M6H24T32TSC	M7H29T25C	M8H34T405C
M2H30T25C	M3H32T18C	M4H26T28C	M5H25T28C	M6H24T36C	M7H29T32C	M8H34T405TSC
M2H32T14C	M3H32T21C	M4H26T28TSC	M5H25T28TSC	M6H24T36TSC	M7H29T32TSC	M8H40T32C
M2H32T18C	M3H32T25C	M4H26T32TSC	M5H25T32C	M6H29T25C	M7H29T36C	M8H40T36C
M2H32T21C	M3H35T14C	M4H30T18C	M5H25T32TSC	M6H29T28C	M7H29T36TSC	M8H40T36TSC
M2H32T25C	M3H35T18C	M4H30T21C	M5H25T36TSC	M6H29T28TSC	M7H29T405TSC	M8H40T405TSC
M2H36T14C	M3H35T21C	M4H30T25C	M5H29T18C	M6H29T32C	M7H33T28C	M8H46T28C
M2H36T18C	M3H35T25C	M4H30T28TSC	M5H29T21C	M6H29T32TSC	M7H33T32C	M8H46T32C
M2H36T21C	M3H38T14C	M4H30T32TSC	M5H29T25C	M6H29T36TSC	M7H33T36C	M8H46T36C
M2H36T25C	M3H38T18C	M4H34T18C	M5H29T28C	M6H34T25C	M7H33T36TSC	M8H46T36TSC
M2H39T14C	M3H38T21C	M4H34T21C	M5H29T28TSC	M6H34T28C	M7H33T405TSC	M8H46T405TSC
M2H39T18C	M3H38T25C	M4H34T25C	M5H29T32C	M6H34T32C	M7H38T21C	M8H51T32C
M2H39T21C	M3H44T18C	M4H34T28TSC	M5H29T32TSC	M6H34T32TSC	M7H38T25C	M8H51T36C
M2H44T14C	M3H44T21C	M4H34T32TSC	M5H29T36TSC	M6H34T36TSC	M7H38T28C	M8H51T36TSC
M2H44T18C	M3H44T25C	M4H41T18C	M5H34T18C	M6H39T21C	M7H38T32C	M8H51T405TSC
M2H44T21C	M3H47T18C	M4H41T21C	M5H34T21C	M6H39T25C	M7H38T32TSC	M8H53T28C
M2H47T14C	M3H47T21C	M4H41T25C	M5H34T25C	M6H39T28C	M7H38T36C	M8H53T32C
M2H47T18C	M3H47T25C	M4H41T28C	M5H34T28C	M6H39T32C	M7H38T36TSC	M8H53T36C
M2H47T21C	M3H51T18C	M4H41T28TSC	M5H34T28TSC	M6H39T32TSC	M7H38T405TSC	M8H53T36TSC
M2H51T14C	M3H51T21C	M4H44T18C	M5H34T32TSC	M6H39T36TSC	M7H44T21C	M8H53T405C
M2H51T18C	M3H51T25C	M4H44T21C	M5H34T36TSC	M6H45T21C	M7H44T25C	M8H53T405TSC
M2H51T21C	M3H58T18C	M4H44T25C	M5H40T18C	M6H45T25C	M7H44T28C	M8H60T32C
M2H58T14C	M3H58T21C	M4H44T28TSC	M5H40T21C	M6H45T28C	M7H44T32C	M8H60T36C
M2H58T18C	M3H65T18C	M4H49T18C	M5H40T25C	M6H45T32TSC	M7H44T36C	M8H60T36TSC
M2H58T21C	M3H65T21C	M4H49T21C	M5H40T28C	M6H45T36TSC	M7H44T36TSC	M8H60T405TSC
M2H66T14C	M3H70T18C	M4H49T25C	M5H40T28TSC	M6H50T21C	M7H44T405TSC	M8H69T28C
M2H66T18C	M3H70T21C	M4H49T28TSC	M5H40T32TSC	M6H50T25C	M7H51T25C	M8H69T32C
M2H66T21C	M3H76T18C	M4H52T18C	M5H43T18C	M6H50T28C	M7H51T28C	M8H69T32TSC
M2H71T14C	M3H76T21C	M4H52T21C	M5H43T21C	M6H50T32TSC	M7H51T32C	M8H69T36TSC
M2H71T18C	–	M4H52T25C	M5H43T25C	M6H50T36TSC	M7H51T32TSC	M8H69T405TSC
M2H71T21C	–	M4H52T28TSC	M5H43T28C	M6H52T21C	M7H51T36TSC	M8H79T25C
M2H71T56C	–	M4H61T18C	M5H43T28TSC	M6H52T25C	M7H58T21C	M8H79T28C
M2H77T14C	–	M4H61T21C	M5H43T32TSC	M6H52T28C	M7H58T25C	M8H79T32C

Note: Use EZ-Selection Charts and verify required base C-Face motor speed before ordering

MTA2 - MTA8 Nomenclature and descriptions

TSC – accommodates NEMA TS short shaft frame, 2 pole, 280 frame and above (contd.)

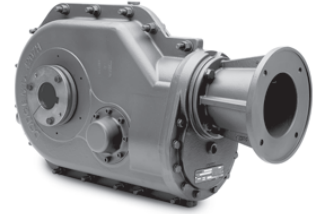
MTA C-Face reducer nomenclature M6H67T28C Torque-Arm reducer only

M - Motorized Torque-Arm II

6 - Case size **H** - Heavy duty

67 - Nominal ratio **T** - Tapered bore

28 - 280 - Motor frame, C - NEMA - C-Face



Part number	Part number	Part number	Part number	Part number	Part number	Part number
M2H77T18C	–	M4H61T25C	M5H48T21C	M6H52T28TSC	M7H58T28C	M8H79T32TSC
M2H77T21C	–	M4H66T18C	M5H48T25C	M6H52T32TSC	M7H58T32C	M8H79T36TSC
–	–	M4H66T21C	M5H48T28C	M6H52T36TSC	M7H58T32TSC	–
–	–	M4H66T25C	M5H48T28TSC	M6H59T21C	M7H58T36TSC	–
–	–	M4H74T18C	M5H48T32TSC	M6H59T25C	M7H67T25C	–
–	–	M4H74T21C	M5H51T18C	M6H59T28C	M7H67T28C	–
–	–	M4H74T25C	M5H51T21C	M6H59T32TSC	M7H67T32C	–
–	–	–	M5H51T25C	M6H67T21C	M7H67T32TSC	–
–	–	–	M5H51T28C	M6H67T25C	M7H67T36TSC	–
–	–	–	M5H51T28TSC	M6H67T28C	M7H76T21C	–
–	–	–	M5H51T32TSC	M6H67T28TSC	M7H76T25C	–
–	–	–	M5H60T21C	M6H67T32TSC	M7H76T28C	–
–	–	–	M5H60T25C	M6H79T21C	M7H76T32TSC	–
–	–	–	M5H60T28TSC	M6H79T25C	–	–
–	–	–	M5H60T32TSC	M6H79T28TSC	–	–
–	–	–	M5H65T18C	M6H79T32TSC	–	–
–	–	–	M5H65T21C	–	–	–
–	–	–	M5H65T25C	–	–	–
–	–	–	M5H65T28TSC	–	–	–
–	–	–	M5H72T18C	–	–	–
–	–	–	M5H72T21C	–	–	–
–	–	–	M5H72T25C	–	–	–
–	–	–	M5H72T28C	–	–	–
–	–	–	M5H72T28TSC	–	–	–

Note: Use EZ-Selection Charts and verify required base C-Face motor speed before ordering

MTA2 - MTA8 Nomenclature and descriptions

TSC – accommodates NEMA TS short shaft frame, 2 pole, 280 frame and above (contd.)

MTA C-Face Gearmotor nomenclature

M6H67T28C2518 Torque-Arm reducer and motor

M - Motorized Torque-Arm II

6 - Case size

H - Heavy duty

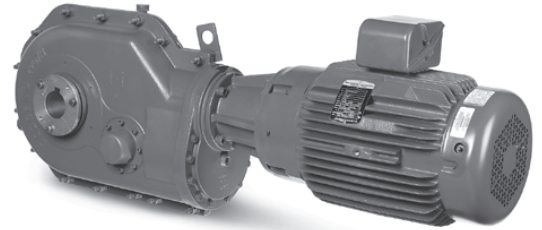
67 - Nominal ratio

T - Tapered bore

28 - 280 - Motor frame, C - NEMA - C-Face, (TSC - accommodates NEMA TS short shaft frame, 2 pole, 280 frame and above)

25 - 25 Hp motor

18 - 1800 RPM motor speed



Part number	Part number	Part number	Part number	Part number	Part number	Part number
M2H15T21C1018	M3H14T25C2018	M4H14T28C2518	M5H14T32C4018	M6H134T21C718	M7H14T36C7518	M8H14T36C7518
M2H15T25C1518	M3H14T28TSC2536	M4H14T28C3018	M5H14T36C6018	M6H14T36C6018	M7H14T405C10018	M8H14T405C10018
M2H15T25C1536	M3H14T28TSC3036	M4H18T21C1018	M5H18T21C1018	M6H14T36C7518	M7H19T32C4018	M8H17T36C7518
M2H15T25C2036	M3H17T21C1018	M4H18T25C1518	M5H18T25C1518	M6H19T718C318	M7H19T36C6018	M8H17T405C10018
M2H18T18C318	M3H17T25C1518	M4H18T25C1536	M5H18T25C2018	M6H19T18C518	M7H19T36C7518	M8H23T32C4018
M2H18T18C518	M3H17T25C2018	M4H18T25C2018	M5H18T28C2518	M6H19T28C2518	M7H19T405C10018	M8H23T36C7518
M2H18T21C1018	M3H17T28TSC2536	M4H18T28C2518	M5H18T28C3018	M6H19T32C4018	M7H22T36C6018	M8H23T405C10018
M2H18T21C1036	M3H17T28TSC3036	M4H18T28C3018	M5H18T32C4018	M6H19T32C5018	M7H22T36C7518	M8H27T32C5018
M2H18T21C718	M3H21T21C1018	M4H18T32TSC4036	M5H18T32C5018	M6H19T36C6018	M7H22T405C10018	M8H27T36C7518
M2H18T21C736	M3H21T25C1518	M4H18T32TSC5036	M5H18T32TSC5036	M6H19T36C7518	M7H26T32C4018	M8H27T405C10018
M2H18T25C1518	M3H21T25C2018	M4H22T21C1018	M5H18T36C6018	M6H22T25C1518	M7H26T32C5018	M8H31T28C2518
M2H18T25C1536	M3H21T28TSC2536	M4H22T21C718	M5H18T36TSC6036	M6H22T32C4018	M7H26T36C6018	M8H31T28C3018
M2H18T25C2018	M3H21T28TSC3036	M4H22T25C1518	M5H18T36TSC7536	M6H22T32C5018	M7H26T36C7518	M8H31T36C6018
M2H18T25C2036	M3H25T21C1018	M4H22T25C2018	M5H21T25C1518	M6H22T36C6018	M7H26T36TSC7536	M8H31T36C7518
M2H21T18C318	M3H25T21C718	M4H22T28C2518	M5H21T25C2018	M6H22T36TSC7536	M7H29T32C4018	M8H31T405C10018
M2H21T18C518	M3H25T25C1518	M4H22T28C3018	M5H21T28C2518	M6H24T25C1518	M7H29T32C5018	M8H34T36C6018
M2H21T21C1018	M3H25T25C2018	M4H22T28TSC2536	M5H21T28C3018	M6H24T28C2518	M7H29T36C6018	M8H34T36C7518
M2H21T21C718	M3H25T25C2036	M4H22T28TSC3036	M5H21T28TSC2536	M6H24T28C3018	M7H29T36C7518	M8H34T405C10018
M2H21T25C1536	M3H25T28TSC3036	M4H22T32TSC5036	M5H21T32C4018	M6H24T32C4018	M7H29T36TSC7536	M8H40T32C5018
M2H21T25C2036	M3H29T18C518	M4H26T18C536	M5H21T32C5018	M6H24T32C5018	M7H33T32C4018	M8H40T36C6018
M2H25T18C318	M3H29T21C1018	M4H26T21C1018	M5H21T32TSC4036	M6H24T36C6018	M7H33T32C5018	M8H40T36C7518
M2H25T18C518	M3H29T21C718	M4H26T21C718	M5H21T32TSC5036	M6H24T36TSC6036	M7H33T36C7518	M8H46T32C4018
M2H25T21C1018	M3H29T25C1518	M4H26T25C1518	M5H21T36TSC6036	M6H24T36TSC7536	M7H33T36TSC7536	M8H46T32C5018
M2H25T21C1036	M3H29T25C1536	M4H26T25C2018	M5H21T36TSC7536	M6H29T25C1518	M7H38T28C3018	M8H46T36C6018
M2H25T21C718	M3H29T25C2018	M4H26T28C2518	M5H25T21C1018	M6H29T25C2018	M7H38T32C4018	M8H46T36C7518
M2H25T21C736	M3H29T25C2036	M4H26T28TSC2536	M5H25T25C1518	M6H29T28C2518	M7H38T32C5018	M8H51T32C5018
M2H25T25C1536	M3H29T28TSC2536	M4H26T28TSC3036	M5H25T28C2518	M6H29T28C3018	M7H38T36C6018	M8H51T36C7518
M2H30T18C318	M3H32T21C1018	M4H26T32TSC4036	M5H25T28C3018	M6H29T32C4018	M7H38T36TSC7536	M8H53T28C3018
M2H30T18C518	M3H32T21C718	M4H30T18C518	M5H25T32C4018	M6H29T32C5018	M7H44T28C2518	M8H53T32C4018
M2H30T18C536	M3H32T25C1518	M4H30T21C1018	M5H25T32C5018	M6H29T32TSC4036	M7H44T32C4018	M8H53T32C5018
M2H30T21C1018	M3H32T25C1536	M4H30T21C718	M5H25T32TSC4036	M6H29T32TSC5036	M7H44T36C6018	M8H53T36C6018
M2H30T21C1036	M3H32T25C2036	M4H30T25C1518	M5H25T32TSC5036	M6H29T36TSC6036	M7H44T36TSC6036	M8H53T36TSC7536
M2H30T21C718	M3H35T18C518	M4H30T25C2018	M5H25T36TSC6036	M6H29T36TSC7536	M7H44T36TSC7536	M8H60T32C4018
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M2H30T25C1536	M3H35T21C718	M4H30T28TSC2536	M5H29T25C1518	M6H34T25C2018	M7H51T28C3018	M8H60T36C6018
M2H32T18C318	M3H35T25C1536	M4H30T28TSC3036	M5H29T25C2018	M6H34T28C2518	M7H51T32C4018	M8H60T36TSC7536
M2H32T18C518	M3H35T25C2036	M4H30T32TSC4036	M5H29T28C2518	M6H34T28C3018	M7H51T32C5018	M8H69T28C3018
M2H32T21C1036	M3H38T18C518	M4H34T21C1018	M5H29T28C3018	M6H34T32C4018	M7H51T36TSC6036	M8H69T32C4018
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M2H32T21C736	M3H38T21C718	M4H34T25C1518	M5H29T32TSC4036	M6H34T32TSC4036	M7H58T21C1018	M8H69T36TSC7536
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M2H36T18C318	M3H38T25C2036	M4H34T28TSC2536	M5H29T36TSC6036	M6H34T36TSC6036	M7H58T28C2518	M8H79T28C3018
M2H36T18C518	M3H44T21C1018	M4H34T28TSC3036	M5H34T18C518	M6H34T36TSC7536	M7H58T28C3018	M8H79T32C4018
M2H36T21C718	M3H44T21C718	M4H34T32TSC4036	M5H34T21C1018	M6H39T18C518	M7H58T32C4018	M8H79T32C5018
M2H36T25C1536	M3H44T25C1536	M4H41T18C518	M5H34T21C718	M6H39T25C1518	M7H58T36TSC6036	M8H79T36TSC6036
M2H39T18C318	M3H44T25C2036	M4H41T21C1018	M5H34T25C1518	M6H39T25C2018	M7H58T36TSC7536	M8H79T36TSC7536
M2H39T18C518	M3H47T21C1018	M4H41T21C718	M5H34T25C2018	M6H39T28C2518	M7H67T25C2018	-

Note: Use EZ-Selection Charts and verify required base C-Face motor speed before ordering

MTA2 - MTA8 Nomenclature and descriptions

TSC – accommodates NEMA TS short shaft frame, 2 pole, 280 frame and above (contd.)

MTA C-Face Gearmotor nomenclature

M6H67T28C2518 Torque-Arm reducer and motor

M - Motorized Torque-Arm II

6 - Case size

H - Heavy duty

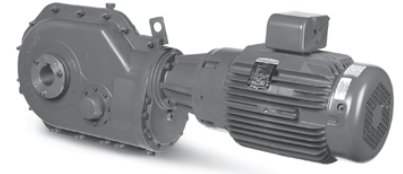
67 - Nominal ratio

T - Tapered bore

28 - 280 - Motor frame, C - NEMA - C-Face, (TSC - accommodates NEMA TS short shaft frame, 2 pole, 280 frame and above)

25 - 25 Hp motor

18 - 1800 RPM motor speed



Part number	Part number	Part number	Part number	Part number	Part number	Part number
M2H39T21C1036	M3H47T21C1036	M4H41T25C1518	M5H34T28C2518	M6H39T28C3018	M7H67T28C2518	-
M2H39T21C718	M3H47T21C718	M4H41T25C2036	M5H34T28C3018	M6H39T32C4018	M7H67T28C3018	-
M2H44T18C318	M3H47T25C1536	M4H41T28TSC3036	M5H34T32TSC4036	M6H39T32TSC5036	M7H67T32C4018	-
M2H44T18C518	M3H51T18C518	M4H44T18C518	M5H34T36TSC6036	M6H39T36TSC7536	M7H67T32TSC5036	-
M2H44T21C1036	M3H51T21C1018	M4H44T21C1018	M5H40T21C1018	M6H45T21C1018	M7H67T36TSC7536	-
M2H44T21C718	M3H51T21C1036	M4H44T21C718	M5H40T21C718	M6H45T25C2018	M7H76T25C2018	-
M2H44T21C736	M3H51T21C718	M4H44T25C1518	M5H40T25C1518	M6H45T28C2518	M7H76T28C2518	-
M2H47T18C318	M3H51T25C1536	M4H44T25C1536	M5H40T25C2018	M6H45T28C3018	M7H76T28C3018	-
M2H47T18C518	M3H58T18C518	M4H44T25C2036	M5H40T28C3018	M6H45T32TSC5036	M7H76T32TSC4036	-
M2H47T21C1036	M3H58T21C718	M4H44T28TSC3036	M5H40T28TSC2536	M6H45T36TSC6036	M7H76T36TSC6036	-
M2H47T21C736	M3H65T18C518	M4H49T21C1018	M5H40T32TSC4036	M6H50T21C718	M7H76T36TSC6036	-
M2H51T18C318	M3H65T21C1036	M4H49T21C1036	M5H40T32TSC5036	M6H50T25C1518	-	-
M2H51T18C518	M3H65T21C718	M4H49T25C1518	M5H43T21C1018	M6H50T25C2018	-	-
M2H51T21C1036	M3H70T18C518	M4H49T25C1536	M5H43T25C1518	M6H50T28C2518	-	-
M2H51T21C736	M3H76T18C318	M4H49T25C2036	M5H43T25C2018	M6H50T28C3018	-	-
M2H58T18C318	M3H76T18C518	M4H49T28TSC2536	M5H43T28C3018	M6H50T32TSC4036	-	-
M2H58T18C518	-	M4H52T18C518	M5H43T28TSC3036	M6H50T36TSC6036	-	-
M2H66T18C318	-	M4H52T21C1018	M5H43T32TSC5036	M6H52T21C1018	-	-
M2H66T18C518	-	M4H52T21C718	M5H48T25C1518	M6H52T21C718	-	-
M2H66T18C536	-	M4H52T25C1518	M5H48T25C2018	M6H52T25C1518	-	-
M2H66T21C736	-	M4H52T25C1536	M5H48T28C2518	M6H52T25C2018	-	-
M2H71T18C318	-	M4H52T25C2036	M5H48T28TSC3036	M6H52T28C2518	-	-
M2H77T18C318	-	M4H52T28TSC2536	M5H48T32TSC5036	M6H52T28C3018	-	-
M2H77T18C536	-	M4H61T21C1018	M5H51T21C718	M6H52T32TSC4036	-	-
M3H14T25C1518	-	M4H61T21C718	M5H51T25C1518	M6H52T36TSC6036	-	-
-	-	M4H61T25C1536	M5H51T28C2518	M6H59T25C1518	-	-
-	-	M4H61T25C2036	M5H51T28TSC2536	M6H59T25C2018	-	-
-	-	M4H66T21C1018	M5H51T28TSC3036	M6H59T28C2518	-	-
-	-	M4H66T21C718	M5H51T32TSC4036	M6H59T28C3018	-	-
-	-	M4H66T25C1536	M5H60T21C718	M6H59T32TSC4036	-	-
-	-	M4H66T25C2036	M5H60T25C1518	M6H59T32TSC5036	-	-
-	-	M4H74T18C318	M5H60T25C2018	M6H67T25C1518	-	-
-	-	M4H74T18C518	M5H60T28TSC3036	M6H67T25C2018	-	-
-	-	M4H74T21C1018	M5H60T32TSC4036	M6H67T28C2518	-	-
-	-	M4H74T21C1036	M5H65T21C1018	M6H67T28TSC3036	-	-
-	-	M4H74T21C718	M5H65T21C718	M6H67T32TSC5036	-	-
-	-	M4H74T25C2036	M5H65T25C2018	M6H79T21C1018	-	-
-	-	-	M5H65T25C2036	M6H79T21C718	-	-
-	-	-	M5H65T28TSC2536	M6H79T25C1518	-	-
-	-	-	M5H65T28TSC3036	M6H79T25C2018	-	-
-	-	-	M5H72T18C318	M6H79T28TSC3036	-	-
-	-	-	M5H72T18C518	M6H79T32TSC4036	-	-
-	-	-	M5H72T21C1018	-	-	-
-	-	-	M5H72T25C1518	-	-	-
-	-	-	M5H72T28TSC2536	-	-	-
-	-	-	M5H72T28TSC3036	-	-	-

Note: Use EZ-Selection Charts and verify required base C-Face motor speed before ordering

MTA2 - MTA8 Nomenclature and descriptions

TSC – accommodates NEMA TS short shaft frame, 2 pole, 280 frame and above (contd.)

MTA C-Face Severe Duty Gearmotor nomenclature

M6H67T25C1518CP Torque-Arm reducer and motor

M - Motorized Torque-Arm II

6 - Case size

H - Heavy duty

67 - Nominal ratio

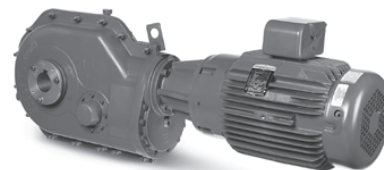
T - Tapered bore

25 - 250 - Motor frame, **C** - NEMA - C-Face, (TSC - accommodates

NEMA TS short shaft frame, 2 pole, 280 frame and above)

15 - 15 Hp motor

18 - 1800 RPM motor speed **CP** = severe duty motor - CECF



Part number	Part number	Part number	Part number	Part number	Part number	Part number
M2H15T21C1018CP	M3H14T28TSC2536CP	M4H14T28C2518CP	M5H14T32C4018CP	M6H14T36C6018CP	M7H14T36C7518CP	M8H14T405C10018CP
M2H15T25C1536CP	M3H17T25C1518CP	M4H18T28C2518CP	M5H18T25C1518CP	M6H19T32C4018CP	M7H19T36C7518CP	M8H17T405C10018CP
M2H18T21C1018CP	M3H17T28TSC2536CP	M4H18T32TSC4036CP	M5H18T28C3018CP	M6H19T32C5018CP	M7H22T36C7518CP	M8H23T405C10018CP
M2H18T25C1536CP	M3H21T25C1518CP	M4H22T25C2018CP	M5H18T32C4018CP	M6H19T36C6018CP	M7H26T32C4018CP	M8H27T36C7518CP
M2H21T21C1018CP	M3H21T28TSC2536CP	M4H22T28TSC3036CP	M5H18T32TSC5036CP	M6H22T32C4018CP	M7H26T36C6018CP	M8H31T36C7518CP
M2H21T21C718CP	M3H25T21C1018CP	M4H26T25C1518CP	M5H21T21C718CP	M6H22T32C5018CP	M7H26T405TSC10036P	M8H31T405TSC10036P
M2H21T25C1536CP	M3H25T25C2036CP	M4H26T25C2018CP	M5H21T28C2518CP	M6H22T36TSC7536CP	M7H29T36C6018CP	M8H34T32C5018CP
M2H25T21C1036CP	M3H29T18C518CP	M4H26T28TSC3036CP	M5H21T28C3018CP	M6H24T32C4018CP	M7H29T36TSC7536CP	M8H34T36C6018CP
M2H25T21C718CP	M3H29T21C1018CP	M4H30T25C1518CP	M5H21T32C4018CP	M6H24T32C5018CP	M7H29T405TSC10036P	M8H34T36C7518CP
M2H30T18C318CP	M3H29T25C1536CP	M4H30T28TSC3036CP	M5H21T32TSC5036CP	M6H24T36TSC7536CP	M7H33T32C4018CP	M8H34T405TSC10036P
M2H30T18C518CP	M3H29T25C2036CP	M4H34T25C1518CP	M5H25T25C2018CP	M6H29T32C4018CP	M7H33T32C5018CP	M8H40T36C6018CP
M2H30T21C1036CP	M3H32T21C1018CP	M4H34T28TSC3036CP	M5H25T28C2518CP	M6H29T32TSC5036CP	M7H33T36TSC7536CP	M8H40T405TSC10036P
M2H32T18C518CP	M3H32T25C1536CP	M4H41T21C1018CP	M5H25T28C3018CP	M6H29T36TSC6036CP	M7H33T405TSC10036P	M8H46T36C6018CP
M2H32T21C1036CP	M3H35T21C1018CP	M4H41T25C2036CP	M5H25T32TSC5036CP	M6H29T36TSC7536CP	M7H38T21C1018CP	M8H46T405TSC10036P
M2H36T18C518CP	M3H35T25C1536CP	M4H44T21C1018CP	M5H29T18C518CP	M6H34T28C2518CP	M7H38T28C3018CP	M8H51T32C5018CP
M2H36T21C1036CP	M3H38T21C718CP	M4H44T25C2036CP	M5H29T21C1018CP	M6H34T28C3018CP	M7H38T32C4018CP	M8H51T405TSC10036P
M2H39T18C518CP	M3H38T25C1536CP	M4H49T21C1018CP	M5H29T21C718CP	M6H34T36TSC6036CP	M7H38T36TSC7536CP	M8H53T32C5018CP
M2H39T21C1036CP	M3H44T21C718CP	M4H49T25C2036CP	M5H29T25C1518CP	M6H39T25C2018CP	M7H44T32C4018CP	M8H53T36TSC7536CP
M2H44T18C518CP	M3H44T25C1536CP	M4H52T21C1018CP	M5H29T25C2018CP	M6H39T28C3018CP	M7H44T36TSC7536CP	M8H60T32C4018CP
M2H44T21C736CP	M3H47T21C1036CP	M4H52T25C1536CP	M5H29T28C3018CP	M6H39T32TSC5036CP	M7H51T28C3018CP	M8H60T36TSC7536CP
M2H47T18C318CP	M3H47T21C718CP	M4H61T21C718CP	M5H29T32TSC4036CP	M6H45T28C2518CP	M7H51T36TSC6036CP	M8H69T32C4018CP
M2H47T21C736CP	M3H51T18C518CP	M4H61T25C1536CP	M5H34T25C2018CP	M6H45T32TSC5036CP	M7H58T28C2518CP	M8H69T36TSC7536CP
M2H51T18C318CP	M3H51T21C1036CP	M4H66T21C718CP	M5H34T28C2518CP	M6H50T28C2518CP	M7H58T28C3018CP	M8H79T28C3018CP
M2H51T21C736CP	M3H58T18C518CP	M4H66T25C1536CP	M5H34T32TSC4036CP	M6H50T32TSC4036CP	M7H58T36TSC6036CP	M8H79T36TSC6036CP
M2H54T18C318CP	M3H65T18C518CP	M4H74T21C1036CP	M5H40T25C2018CP	M6H52T25C2018CP	M7H67T28C2518CP	-
M2H58T18C318CP	M3H65T21C1036CP	M4H74T21C718CP	M5H40T32TSC4036CP	M6H52T28C2518CP	M7H67T28C3018CP	-
M2H66T18C318CP	M3H70T18C518CP	-	M5H43T25C2018CP	M6H52T32TSC4036CP	M7H67T32TSC5036CP	-
M2H66T18C536CP	M3H76T18C518CP	-	M5H43T28TSC3036CP	M6H59T25C2018CP	M7H76T21C1018CP	-
M2H71T18C318CP	-	-	M5H48T25C1518CP	M6H59T32TSC4036CP	M7H76T25C1518CP	-
M2H77T18C318CP	-	-	M5H48T28TSC3036CP	M6H67T25C2018CP	M7H76T25C2018CP	-
M3H14T25C1518CP	-	-	M5H51T25C1518CP	M6H67T28TSC3036CP	M7H76T28C2518CP	-
-	-	-	M5H51T28TSC3036CP	M6H79T25C1518CP	M7H76T32TSC4036CP	-
-	-	-	M5H60T25C1518CP	M6H79T28TSC3036CP	-	-
-	-	-	M5H60T28TSC3036CP	-	-	-
-	-	-	M5H65T21C1018CP	-	-	-
-	-	-	M5H65T21C718CP	-	-	-
-	-	-	M5H65T28TSC2536CP	-	-	-
-	-	-	M5H72T21C1018CP	-	-	-
-	-	-	M5H72T28TSC2536CP	-	-	-

Note: Use EZ-Selection Charts and verify required base C-Face motor speed before ordering

MTA2 - MTA8 Nomenclature and descriptions

TSC – accommodates NEMA TS short shaft frame, 2 pole, 280 frame and above (contd.)

MTA C-Face High Torque Gearmotor nomenclature M6H59T25C1518CR Torque-Arm reducer and motor

- M** - Motorized Torque-Arm II
6 - Case size **H** - Heavy duty
67 - Nominal ratio **T** - Tapered bore
25 - **250** - Motor frame, C - NEMA - C-Face
15 - **15** Hp motor, **18** - **1800** RPM motor speed, **CR** = C-face high torque motor



Part number	Part number	Part number	Part number	Part number	Part number	Part number
-	-	M4H14T25C1518CR	M5H14T28C3018CR	M6H14T32C4018CR	M7H14T36C6018CR	M8H14T36C7518CR
-	-	M4H18T25C1518CR	M5H18T28C3018CR	M6H19T32C4018CR	M7H19T36C6018CR	M8H17T36C7518CR
-	-	M4H22T25C1518CR	M5H21T28C2518CR	M6H22T28C3018CR	M7H22T32C5018CR	M8H23T36C7518CR
-	-	-	M5H25T25C2018CR	M6H24T28C3018CR	M7H26T32C4018CR	M8H27T36C6018CR
-	-	-	M5H29T25C1518CR	M6H29T28C3018CR	M7H29T32C4018CR	M8H31T32C5018CR
-	-	-	M5H29T25C2018CR	M6H34T28C2518CR	M7H33T28C3018CR	M8H34T32C5018CR
-	-	-	M5H34T25C1518CR	M6H39T25C2018CR	M7H38T28C3018CR	M8H40T32C4018CR
-	-	-	M5H40T25C1518CR	M6H45T25C1518CR	M7H44T28C2518CR	M8H46T32C4018CR
-	-	-	-	M6H45T25C2018CR	M7H51T25C2018CR	M8H51T28C3018CR
-	-	-	-	M6H50T25C1518CR	M7H58T25C2018CR	M8H53T28C3018CR
-	-	-	-	M6H52T25C1518CR	M7H67T25C1518CR	M8H60T28C3018CR
-	-	-	-	M6H59T25C1518CR	M7H76T25C1518CR	M8H69T28C2518CR
-	-	-	-	-	-	M8H79T28C2518CR

Note: Use EZ-Selection Charts and verify required base C-Face motor speed before ordering

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Engineering Selections

MTA2 horsepower and torque ratings

MTA2115							
Ratio	Mtr speed	NEMA 180TC		NEMA 210TC		NEMA 250TC	
		1750	3450	1750	3450	1750	3450
76.96	Output RPM	23	45	—	45	—	—
	Class I catalog Hp	4.4	8.4	—	8.4	—	—
	Class I torque in-lbs	11155	10700	—	10700	—	—
	Part number	M2H77T18C	M2H77T18C	—	M2H77T21C	—	—
71.18	Output RPM	25	48	—	48	—	—
	Class I catalog Hp	4.8	8.9	—	8.9	—	—
	Class I torque in-lbs	11155	10645	—	10645	—	—
	Part number	M2H71T18C	M2H71T18C	—	M2H71T21C	—	—
66.07	Output RPM	26	52	—	52	—	—
	Class I catalog Hp	5.0	9.5	—	9.5	—	—
	Class I torque in-lbs	11155	10525	—	10525	—	—
	Part number	M2H66T18C	M2H66T18C	—	M2H66T21C	—	—
58.29	Output RPM	30	59	—	59	—	—
	Class I catalog Hp	5.8	10.5	—	10.5	—	—
	Class I torque in-lbs	11155	10300	—	10300	—	—
	Part number	M2H58T18C	M2H58T18C	—	M2H58T21C	—	—
51.31	Output RPM	34	67	—	67	—	—
	Class I catalog Hp	6.5	11.7	—	11.7	—	—
	Class I torque in-lbs	11050	10145	—	10145	—	—
	Part number	M2H51T18C	M2H51T18C	—	M2H51T21C	—	—
47.45	Output RPM	37	73	—	73	—	—
	Class I catalog Hp	7.0	12.5	—	12.5	—	—
	Class I torque in-lbs	10950	9874	—	9874	—	—
	Part number	M2H47T18C	M2H47T18C	—	M2H47T21C	—	—
44.05	Output RPM	40	78	40	78	—	—
	Class I catalog Hp	7.6	13.1	7.6	13.1	—	—
	Class I torque in-lbs	10888	9639	10888	9639	—	—
	Part number	M2H44T18C	M2H44T18C	M2H44T21C	M2H44T21C	—	—
38.86	Output RPM	45	89	45	89	—	—
	Class I catalog Hp	8.4	14.6	8.4	14.6	—	—
	Class I torque in-lbs	10700	9440	10700	9440	—	—
	Part number	M2H39T18C	M2H39T18C	M2H39T21C	M2H39T21C	—	—
35.88	Output RPM	49	96	49	96	—	96
	Class I catalog Hp	9.0	15.4	9.0	15.4	—	15.4
	Class I torque in-lbs	10600	9210	10600	9210	—	9210
	Part number	M2H36T18C	M2H36T18C	M2H36T21C	M2H36T21C	—	M2H36T25C
32.15	Output RPM	54	107	54	107	—	107
	Class I catalog Hp	9.8	16.6	9.8	16.6	—	16.6
	Class I torque in-lbs	10459	8920	10459	8920	—	8920
	Part number	M2H32T18C	M2H32T18C	M2H32T21C	M2H32T21C	—	M2H32T25C
29.64	Output RPM	59	116	59	116	—	116
	Class I catalog Hp	10.5	17.6	10.5	17.6	—	17.6
	Class I torque in-lbs	10300	8699	10300	8699	—	8699
	Part number	M2H30T18C	M2H30T18C	M2H30T21C	M2H30T21C	—	M2H30T25C
24.87	Output RPM	70	139	70	139	—	139
	Class I catalog Hp	12.1	19.8	12.1	19.8	—	19.8
	Class I torque in-lbs	9961	8170	9961	8170	—	8170
	Part number	M2H25T18C	M2H25T18C	M2H25T21C	M2H25T21C	—	M2H25T25C
21.22	Output RPM	82	163	82	163	—	163
	Class I catalog Hp	13.7	22.4	13.7	22.4	—	22.4
	Class I torque in-lbs	9594	7900	9594	7900	—	7900
	Part number	M2H21T18C	M2H21T18C	M2H21T21C	M2H21T21C	—	M2H21T25C
17.68	Output RPM	99	195	99	195	99	195
	Class I catalog Hp	15.7	25.6	15.7	25.6	15.7	25.6
	Class I torque in-lbs	9100	7540	9100	7540	9100	7540
	Part number	M2H18T18C	M2H18T18C	M2H18T21C	M2H18T21C	M2H18T25C	M2H18T25C
14.65	Output RPM	119	235	119	235	119	235
	Class I catalog Hp	15.7	25.6	15.7	25.6	15.7	25.6
	Class I torque in-lbs	7540	6236	7540	6236	7540	6236
	Part number	M2H15T18C	M2H15T18C	M2H15T21C	M2H15T21C	M2H15T25C	M2H15T25C

This page lists all 'possible' part numbers. Part numbers with service factor higher than 2.0 may not be loaded in the system.
Call Dodge for price availability. For reducer dimensions and accessories, see pages G1-48 through G1-73.

Engineering Selections

MTA3 horsepower and torque ratings

MTA3203

Ratio	Mtr speed	NEMA 180TC		NEMA 210TC		NEMA 250TC		NEMA 280TC / 280TSC	
		1750	3450	1750	3450	1750	3450	1750	3450
76.02	Output RPM	23	45	—	45	—	45	—	—
	Class I catalog Hp	7.1	13.0	—	13.0	—	—	—	—
	Class I torque in-lbs	17020	16463	—	—	—	—	—	—
	Part number	M3H76T18C	M3H76T18C	—	M3H76T21C	—	—	—	—
70.30	Output RPM	25	49	—	49	—	49	—	—
	Class I catalog Hp	7.4	14.1	—	14.1	—	—	—	—
	Class I torque in-lbs	17020	16311	—	16311	—	—	—	—
	Part number	M3H70T18C	M3H70T18C	—	M3H70T21C	—	—	—	—
65.26	Output RPM	27	53	27	53	—	53	—	—
	Class I catalog Hp	7.8	14.8	7.8	14.8	—	—	—	—
	Class I torque in-lbs	17020	16146	17020	16146	—	—	—	—
	Part number	M3H65T18C	M3H65T18C	M3H65T21C	M3H65T21C	—	—	—	—
57.58	Output RPM	30	60	30	60	—	60	—	—
	Class I catalog Hp	9.0	16.4	9.0	16.4	—	16.4	—	—
	Class I torque in-lbs	17020	15778	17020	15778	—	15778	—	—
	Part number	M3H58T18C	M3H58T18C	M3H58T21C	M3H58T21C	—	M3H58T25C	—	—
50.68	Output RPM	35	68	35	68	—	68	—	—
	Class I catalog Hp	10.1	17.7	10.1	17.7	—	17.7	—	—
	Class I torque in-lbs	16940	15444	16940	15444	—	15444	—	—
	Part number	M3H51T18C	M3H51T18C	M3H51T21C	M3H51T21C	—	M3H51T25C	—	—
46.87	Output RPM	37	74	37	74	—	74	—	—
	Class I catalog Hp	10.9	19.5	10.9	19.5	—	19.5	—	—
	Class I torque in-lbs	16876	15222	16876	15222	—	15222	—	—
	Part number	M3H47T18C	M3H47T18C	M3H47T21C	M3H47T21C	—	M3H47T25C	—	—
43.51	Output RPM	40	79	40	79	—	79	—	—
	Class I catalog Hp	11.9	20.7	11.9	20.7	—	20.7	—	—
	Class I torque in-lbs	16849	15024	16849	15024	—	15024	—	—
	Part number	M3H44T18C	M3H44T18C	M3H44T21C	M3H44T21C	—	M3H44T25C	—	—
38.39	Output RPM	46	90	46	90	—	90	—	—
	Class I catalog Hp	13.1	23.1	13.1	23.1	—	23.1	—	—
	Class I torque in-lbs	16463	14720	16463	14720	—	14720	—	—
	Part number	M3H38T18C	M3H38T18C	M3H38T21C	M3H38T21C	—	M3H38T25C	—	—
35.44	Output RPM	49	97	49	97	—	97	—	—
	Class I catalog Hp	14.2	24.6	14.2	24.6	—	24.6	—	—
	Class I torque in-lbs	16258	14499	16258	14499	—	14499	—	—
	Part number	M3H35T18C	M3H35T18C	M3H35T21C	M3H35T21C	—	M3H35T25C	—	—
31.75	Output RPM	55	109	55	109	55	109	—	109
	Class I catalog Hp	15.3	26.8	15.3	26.8	15.3	26.8	—	26.8
	Class I torque in-lbs	15999	14249	15999	14249	15999	14249	—	14249
	Part number	M3H32T18C	M3H32T18C	M3H32T21C	M3H32T21C	M3H32T25C	M3H32T25C	—	M3H32T28TSC
29.28	Output RPM	60	118	60	118	60	118	—	118
	Class I catalog Hp	16.4	28.7	16.4	28.7	16.4	28.7	—	28.7
	Class I torque in-lbs	15778	14022	15778	14022	15778	14022	—	14022
	Part number	M3H29T18C	M3H29T18C	M3H29T21C	M3H29T21C	M3H29T25C	M3H29T25C	—	M3H29T28TSC
24.57	Output RPM	71	140	71	140	71	140	—	140
	Class I catalog Hp	18.9	32.8	18.9	32.8	18.9	32.8	—	32.8
	Class I torque in-lbs	15322	13412	15322	13412	15322	13412	—	13412
	Part number	M3H25T18C	M3H25T18C	M3H25T21C	M3H25T21C	M3H25T25C	M3H25T25C	—	M3H25T28TSC
20.96	Output RPM	83	165	83	165	83	165	—	165
	Class I catalog Hp	21.6	36.7	21.6	36.7	21.6	36.7	—	36.7
	Class I torque in-lbs	14894	12805	14894	12805	14894	12805	—	12805
	Part number	M3H21T18C	M3H21T18C	M3H21T21C	M3H21T21C	M3H21T25C	M3H21T25C	—	M3H21T28TSC
17.46	Output RPM	100	198	100	198	100	198	—	198
	Class I catalog Hp	25.2	41.1	25.2	41.1	25.2	41.1	—	41.1
	Class I torque in-lbs	14450	11933	14450	11933	14450	11933	—	11933
	Part number	M3H17T18C	M3H17T18C	M3H17T21C	M3H17T21C	M3H17T25C	M3H17T25C	—	M3H17T28TSC
14.47	Output RPM	121	238	121	238	121	238	121	238
	Class I catalog Hp	25.2	41.1	25.2	41.1	25.2	41.1	25.2	41.1
	Class I torque in-lbs	11952	9888	11952	9888	11952	9888	11952	9888
	Part number	M3H14T18C	M3H14T18C	M3H14T21C	M3H14T21C	M3H14T25C	M3H14T25C	M3H14T28C	M3H14T28TSC

This page lists all 'possible' part numbers. Part numbers with service factor higher than 2.0 may not be loaded in the system.
Call Dodge for price availability. For reducer dimensions and accessories, see pages G1-48 through G1-73.

Engineering Selections

MTA4 horsepower and torque ratings

MTA4207							
Ratio	Mtr speed	NEMA 180TC		NEMA 210TC		NEMA 250TC	
		1750	3450	1750	3450	1750	3450
73.57	Output RPM	24	47	24	47	—	47
	Class I catalog Hp	11.5	20.3	11.5	20.3	—	20.3
	Class I torque in-lbs	27555	25341	27555	25341	—	25341
	Part number	M4H74T18C	M4H74T18C	M4H74T21C	M4H74T21C	—	M4H74T25C
66.17	Output RPM	26	52	26	52	—	52
	Class I catalog Hp	12.4	22.5	12.4	22.5	—	22.5
	Class I torque in-lbs	27307	24907	27307	24907	—	24907
	Part number	M4H66T18C	M4H66T18C	M4H66T21C	M4H66T21C	—	M4H66T25C
61.04	Output RPM	29	57	29	57	—	57
	Class I catalog Hp	13.2	24.0	13.2	24.0	—	24.0
	Class I torque in-lbs	27095	24635	27095	24635	—	24635
	Part number	M4H61T18C	M4H61T18C	M4H61T21C	M4H61T21C	—	M4H61T25C
51.72	Output RPM	34	67	34	67	34	67
	Class I catalog Hp	15.6	27.6	15.6	27.6	15.6	27.6
	Class I torque in-lbs	26421	24049	26421	24049	26421	24049
	Part number	M4H52T18C	M4H52T18C	M4H52T21C	M4H52T21C	M4H52T25C	M4H52T25C
49.04	Output RPM	36	70	36	70	36	70
	Class I catalog Hp	16.4	29.0	16.4	29.0	16.4	29.0
	Class I torque in-lbs	26217	23849	26217	23849	26217	23849
	Part number	M4H49T18C	M4H49T18C	M4H49T21C	M4H49T21C	M4H49T25C	M4H49T25C
44.11	Output RPM	40	78	40	78	40	78
	Class I catalog Hp	18.0	31.8	18.0	31.8	18.0	31.8
	Class I torque in-lbs	25870	23460	25870	23460	25870	23460
	Part number	M4H44T18C	M4H44T18C	M4H44T21C	M4H44T21C	M4H44T25C	M4H44T25C
40.70	Output RPM	43	85	43	85	43	85
	Class I catalog Hp	19.0	33.9	19.0	33.9	19.0	33.9
	Class I torque in-lbs	25600	23198	25600	23198	25600	23198
	Part number	M4H41T18C	M4H41T18C	M4H41T21C	M4H41T21C	M4H41T25C	M4H41T25C
34.48	Output RPM	51	100	51	100	51	100
	Class I catalog Hp	21.8	39.3	21.8	39.3	21.8	39.3
	Class I torque in-lbs	25059	22592	25059	22592	25059	22592
	Part number	M4H34T18C	M4H34T18C	M4H34T21C	M4H34T21C	M4H34T25C	M4H34T25C
30.05	Output RPM	58	115	58	115	58	115
	Class I catalog Hp	24.7	42.8	24.7	42.8	24.7	42.8
	Class I torque in-lbs	24514	21577	24514	21577	24514	21577
	Part number	M4H30T18C	M4H30T18C	M4H30T21C	M4H30T21C	M4H30T25C	M4H30T25C
25.57	Output RPM	68	135	68	135	68	135
	Class I catalog Hp	28.3	47.4	28.3	47.4	28.3	47.4
	Class I torque in-lbs	23946	20336	23946	20336	23946	20336
	Part number	M4H26T18C	M4H26T18C	M4H26T21C	M4H26T21C	M4H26T25C	M4H26T25C
21.82	Output RPM	80	158	80	158	80	158
	Class I catalog Hp	32.5	52.9	32.5	52.9	32.5	52.9
	Class I torque in-lbs	23375	19268	23375	19268	23375	19268
	Part number	M4H22T18C	M4H22T18C	M4H22T21C	M4H22T21C	M4H22T25C	M4H22T25C
17.89	Output RPM	98	193	98	193	98	193
	Class I catalog Hp	38.6	59.3	38.6	59.3	38.6	59.3
	Class I torque in-lbs	22660	17747	22660	17747	22660	17747
	Part number	M4H18T18C	M4H18T18C	M4H18T21C	M4H18T21C	M4H18T25C	M4H18T25C
14.35	Output RPM	122	—	122	—	122	—
	Class I catalog Hp	38.6	—	38.6	—	38.6	—
	Class I torque in-lbs	18152	—	18152	—	18152	—
	Part number	M4H14T18C	—	M4H14T21C	—	M4H14T25C	—

This page lists all 'possible' part numbers. Part numbers with service factor higher than 2.0 may not be loaded in the system.
Call Dodge for price availability. For reducer dimensions and accessories, see pages G1-42 through G1-67.

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Engineering Selections

MTA4 horsepower and torque ratings

MTA4207					
Ratio	Mtr speed	NEMA 280TC / 280TSC		NEMA 320TSC	
		1750	3450	1750	3450
73.57	Output RPM	—	47	—	47
	Class I catalog Hp	—	—	—	—
	Class I torque in-lbs	—	—	—	—
	Part number	—	—	—	—
66.17	Output RPM	—	52	—	52
	Class I catalog Hp	—	—	—	—
	Class I torque in-lbs	—	—	—	—
	Part number	—	—	—	—
61.04	Output RPM	—	57	—	57
	Class I catalog Hp	—	—	—	—
	Class I torque in-lbs	—	—	—	—
	Part number	—	—	—	—
51.72	Output RPM	—	67	—	67
	Class I catalog Hp	—	27.6	—	—
	Class I torque in-lbs	—	24049	—	—
	Part number	—	M4H52T28TSC	—	—
49.04	Output RPM	—	70	—	70
	Class I catalog Hp	—	29.0	—	—
	Class I torque in-lbs	—	23849	—	—
	Part number	—	M4H49T28TSC	—	—
44.11	Output RPM	—	78	—	78
	Class I catalog Hp	—	31.8	—	—
	Class I torque in-lbs	—	23460	—	—
	Part number	—	M4H44T28TSC	—	—
40.70	Output RPM	—	85	—	85
	Class I catalog Hp	—	33.9	—	—
	Class I torque in-lbs	—	23198	—	—
	Part number	—	M4H41T28TSC	—	—
34.48	Output RPM	—	100	—	100
	Class I catalog Hp	—	39.3	—	39.3
	Class I torque in-lbs	—	22592	—	22592
	Part number	—	M4H34T28TSC	—	M4H34T32TSC
30.05	Output RPM	—	115	—	115
	Class I catalog Hp	—	42.8	—	42.8
	Class I torque in-lbs	—	21577	—	21577
	Part number	—	M4H30T28TSC	—	M4H30T32TSC
25.57	Output RPM	68	135	—	135
	Class I catalog Hp	28.3	47.4	—	47.4
	Class I torque in-lbs	23946	20336	—	20336
	Part number	M4H26T28C	M4H26T28TSC	—	M4H26T32TSC
21.82	Output RPM	80	158	—	158
	Class I catalog Hp	32.5	52.9	—	52.9
	Class I torque in-lbs	23375	19268	—	19268
	Part number	M4H22T28C	M4H22T28TSC	—	M4H22T32TSC
17.89	Output RPM	98	193	—	193
	Class I catalog Hp	38.6	59.3	—	59.3
	Class I torque in-lbs	22660	17747	—	17747
	Part number	M4H18T28C	M4H18T28TSC	—	M4H18T32TSC
14.35	Output RPM	122	—	—	—
	Class I catalog Hp	38.6	—	—	—
	Class I torque in-lbs	18152	—	—	—
	Part number	M4H14T28C	—	—	—

This page lists all 'possible' part numbers. Part numbers with service factor higher than 2.0 may not be loaded in the system.
 Call Dodge for price availability. For reducer dimensions and accessories, see pages G1-48 through G1-73.

Engineering Selections

MTA5 horsepower and torque ratings

MTA6307

Ratio	Mtr speed	NEMA 180TC		NEMA 210TC		NEMA 250TC	
		1750	3450	1750	3450	1750	3450
71.98	Output RPM	24	48	24	48	24	48
	Class I catalog Hp	19.2	35.8	19.2	35.8	19.2	35.8
	Class I torque in-lbs	45078	43120	45078	43120	45078	43120
	Part number	M5H72T18C	M5H72T18C	M5H72T21C	M5H72T21C	M5H72T25C	M5H72T25C
64.74	Output RPM	27	53	27	53	27	53
	Class I catalog Hp	20.8	39.5	20.8	39.5	20.8	39.5
	Class I torque in-lbs	44903	42605	44903	42605	44903	42605
	Part number	M5H65T18C	M5H65T18C	M5H65T21C	M5H65T21C	M5H65T25C	M5H65T25C
59.73	Output RPM	29	58	29	58	29	58
	Class I catalog Hp	23.0	42.9	23.0	42.9	23.0	42.9
	Class I torque in-lbs	44821	42323	44821	42323	44821	42323
	Part number	M5H60T18C	M5H60T18C	M5H60T21C	M5H60T21C	M5H60T25C	M5H60T25C
50.61	Output RPM	35	68	35	68	35	68
	Class I catalog Hp	26.7	49.7	26.7	49.7	26.7	49.7
	Class I torque in-lbs	44206	41713	44206	41713	44206	41713
	Part number	M5H51T18C	M5H51T18C	M5H51T21C	M5H51T21C	M5H51T25C	M5H51T25C
47.99	Output RPM	36	72	36	72	36	72
	Class I catalog Hp	28.2	51.8	28.2	51.8	28.2	51.8
	Class I torque in-lbs	44012	41491	44012	41491	44012	41491
	Part number	M5H48T18C	M5H48T18C	M5H48T21C	M5H48T21C	M5H48T25C	M5H48T25C
43.16	Output RPM	41	80	41	80	41	80
	Class I catalog Hp	31.1	57.1	31.1	57.1	31.1	57.1
	Class I torque in-lbs	43712	41080	43712	41080	43712	41080
	Part number	M5H43T18C	M5H43T18C	M5H43T21C	M5H43T21C	M5H43T25C	M5H43T25C
39.82	Output RPM	44	87	44	87	44	87
	Class I catalog Hp	32.9	60.1	32.9	60.1	32.9	60.1
	Class I torque in-lbs	43340	39450	43340	39450	43340	39450
	Part number	M5H40T18C	M5H40T18C	M5H40T21C	M5H40T21C	M5H40T25C	M5H40T25C
33.74	Output RPM	52	102	52	102	52	102
	Class I catalog Hp	38.8	65.7	38.8	65.7	38.8	65.7
	Class I torque in-lbs	42734	36628	42734	36628	42734	36628
	Part number	M5H34T18C	M5H34T18C	M5H34T21C	M5H34T21C	M5H34T25C	M5H34T25C
29.41	Output RPM	60	117	60	117	60	117
	Class I catalog Hp	43.6	70.9	43.6	70.9	43.6	70.9
	Class I torque in-lbs	42205	34306	42205	34306	42205	34306
	Part number	M5H29T18C	M5H29T18C	M5H29T21C	M5H29T21C	M5H29T25C	M5H29T25C
25.05	Output RPM	70	138	70	138	70	138
	Class I catalog Hp	50.4	77.6	50.4	77.6	50.4	77.6
	Class I torque in-lbs	41608	32014	41608	32014	41608	32014
	Part number	M5H25T18C	M5H25T18C	M5H25T21C	M5H25T21C	M5H25T25C	M5H25T25C
21.35	Output RPM	82	162	82	162	82	162
	Class I catalog Hp	58.4	81.2	58.4	81.2	58.4	81.2
	Class I torque in-lbs	40566	28448	40566	28448	40566	28448
	Part number	M5H21T18C	M5H21T18C	M5H21T21C	M5H21T21C	M5H21T25C	M5H21T25C
17.50	Output RPM	100	197	100	197	100	197
	Class I catalog Hp	65.0	85.3	65.0	85.3	65.0	85.3
	Class I torque in-lbs	36974	24363	36974	24363	36974	24363
	Part number	M5H18T18C	M5H18T18C	M5H18T21C	M5H18T21C	M5H18T25C	M5H18T25C
14.04	Output RPM	125	—	125	—	125	—
	Class I catalog Hp	65	—	65	—	65	—
	Class I torque in-lbs	29572	—	29572	—	29572	—
	Part number	M5H14T18C	—	M5H14T21C	—	M5H14T25C	—

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Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Engineering Selections

MTA5 horsepower and torque ratings

MTA5215

Ratio	Mtr speed	NEMA 280TC / 280TSC		NEMA 320TC / 320TSC		NEMA 360TC / 360TSC	
		1750	3450	1750	3450	1750	3450
71.98	Output RPM	–	48	–	–	–	–
	Class I catalog Hp	–	35.8	–	–	–	–
	Class I torque in-lbs	–	43120	–	–	–	–
	Part number	–	M5H72T28TSC	–	–	–	–
64.74	Output RPM	–	53	–	–	–	–
	Class I catalog Hp	–	39.5	–	–	–	–
	Class I torque in-lbs	–	42605	–	–	–	–
	Part number	–	M5H65T28TSC	–	–	–	–
59.73	Output RPM	–	58	–	58	–	–
	Class I catalog Hp	–	42.9	–	42.9	–	–
	Class I torque in-lbs	–	42323	–	42323	–	–
	Part number	–	M5H60T28TSC	–	M5H60T32TSC	–	–
50.61	Output RPM	35	68	–	68	–	–
	Class I catalog Hp	26.7	49.7	–	49.7	–	–
	Class I torque in-lbs	44206	41713	–	41713	–	–
	Part number	M5H51T28C	M5H51T28TSC	–	M5H51T32TSC	–	–
47.99	Output RPM	36	72	–	72	–	–
	Class I catalog Hp	28.2	51.8	–	51.8	–	–
	Class I torque in-lbs	44012	41491	–	41491	–	–
	Part number	M5H48T28C	M5H48T28TSC	–	M5H48T32TSC	–	–
43.16	Output RPM	41	80	–	80	–	–
	Class I catalog Hp	31.1	57.1	–	57.1	–	–
	Class I torque in-lbs	43712	41080	–	41080	–	–
	Part number	M5H43T28C	M5H43T28TSC	–	M5H43T32TSC	–	–
39.82	Output RPM	44	87	–	87	–	87
	Class I catalog Hp	32.9	60.1	–	60.1	–	60.1
	Class I torque in-lbs	43340	39450	–	39450	–	39450
	Part number	M5H40T28C	M5H40T28TSC0	–	M5H40T32TSC	–	M5H40T36TSC
33.74	Output RPM	52	102	–	102	–	102
	Class I catalog Hp	38.8	65.7	–	65.7	–	65.7
	Class I torque in-lbs	42734	36628	–	36628	–	36628
	Part number	M5H34T28C	M5H34T28TSC	–	M5H34T32TSC	–	M5H29T36TSC
29.41	Output RPM	60	117	60	117	–	117
	Class I catalog Hp	43.6	70.9	43.6	70.9	–	70.9
	Class I torque in-lbs	42205	34306	42205	34306	–	34306
	Part number	M5H29T28C	M5H29T28TSC	M5H29T32C	M5H29T32TSC	–	M5H29T36TSC
25.05	Output RPM	70	138	70	138	–	138
	Class I catalog Hp	50.4	77.6	50.4	77.6	–	77.6
	Class I torque in-lbs	41608	32014	41608	32014	–	32014
	Part number	M5H25T28C	M5H25T28TSC	M5H25T32C	M5H25T32TSC	–	M5H25T36TSC
21.35	Output RPM	82	162	82	162	–	162
	Class I catalog Hp	58.4	81.2	58.4	81.2	–	81.2
	Class I torque in-lbs	40566	28448	40566	28448	–	28448
	Part number	M5H21T28C	M5H21T28TSC	M5H21T32C	M5H21T32TSC	–	M5H21T36TSC
17.50	Output RPM	100	197	100	197	100	197
	Class I catalog Hp	65.0	85.3	65.0	85.3	65.0	85.3
	Class I torque in-lbs	36974	24363	36974	24363	36974	24363
	Part number	M5H18T28C	M5H18T28TSC	M5H18T32C	M5H18T32TSC	M5H18T36C	M5H18T36TSC
14.04	Output RPM	125	–	125	–	125	–
	Class I catalog Hp	65	–	65	–	65	–
	Class I torque in-lbs	29572	–	29572	–	29572	–
	Part number	M5H14T28C	–	M5H14T32C	–	M5H14T36C	–

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Engineering Selections

MTA6 horsepower and torque ratings

MTA6307

Ratio	Mtr speed	NEMA 210TC		NEMA 250TC		NEMA 280TC / 280TSC	
		1750	3450	1750	3450	1750	3450
78.53	Output RPM	22	44	22	44	—	44
	Class I catalog Hp	23.6	44.7	23.6	44.7	—	44.7
	Class I torque in-lbs	61675	58420	61675	58420	—	58420
	Part number	M6H79T21C	M6H79T21C	M6H79T25C	M6H79T25C	—	M6H79T28TSC
66.92	Output RPM	26	52	26	52	26	52
	Class I catalog Hp	27.5	52.1	27.5	52.1	27.5	52.1
	Class I torque in-lbs	60887	57598	60887	57598	60887	57598
	Part number	M6H67T21C	M6H67T21C	M6H67T25C	M6H67T25C	M6H67T28C	M6H67T28TSC
59.05	Output RPM	30	58	30	58	30	58
	Class I catalog Hp	31.5	57.5	31.5	57.5	31.5	57.5
	Class I torque in-lbs	60309	57038	60309	57038	60309	57038
	Part number	M6H59T21C	M6H59T21C	M6H59T25C	M6H59T25C	M6H59T28C	M6H59T28TSC
52.35	Output RPM	33	66	33	66	33	66
	Class I catalog Hp	34.3	64.7	34.3	64.7	34.3	64.7
	Class I torque in-lbs	59800	56359	59800	56359	59800	56359
	Part number	M6H52T21C	M6H52T21C	M6H52T25C	M6H52T25C	M6H52T28C	M6H52T28TSC
50.26	Output RPM	35	69	35	69	35	69
	Class I catalog Hp	36.2	67.3	36.2	67.3	36.2	67.3
	Class I torque in-lbs	59500	56100	59500	56100	59500	56100
	Part number	M6H50T21C	M6H50T21C	M6H50T25C	M6H50T25C	M6H50T28C	M6H50T28TSC
44.61	Output RPM	39	77	39	77	39	77
	Class I catalog Hp	39.8	74.4	39.8	74.4	39.8	74.4
	Class I torque in-lbs	59050	55500	59050	55500	59050	55500
	Part number	M6H45T21C	M6H45T21C	M6H45T25C	M6H45T25C	M6H45T28C	M6H45T28TSC
39.37	Output RPM	44	88	44	88	44	88
	Class I catalog Hp	44.7	83.0	44.7	83.0	44.7	83.0
	Class I torque in-lbs	58420	54219	58420	54219	58420	54219
	Part number	M6H39T21C	M6H39T21C	M6H39T25C	M6H39T25C	M6H39T28C	M6H39T28TSC
33.51	Output RPM	52	103	52	103	52	103
	Class I catalog Hp	52.1	94.2	52.1	94.2	52.1	94.2
	Class I torque in-lbs	57598	52600	57598	52600	57598	52600
	Part number	M6H34T21C	M6H34T21C	M6H34T25C	M6H34T25C	M6H34T28C	M6H34T28TSC
29.03	Output RPM	60	119	60	119	60	119
	Class I catalog Hp	59.4	106.0	59.4	106.0	59.4	106.0
	Class I torque in-lbs	56877	51200	56877	51200	56877	51200
	Part number	M6H29T21C	M6H29T21C	M6H29T25C	M6H29T25C	M6H29T28C	M6H29T28TSC
24.43	Output RPM	72	141	72	141	72	141
	Class I catalog Hp	69.8	119.8	69.8	119.8	69.8	119.8
	Class I torque in-lbs	55995	48900	55995	48900	55995	48900
	Part number	M6H24T21C	M6H24T21C	M6H24T25C	M6H24T25C	M6H24T28C	M6H24T28TSC
22.04	Output RPM	79	157	79	157	79	157
	Class I catalog Hp	76.0	129.0	76.0	129.0	76.0	129.0
	Class I torque in-lbs	55400	47290	55400	47290	55400	47290
	Part number	M6H22T21C	M6H22T21C	M6H22T25C	M6H22T25C	M6H22T28C	M6H22T28TSC
18.95	Output RPM	92	—	92	—	92	—
	Class I catalog Hp	86.0	—	86.0	—	86.0	—
	Class I torque in-lbs	53743	—	53743	—	53743	—
	Part number	M6H19T21C	—	M6H19T25C	—	M6H19T28C	—
14.24	Output RPM	123	—	123	—	123	—
	Class I catalog Hp	86	—	86	—	86	—
	Class I torque in-lbs	40141	—	40141	—	40141	—
	Part number	M6H14T21C	—	M6H14T25C	—	M6H14T28C	—

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Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Engineering Selections

MTA6 horsepower and torque ratings

MTA6307

Ratio	Mtr speed	NEMA 320TC / 320TSC		NEMA 360TC / 360TSC	
		1750	3450	1750	3450
78.53	Output RPM	—	44	—	—
	Class I catalog Hp	—	44.7	—	—
	Class I torque in-lbs	—	58420	—	—
	Part number	—	M6H79T32TSC	—	—
66.92	Output RPM	—	52	—	—
	Class I catalog Hp	—	52.1	—	—
	Class I torque in-lbs	—	57598	—	—
	Part number	—	M6H67T32TSC	—	—
59.05	Output RPM	—	58	—	—
	Class I catalog Hp	—	57.5	—	—
	Class I torque in-lbs	—	57038	—	—
	Part number	—	M6H59T32TSC	—	—
52.35	Output RPM	—	66	—	66
	Class I catalog Hp	—	64.7	—	64.7
	Class I torque in-lbs	—	56359	—	56359
	Part number	—	M6H52T32TSC	—	M6H52T36TSC
50.26	Output RPM	—	69	—	69
	Class I catalog Hp	—	67.3	—	67.3
	Class I torque in-lbs	—	56100	—	56100
	Part number	—	M6H50T32TSC	—	M6H50T36TSC
44.61	Output RPM	—	77	—	77
	Class I catalog Hp	—	74.4	—	74.4
	Class I torque in-lbs	—	55500	—	55500
	Part number	—	M6H45T32TSC	—	M6H45T36TSC
39.37	Output RPM	44	88	—	88
	Class I catalog Hp	44.7	83.0	—	83.0
	Class I torque in-lbs	58420	54219	—	54219
	Part number	M6H39T32C	M6H39T32TSC	—	M6H39T36TSC
33.51	Output RPM	52	103	—	103
	Class I catalog Hp	52.1	94.2	—	94.2
	Class I torque in-lbs	57598	52600	—	52600
	Part number	M6H34T32C	M6H34T32TSC	—	M6H34T36TSC
29.03	Output RPM	60	119	—	119
	Class I catalog Hp	59.4	106.0	—	106.0
	Class I torque in-lbs	56877	51200	—	51200
	Part number	M6H29T32C	M6H29T32TSC	—	M6H29T36TSC
24.43	Output RPM	72	141	72	141
	Class I catalog Hp	69.8	119.8	69.8	119.8
	Class I torque in-lbs	55995	48900	55995	48900
	Part number	M6H24T32C	M6H24T32TSC	M6H24T36C	M6H24T36TSC
22.04	Output RPM	79	157	79	157
	Class I catalog Hp	76.0	129.0	76.0	129.0
	Class I torque in-lbs	55400	47290	55400	47290
	Part number	M6H22T32C	M6H22T32TSC	M6H22T36C	M6H22T36TSC
18.95	Output RPM	92	—	92	—
	Class I catalog Hp	86.0	—	86.0	—
	Class I torque in-lbs	53743	—	53743	—
	Part number	M6H19T32C	—	M6H19T36C	—
14.24	Output RPM	123	—	123	—
	Class I catalog Hp	86	—	86	—
	Class I torque in-lbs	40141	—	40141	—
	Part number	M6H14T32C	—	M6H14T36C	—

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Engineering Selections

MTA7 horsepower and torque ratings

MTA7315

Ratio	Mtr speed	NEMA 210TC		NEMA 250TC		NEMA 280TC / 280TSC	
		1750	3450	1750	3450	1750	3450
76.46	Output RPM	23	45	23	45	23	45
	Class I catalog Hp	36.7	69.6	36.7	69.6	36.7	69.6
	Class I torque in-lbs	92264	87200	92264	87200	92264	87200
	Part number	M7H76T21C	M7H76T21C	M7H76T25C	M7H76T25C	M7H76T28C	M7H76T28TSC
66.57	Output RPM	26	52	26	52	26	52
	Class I catalog Hp	41.7	78.1	41.7	78.1	41.7	78.1
	Class I torque in-lbs	91073	86100	91073	86100	91073	86100
	Part number	M7H67T21C	M7H67T21C	M7H67T25C	M7H67T25C	M7H67T28C	M7H67T28TSC
57.58	Output RPM	30	60	30	60	30	60
	Class I catalog Hp	47.3	88.7	47.3	88.7	47.3	88.7
	Class I torque in-lbs	90199	85010	90199	85010	90199	85010
	Part number	M7H58T21C	M7H58T21C	M7H58T25C	M7H58T25C	M7H58T28C	M7H58T28TSC
50.97	Output RPM	34	68	34	68	34	68
	Class I catalog Hp	53.8	98.7	53.8	98.7	53.8	98.7
	Class I torque in-lbs	89216	84004	89216	84004	89216	84004
	Part number	M7H51T21C	M7H51T21C	M7H51T25C	M7H51T25C	M7H51T28C	M7H51T28TSC
44.38	Output RPM	39	78	39	78	39	78
	Class I catalog Hp	60.9	111.6	60.9	111.6	60.9	111.6
	Class I torque in-lbs	88110	82999	88110	82999	88110	82999
	Part number	M7H44T21C	M7H44T21C	M7H44T25C	M7H44T25C	M7H44T28C	M7H44T28TSC
38.39	Output RPM	46	90	46	90	46	90
	Class I catalog Hp	69.0	127.6	69.0	127.6	69.0	127.6
	Class I torque in-lbs	87012	81445	87012	81445	87012	81445
	Part number	M7H38T21C	M7H38T21C	M7H38T25C	M7H38T25C	M7H38T28C	M7H38T28TSC
33.48	Output RPM	52	103	52	103	52	103
	Class I catalog Hp	77.9	142.1	77.9	142.1	77.9	142.1
	Class I torque in-lbs	85900	78264	85900	78264	85900	78264
	Part number	M7H33T21C	M7H33T21C	M7H33T25C	M7H33T25C	M7H33T28C	M7H33T28TSC
28.65	Output RPM	61	120	61	120	61	120
	Class I catalog Hp	90.1	162.1	90.1	162.1	90.1	162.1
	Class I torque in-lbs	84900	75233	84900	75233	84900	75233
	Part number	M7H29T21C	M7H29T21C	M7H29T25C	M7H29T25C	M7H26T29C	M7H26T29TSC
25.66	Output RPM	68	134	68	134	68	134
	Class I catalog Hp	98.9	177.0	98.9	177.0	98.9	177.0
	Class I torque in-lbs	83900	72653	83900	72653	83900	72653
	Part number	M7H26T21C	M7H26T21C	M7H26T25C	M7H26T25C	M7H26T28C	M7H26T28TSC
21.74	Output RPM	80	—	80	—	80	—
	Class I catalog Hp	114.7	—	114.7	—	114.7	—
	Class I torque in-lbs	82705	—	82705	—	82705	—
	Part number	M7H22T21C	—	M7H22T25C	—	M7H22T28C	—
18.77	Output RPM	93	—	93	—	93	—
	Class I catalog Hp	129.4	—	129.4	—	129.4	—
	Class I torque in-lbs	80425	—	80425	—	80425	—
	Part number	M7H19T21C	—	M7H19T25C	—	M7H19T28C	—
14.11	Output RPM	124	—	124	—	124	—
	Class I catalog Hp	129.4	—	129.4	—	129.4	—
	Class I torque in-lbs	60154	—	60154	—	60154	—
	Part number	M7H14T21C	—	M7H14T25C	—	M7H14T28C	—

This page lists all 'possible' part numbers. Part numbers with service factor higher than 2.0 may not be loaded in the system. Call Dodge for price availability. For reducer dimensions and accessories, see pages G1-48 through G1-73.

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Engineering Selections

MTA7 horsepower and torque ratings

MTA7315

Ratio	Mtr speed	NEMA 320TC / 320TSC		NEMA 360TC / 360TSC		NEMA 405TC / 405TSC	
		1750	3450	1750	3450	1750	3450
76.46	Output RPM	—	45	—	45	—	—
	Class I catalog Hp	—	69.6	—	69.6	—	—
	Class I torque in-lbs	—	87200	—	87200	—	—
	Part number	—	M7H76T32TSC	—	M7H76T36TSC	—	—
66.57	Output RPM	26	52	—	52	—	—
	Class I catalog Hp	41.7	78.1	—	78.1	—	—
	Class I torque in-lbs	91073	86100	—	86100	—	—
	Part number	M7H67T32C	M7H67T32TSC	—	M7H67T36TSC	—	—
57.58	Output RPM	30	60	—	60	—	—
	Class I catalog Hp	47.3	88.7	—	88.7	—	—
	Class I torque in-lbs	90199	85010	—	85010	—	—
	Part number	M7H58T32C	M7H58T32TSC	—	M7H58T36TSC	—	—
50.97	Output RPM	34	68	—	68	—	—
	Class I catalog Hp	53.8	98.7	—	98.7	—	—
	Class I torque in-lbs	89216	84004	—	84004	—	—
	Part number	M7H51T32C	M7H51T32TSC	—	M7H51T36TSC	—	—
44.38	Output RPM	39	78	39	78	—	78
	Class I catalog Hp	60.9	111.6	60.9	111.6	—	111.6
	Class I torque in-lbs	88110	82999	88110	82999	—	82999
	Part number	M7H44T32C	M7H44T32TSC	M7H44T36C	M7H44T36TSC	—	M7H44T405TSC
38.39	Output RPM	46	90	46	90	—	90
	Class I catalog Hp	69.0	127.6	69.0	127.6	—	127.6
	Class I torque in-lbs	87012	81445	87012	81445	—	81445
	Part number	M7H38T32C	M7H38T32TSC	M7H38T36C	M7H38T36TSC	—	M7H38T405TSC
33.48	Output RPM	52	103	52	103	—	103
	Class I catalog Hp	77.9	142.1	77.9	142.1	—	142.1
	Class I torque in-lbs	85900	78264	85900	78264	—	78264
	Part number	M7H33T32C	M7H33T32TSC	M7H33T36C	M7H33T36TSC	—	M7H33T405TSC
28.65	Output RPM	61	120	61	120	—	120
	Class I catalog Hp	90.1	162.1	90.1	162.1	—	162.1
	Class I torque in-lbs	84900	75233	84900	75233	—	75233
	Part number	M7H29T32C	M7H29T32TSC	M7H29T36C	M7H29T36TSC	—	M7H29T405TSC
25.66	Output RPM	68	134	68	134	—	134
	Class I catalog Hp	98.9	177.0	98.9	177.0	—	177.0
	Class I torque in-lbs	83900	72653	83900	72653	—	72653
	Part number	M7H26T32C	M7H26T32TSC	M7H26T36C	M7H26T36TSC	—	M7H26T405TSC
21.74	Output RPM	80	—	80	—	80	—
	Class I catalog Hp	114.7	—	114.7	—	114.7	—
	Class I torque in-lbs	82705	—	82705	—	82705	—
	Part number	M7H22T32C	—	M7H22T36C	—	M7H22T405C	—
18.77	Output RPM	93	—	93	—	93	—
	Class I catalog Hp	129.4	—	129.4	—	129.4	—
	Class I torque in-lbs	80425	—	80425	—	80425	—
	Part number	M7H19T32C	—	M7H19T36C	—	M7H19T405C	—
14.11	Output RPM	124	—	124	—	124	—
	Class I catalog Hp	129.4	—	129.4	—	129.4	—
	Class I torque in-lbs	60154	—	60154	—	60154	—
	Part number	M7H14T32C	—	M7H14T36C	—	M7H14T405C	—

This page lists all 'possible' part numbers. Part numbers with service factor higher than 2.0 may not be loaded in the system. Call Dodge for price availability. For reducer dimensions and accessories, see pages G1-48 through G1-73.

Engineering Selections

MTA8 horsepower and torque ratings

MTA8407

Ratio	Mtr speed	NEMA 250TC		NEMA 280TC / 280TSC		NEMA 320TC / 320TSC	
		1750	3450	1750	3450	1750	3450
78.80	Output RPM	22	44	22	44	22	44
	Class I catalog Hp	50.8	94.3	50.8	94.3	50.8	94.3
	Class I torque in-lbs	131708	124715	131708	124715	131708	124715
	Part number	M8H79T25C	M8H79T25C	M8H79T28C	M8H79T28TSC	M8H79T32C	M8H79T32TSC
68.53	Output RPM	26	50	26	50	26	50
	Class I catalog Hp	58.2	108.4	58.2	108.4	58.2	108.4
	Class I torque in-lbs	130018	123407	130018	123407	130018	123407
	Part number	M8H69T25C	M8H69T25C	M8H69T28C	M8H69T28TSC	M8H69T32C	M8H69T32TSC
60.13	Output RPM	29	57	29	57	29	57
	Class I catalog Hp	64.8	121.0	64.8	121.0	64.8	121.0
	Class I torque in-lbs	128779	121749	128779	121749	128779	121749
	Part number	M8H60T25C	M8H60T25C	M8H60T28C	M8H60T28TSC	M8H60T32C	M8H60T32TSC
52.53	Output RPM	33	66	33	66	33	66
	Class I catalog Hp	74.6	136.0	74.6	136.0	74.6	136.0
	Class I torque in-lbs	127379	120296	127379	120296	127379	120296
	Part number	M8H53T25C	M8H53T25C	M8H53T28C	M8H53T28TSC	M8H53T32C	M8H53T32TSC
50.58	Output RPM	35	68	35	68	35	68
	Class I catalog Hp	76.0	140.9	76.0	140.9	76.0	140.9
	Class I torque in-lbs	127250	119990	127250	119990	127250	119990
	Part number	M8H51T25C	M8H51T25C	M8H51T28C	M8H51T28TSC	M8H51T32C	M8H51T32TSC
45.69	Output RPM	38	76	38	76	38	76
	Class I catalog Hp	84.1	154.8	84.1	154.8	84.1	154.8
	Class I torque in-lbs	126275	118900	126275	118900	126275	118900
	Part number	M8H46T25C	M8H46T25C	M8H46T28C	M8H46T28TSC	M8H46T32C	M8H46T32TSC
40.09	Output RPM	44	86	44	86	44	86
	Class I catalog Hp	96.1	174.5	96.1	174.5	96.1	174.5
	Class I torque in-lbs	124850	117057	124850	117057	124850	117057
	Part number	M8H40T25C	M8H40T25C	M8H40T28C	M8H40T28TSC	M8H40T32C	M8H40T32TSC
33.90	Output RPM	52	102	52	102	52	102
	Class I catalog Hp	109.9	203.6	109.9	203.6	109.9	203.6
	Class I torque in-lbs	122950	114665	122950	114665	122950	114665
	Part number	M8H34T25C	M8H34T25C	M8H34T28C	M8H34T28TSC	M8H34T32C	M8H34T32TSC
30.76	Output RPM	57	112	57	112	57	112
	Class I catalog Hp	120.2	220.5	120.2	220.5	120.2	220.5
	Class I torque in-lbs	122121	113281	122121	113281	122121	113281
	Part number	M8H31T25C	M8H31T25C	M8H31T28C	M8H31T28TSC	M8H31T32C	M8H31T32TSC
26.82	Output RPM	65	—	65	—	65	—
	Class I catalog Hp	135.9	—	135.9	—	135.9	—
	Class I torque in-lbs	120500	—	120500	—	120500	—
	Part number	M8H27T25C	—	M8H27T28C	—	M8H27T32C	—
22.77	Output RPM	77	—	77	—	77	—
	Class I catalog Hp	156.3	—	156.3	—	156.3	—
	Class I torque in-lbs	118690	—	118690	—	118690	—
	Part number	M8H23T25C	—	M8H23T28C	—	M8H23T32C	—
17.43	Output RPM	100	—	100	—	100	—
	Class I catalog Hp	201.5	—	201.5	—	201.5	—
	Class I torque in-lbs	114960	—	114960	—	114960	—
	Part number	M8H17T25C	—	M8H17T28C	—	M8H17T32C	—
13.93	Output RPM	126	—	126	—	126	—
	Class I catalog Hp	201.5	—	201.5	—	201.5	—
	Class I torque in-lbs	91460	—	91460	—	91460	—
	Part number	M8H14T25C	—	M8H14T28C	—	M8H14T32C	—

This page lists all 'possible' part numbers. Part numbers with service factor higher than 2.0 may not be loaded in the system. Call Dodge for price availability. For reducer dimensions and accessories, see pages G1-48 through G1-73.

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Engineering Selections

MTA8 horsepower and torque ratings

MTA8407

Ratio	Mtr speed	NEMA 360TC / 360TSC		NEMA 405TC / 405TSC	
		1750	3450	1750	3450
78.80	Output RPM	—	44	—	—
	Class I catalog Hp	—	94.3	—	—
	Class I torque in-lbs	—	124715	—	—
	Part number	—	M8H79T36TSC	—	—
68.53	Output RPM	—	50	—	50
	Class I catalog Hp	—	108.4	—	108.4
	Class I torque in-lbs	—	123407	—	123407
	Part number	—	M8H69T36TSC	—	M8H69T405TSC
60.13	Output RPM	29	57	—	57
	Class I catalog Hp	64.8	121.0	—	121.0
	Class I torque in-lbs	128779	121749	—	121749
	Part number	M8H60T36C	M8H60T36TSC	—	M8H60T405TSC
52.53	Output RPM	33	66	—	66
	Class I catalog Hp	74.6	136.0	—	136.0
	Class I torque in-lbs	127379	120296	—	120296
	Part number	M8H53T36C	M8H53T36TSC	—	M8H53T405TSC
50.58	Output RPM	35	68	—	68
	Class I catalog Hp	76.0	140.9	—	140.9
	Class I torque in-lbs	127250	119990	—	119990
	Part number	M8H51T36C	M8H51T36TSC	—	M8H51T405TSC
45.69	Output RPM	38	76	—	76
	Class I catalog Hp	84.1	154.8	—	154.8
	Class I torque in-lbs	126275	118900	—	118900
	Part number	M8H46T36C	M8H46T36TSC	—	M8H46T405TSC
40.09	Output RPM	44	86	—	86
	Class I catalog Hp	96.1	174.5	—	174.5
	Class I torque in-lbs	124850	117057	—	117057
	Part number	M8H40T36C	M8H40T36TSC	—	M8H40T405TSC
33.90	Output RPM	52	102	52	102
	Class I catalog Hp	109.9	203.6	109.9	203.6
	Class I torque in-lbs	122950	114665	122950	114665
	Part number	M8H34T36C	M8H34T36TSC	M8H34T405C	M8H34T405TSC
30.76	Output RPM	57	112	57	112
	Class I catalog Hp	120.2	220.5	120.2	220.5
	Class I torque in-lbs	122121	113281	122121	113281
	Part number	M8H31T36C	M8H31T36TSC	M8H31T405C	M8H31T405TSC
26.82	Output RPM	65	—	65	—
	Class I catalog Hp	135.9	—	135.9	—
	Class I torque in-lbs	120500	—	120500	—
	Part number	M8H27T36C	—	M8H27T405C	—
22.77	Output RPM	77	—	77	—
	Class I catalog Hp	156.3	—	156.3	—
	Class I torque in-lbs	118690	—	118690	—
	Part number	M8H23T36C	—	M8H23T405C	—
17.43	Output RPM	100	—	100	—
	Class I catalog Hp	201.5	—	201.5	—
	Class I torque in-lbs	114960	—	114960	—
	Part number	M8H17T36C	—	M8H17T405C	—
13.93	Output RPM	126	—	126	—
	Class I catalog Hp	201.5	—	201.5	—
	Class I torque in-lbs	91460	—	91460	—
	Part number	M8H14T36C	—	M8H14T405C	—

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Call Dodge for price availability. For reducer dimensions and accessories, see pages G1-48 through G1-73.

EZ Selection Hp and Speed

EZ Selection Table use for gearbox and gearmotor selection:

- Select the gearbox based on horsepower and speed
- Most Torque-Arm applications will require a Class 2 service factor.
- Those table start on page G1-32
- When you have selected the gearbox, note which motor speed is required to be used for that output speed. There are 1750 and 3450rpm motors used.
- If the customer wants to order as a "gearmotor" package (gearbox and C-Face motor), refer to pages G1-40 to G1-46.
- The motors used in the listed Class I and Class 2 standard gearmotor part numbers, ex: M4H26T25C2018, are premium efficient VEM/CEM motors. They are three phase, totally enclosed, C-Face motors, IP44. Good for 10:1 VFD use.

Basic CEM/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

The severe duty motors listed in the Class 2 sections ex: M4H26T25C2018CP, are Premium Efficient CECP severe duty motors. They are three phase, totally enclosed, C-Face motors, IP55. Good for 10:1 VFD use.

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

For extreme applications requiring higher starting torque, we have some class 3 selections with Nema C motors. Please contact Dodge Gearing Product Management Team or your local Dodge sales engineer

Class I

EZ selection Hp and speed

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Hp	Output RPM	Reducer	Motor RPM
3	23	M2H77T18C	1750
	25	M2H71T18C	1750
	26	M2H66T18C	1750
	30	M2H58T18C	1750
	34	M2H54T18C	1750
	37	M2H47T18C	1750
	40	M2H44T18C	1750
	45	M2H39T18C	1750
	49	M2H36T18C	1750
	52	M2H66T18C	3450
	54	M2H32T18C	1750
	59	M2H30T18C	1750
	67	M2H51T18C	3450
	70	M2H25T18C	1750
	73	M2H47T18C	3450
	78	M2H44T18C	3450
	82	M2H21T18C	1750
	89	M2H39T18C	3450
	96	M2H36T18C	3450
	99	M2H18T18C	1750
5	107	M2H32T18C	3450
	116	M2H30T18C	3450
	119	M2H15T18C	1750
	139	M2H25T18C	3450
	163	M2H21T18C	3450
	195	M2H18T18C	3450
	235	M2H15T18C	3450
	23	M3H76T18C	1750
	25	M3H70T18C	1750
	26	M2H66T18C	1750

Hp	Output RPM	Reducer	Motor RPM
7.5	24	M4H74T21C	1750
	26	M4H66T21C	1750
	27	M3H65T21C	1750
	30	M3H58T21C	1750
	35	M3H51T21C	1750
	37	M3H47T21C	1750
	40	M2H44T21C	1750
	45	M2H39T21C	1750
	49	M2H36T21C	1750
	52	M2H66T21C	3450
	54	M2H32T21C	1750
	59	M2H30T21C	1750
	67	M2H51T21C	3450
	70	M2H25T21C	1750
	73	M2H47T21C	3450
	78	M2H44T21C	3450
	82	M2H21T21C	1750
	89	M2H39T21C	3450
	96	M2H36T21C	3450
	99	M2H18T21C	1750
10	107	M2H32T21C	3450
	116	M2H30T21C	3450
	119	M2H15T21C	1750
	139	M2H25T21C	3450
	163	M2H21T21C	3450
	195	M2H18T21C	3450
	235	M2H15T21C	3450
	24	M4H74T21C	1750
	26	M4H66T21C	1750
	29	M4H61T21C	1750

* Consult Dodge Engineering for thermal considerations of application
For reducer dimensions and accessories, see pages G1-48 through G1-73.
For reducer part numbers with motors, see pages G1-40 through G1-46 Class I and Class II selection tables.

Class I

EZ selection Hp and speed (cont.)

Hp	Output RPM	Reducer	Motor RPM
15	24	M5H72T25C	1750
	27	M5H65T25C	1750
	29	M5H60T25C	1750
	34	M4H52T25C	1750
	36	M4H49T25C	1750
	40	M4H44T25C	1750
	43	M4H41T25C	1750
	47	M4H74T25C	3450
	51	M4H34T25C	1750
	52	M4H66T25C	3450
	55	M3H32T25C	1750
	60	M3H29T25C	1750
	68	M3H51T25C	3450
	71	M3H25T25C	1750
	74	M3H47T25C	3450
	79	M3H44T25C	3450
	83	M3H21T25C	1750
	90	M3H38T25C	3450
	96	M2H36T25C	3450
	99	M2H18T25C	1750
	107	M2H32T25C	3450
	116	M2H30T25C	3450
	119	M2H15T25C	1750
	139	M2H25T25C	3450
	163	M2H21T25C	3450
	195	M2H18T25C	3450
	235	M2H15T25C	3450

Hp	Output RPM	Reducer	Motor RPM
25	23	M7H76T28C	1750
	26	M6H67T28C	1750
	30	M6H59T28C	1750
	33	M6H52T28C	1750
	35	M5H51T28C	1750
	36	M5H48T28C	1750
	41	M5H43T28C	1750
	44	M5H40T28C	1750
	48	M5H72T28TSC	3450
	52	M5H34T28C	1750
	53	M5H65T28TSC	3450
	58	M5H60T28TSC	3450
	60	M5H29T28C	1750
	67	M4H52T28TSC	3450
	68	M4H26T28C	1750
	70	M4H49T28TSC	3450
	78	M4H44T28TSC	3450
	80	M4H22T28C	1750
	85	M4H41T28TSC	3450
	98	M4H18T28C	1750
	100	M4H34T28TSC	3450
	115	M4H30T28TSC	3450
	122	M4H14T28C	1750
	140	M3H25T28TSC	3450
	165	M3H21T28TSC	3450
	198	M3H17T28TSC	3450
	238	M3H14T28TSC	3450

Hp	Output RPM	Reducer	Motor RPM
20	22	M6H79T25C	1750
	26	M6H67T25C	1750
	27	M5H65T25C	1750
	29	M5H60T25C	1750
	35	M5H51T25C	1750
	36	M5H48T25C	1750
	41	M5H43T25C	1750
	44	M5H40T25C	1750
	47	M4H74T25C	3450
	51	M4H34T25C	1750
	52	M4H66T25C	3450
	57	M4H61T25C	3450
	58	M4H30T25C	1750
	67	M4H52T25C	3450
	68	M4H26T25C	1750
	70	M4H49T25C	3450
	78	M4H44T25C	3450
	79	M3H44T25C	3450
	83	M3H21T25C	1750
	90	M3H38T25C	3450
	97	M3H35T25C	3450
	100	M3H17T25C	1750
	109	M3H32T25C	3450
	118	M3H29T25C	3450
	121	M3H14T25C	1750
	140	M3H25T25C	3450
	163	M2H21T25C	3450
	195	M2H18T25C	3450
	235	M2H15T25C	3450

Hp	Output RPM	Reducer	Motor RPM
30	23	M7H76T28C	1750
	26	M7H67T28C	1750
	30	M6H59T28C	1750
	33	M6H52T28C	1750
	35	M6H50T28C	1750
	39	M6H45T28C	1750
	41	M5H43T28C	1750
	44	M5H40T28C	1750
	48	M5H72T28TSC	3450
	52	M5H34T28C	1750
	53	M5H65T28TSC	3450
	58	M5H60T28TSC	3450
	60	M5H29T28C	1750
	68	M5H51T28TSC	3450
	70	M5H25T28C	1750
	72	M5H48T28TSC	3450
	78	M4H44T28TSC	3450
	80	M4H22T28C	1750
	85	M4H41T28TSC	3450
	98	M4H18T28C	1750
	100	M4H34T28TSC	3450
	115	M4H30T28TSC	3450
	122	M4H14T28C	1750
	140	M3H25T28TSC	3450
	165	M3H21T28TSC	3450
	198	M3H17T28TSC	3450
	238	M3H14T28TSC	3450

* Consult Dodge Engineering for thermal considerations of application
 For reducer dimensions and accessories, see pages G1-48 through G1-73.
 For reducer part numbers with motors, see pages G1-40 through G1-46 Class I and Class II selection tables.

Class I

EZ selection Hp and speed (cont.)

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Hp	Output RPM	Reducer	Motor RPM
40	–	–	–
	22	M8H79T32C	1750
	26	M7H67T32C	1750
	30	M7H58T32C	1750
	34	M7H51T32C	1750
	39	M7H44T32C	1750
	44	M6H79T32TSC	3450
	44	M6H39T32C	1750
	52	M6H67T32TSC	3450
	52	M6H34T32C	1750
	58	M5H60T32TSC	3450
	60	M5H29T32C	1750
	68	M5H51T32TSC	3450
	70	M5H25T32C	1750
	72	M5H48T32TSC	3450
	80	M5H43T32TSC	3450
	82	M5H21T32C	1750
	87	M5H40T32TSC	3450
	100	M5H18T32C	1750
	102	M5H34T32TSC	3450
	115	M4H30T32TSC*	3450
	135	M4H26T32TSC*	3450
	158	M4H22T32TSC*	3450
	193	M4H18T32TSC*	3450
	135	M4H26T32TSC*	3450
	158	M4H22T32TSC*	3450
	193	M4H14T32TSC*	3450

Hp	Output RPM	Reducer	Motor RPM
50	–	–	–
	22	M8H79T32C	1750
	26	M8H69T32C	1750
	29	M8H60T32C	1750
	34	M7H51T32C	1750
	39	M7H44T32C	1750
	45	M7H76T32TSC	3450
	46	M7H38T32C	1750
	52	M6H67T32TSC	3450
	52	M6H34T32C	1750
	58	M6H59T32TSC	3450
	60	M6H29T32C	1750
	66	M6H52T32TSC	3450
	69	M6H50T32TSC	3450
	72	M5H48T32TSC	3450
	80	M5H43T32TSC	3450
	82	M5H21T32C	1750
	87	M5H40T32TSC	3450
	100	M5H18T32C	1750
	102	M5H34T32TSC	3450
	117	M5H29T32TSC	3450
	125	M5H14T32C	1750
	138	M5H25T32TSC	3450
	158	M4H22T32TSC	3450
	193	M4H18T32TSC	3450
	193	M4H14T32TSC*	3450

Hp	Output RPM	Reducer	Motor RPM
60	29	M8H60T36C	1750
	33	M8H53T36C	1750
	34	M8H51T36C	1750
	38	M8H46T36C	1750
	39	M7H44T36C	1750
	45	M7H76T36TSC	3450
	46	M7H38T36C	1750
	52	M7H67T36TSC	3450
	52	M7H33T36C	1750
	60	M7H58T36TSC	3450
	61	M7H29T36C	1750
	66	M6H52T36TSC	3450
	69	M6H50T36TSC	3450
	72	M6H24T36C	1750
	77	M6H45T36TSC	3450
	79	M6H22T36C	1750
	88	M6H39T36TSC	3450
	92	M6H19T36C	1750
	100	M5H18T36C	1750
	102	M5H34T36TSC	3450
	117	M5H29T36TSC	3450
	125	M5H14T36C	1750
	138	M5H25T36TSC	3450
	162	M5H21T36TSC	3450
	197	M5H18T36TSC	3450

Hp	Output RPM	Reducer	Motor RPM
75	–	–	–
	34	M8H51T36C	1750
	38	M8H46T36C	1750
	44	M8H40T36C	1750
	44	M8H79T36TSC	3450
	50	M8H69T36TSC	3450
	52	M7H67T36TSC	3450
	52	M7H33T36C	1750
	60	M7H58T36TSC	3450
	61	M7H29T36C	1750
	68	M7H51T36TSC	3450
	68	M7H26T36C	1750
	78	M7H44T36TSC	3450
	80	M7H22T36C	1750
	88	M6H39T36TSC*	3450
	92	M6H19T36C*	1750
	103	M6H34T36TSC*	3450
	119	M6H29T36TSC*	3450
	123	M6H14T36C*	1750
	141	M6H24T36TSC*	3450
	157	M6H22T36TSC*	3450
	162	M5H21T36TSC*	3450
	197	M5H18T36TSC*	3450

* Consult Dodge Engineering for thermal considerations of application
 For reducer dimensions and accessories, see pages G1-42 through G1-67.
 For reducer part numbers with motors, see pages G1-35 through G1-41 Class I and Class II selection tables.

Class I

EZ selection Hp and speed (cont.)

Hp	Output RPM	Reducer	Motor RPM
100	50	M8H69T405TSC*	3450
	52	M8H34T405C*	1750
	57	M8H31T405C*	1750
	57	M8H60T405TSC*	3450
	65	M8H27T405C*	1750
	66	M8H53T405TSC*	3450
	68	M8H51T405TSC*	3450
	76	M8H46T405TSC*	3450
	77	M8H23T405C*	1750
	78	M7H44T405TSC*	3450
	80	M7H22T405C*	1750
	90	M7H38T405TSC*	3450
	93	M7H19T405C*	1750
	103	M7H33T405TSC*	3450
	120	M7H29T405TSC*	3450
	124	M7H14T405C*	1750
	134	M7H26T405TSC*	3450
	134	M7H26T405TSC*	3450

* Consult Dodge Engineering for thermal considerations of application. This reducer motor combination requires the largest optional fan available for the 100hp motor. This is included in the gearmotor packages, but customers using other motors need to add this for extended thermal capacity.

Class II

EZ selection Hp and speed

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Hp	Output RPM	Reducer	Motor RPM
3	23	M2H77T18C	1750
	25	M2H71T18C	1750
	26	M2H66T18C	1750
	30	M2H58T18C	1750
	34	M2H54T18C	1750
	37	M2H47T18C	1750
	40	M2H44T18C	1750
	45	M2H39T18C	1750
	49	M2H36T18C	1750
	52	M2H66T18C	3450
	54	M2H32T18C	1750
	59	M2H30T18C	1750
	67	M2H51T18C	3450
	70	M2H25T18C	1750
	73	M2H47T18C	3450
	78	M2H44T18C	3450
	82	M2H21T18C	1750
	89	M2H39T18C	3450
	96	M2H36T18C	3450
	99	M2H18T18C	1750
	107	M2H32T18C	3450
	116	M2H30T18C	3450
	119	M2H14T18C	1750
	139	M2H25T18C	3450
	163	M2H21T18C	3450
	195	M2H18T18C	3450
	235	M2H14T18C	3450

Hp	Output RPM	Reducer	Motor RPM
5	23	M3H76T18C	1750
	25	M3H70T18C	1750
	27	M3H65T18C	1750
	30	M3H58T18C	1750
	35	M3H51T18C	1750
	37	M3H47T18C	1750
	40	M2H44T18C	1750
	45	M2H39T18C	1750
	49	M2H36T18C	1750
	52	M2H66T18C	3450
	54	M2H32T18C	1750
	59	M2H30T18C	1750
	67	M2H51T18C	3450
	70	M2H25T18C	1750
	73	M2H47T18C	3450
	78	M2H44T18C	3450
	82	M2H21T18C	1750
	89	M2H39T18C	3450
	96	M2H36T18C	3450
	99	M2H18T18C	1750
	107	M2H32T18C	3450
	116	M2H30T18C	3450
	119	M2H14T18C	1750
	139	M2H25T18C	3450
	163	M2H21T18C	3450
	195	M2H18T18C	3450
	235	M2H14T18C	3450

Hp	Output RPM	Reducer	Motor RPM
7.5	24	M4H74T21C	1750
	26	M4H66T21C	1750
	29	M4H61T21C	1750
	34	M4H52T21C	1750
	36	M4H49T21C	1750
	37	M3H47T21C	1750
	40	M3H44T21C	1750
	46	M3H38T21C	1750
	49	M3H35T21C	1750
	53	M3H65T21C	3450
	55	M3H32T21C	1750
	60	M3H29T21C	1750
	67	M2H51T21C	3450
	70	M2H25T21C	1750
	73	M2H47T21C	3450
	78	M2H44T21C	3450
	82	M2H21T21C	1750
	89	M2H39T21C	3450
	96	M2H36T21C	3450
	99	M2H18T21C	1750
	107	M2H32T21C	3450
	116	M2H30T21C	3450
	119	M2H14T21C	1750
	139	M2H25T21C	3450
	163	M2H21T21C	3450
	195	M2H18T21C	3450
	235	M2H14T21C	3450

Hp	Output RPM	Reducer	Motor RPM
10	24	M5H72T21C	1750
	27	M5H65T21C	1750
	29	M5H60T21C	1750
	34	M4H52T21C	1750
	36	M4H49T21C	1750
	40	M4H44T21C	1750
	43	M4H41T21C	1750
	47	M4H74T21C	3450
	49	M3H35T21C	1750
	53	M3H65T21C	3450
	55	M3H32T21C	1750
	60	M3H29T21C	1750
	68	M3H51T21C	3450
	71	M3H25T21C	1750
	74	M3H47T21C	3450
	79	M3H44T21C	3450
	83	M3H21T21C	1750
	89	M2H39T21C	3450
	96	M2H36T21C	3450
	99	M2H18T21C	1750
	107	M2H32T21C	3450
	116	M2H30T21C	3450
	119	M2H14T21C	1750
	139	M2H25T21C	3450
	163	M2H21T21C	3450
	195	M2H18T21C	3450
	235	M2H14T21C	3450

* Consult Dodge Engineering for thermal considerations of application
 For reducer dimensions and accessories, see pages G1-48 through G1-73.
 For reducer part numbers with motors, see pages G1-40 through G1-46 Class I and Class II selection tables.

Class II

EZ selection Hp and speed (cont.)

Hp	Output RPM	Reducer	Motor RPM
15	22	M6H79T25C	1750
	26	M6H67T25C	1750
	29	M5H60T25C	1750
	35	M5H51T25C	1750
	36	M5H48T25C	1750
	41	M5H43T25C	1750
	44	M5H40T25C	1750
	48	M5H72T25C	3450
	51	M4H34T25C	1750
	52	M4H66T25C	3450
	57	M4H61T25C	3450
	58	M4H30T25C	1750
	67	M4H52T25C	3450
	68	M4H26T25C	1750
	70	M4H49T25C	3450
	79	M3H44T25C	3450
	83	M3H21T25C	1750
	90	M3H38T25C	3450
	97	M3H35T25C	3450
	100	M3H17T25C	1750
	109	M3H32T25C	3450
	118	M3H29T25C	3450
	121	M3H14T25C	1750
	140	M3H25T25C	3450
	163	M2H21T25C	3450
	195	M2H18T25C	3450
	235	M2H14T25C	3450

Hp	Output RPM	Reducer	Motor RPM
25	23	M7H76T28C	1750
	26	M7H67T28C	1750
	30	M7H58T28C	1750
	34	M7H51T28C	1750
	35	M6H504T28C	1750
	39	M6H45T28C	1750
	44	M6H79T28TSC	3450
	44	M6H39T28C	1750
	48	M5H72T28TSC	3450
	52	M5H34T28C	1750
	53	M5H65T28TSC	3450
	58	M5H60T28TSC	3450
	60	M5H29T28C	1750
	68	M5H51T28TSC	3450
	70	M5H25T28C	1750
	72	M5H48T28TSC	3450
	80	M5H43T28TSC	3450
	82	M5H21T28C	1750
	87	M5H40T28TSC	3450
	98	M4H18T28C	1750
	100	M4H34T28TSC	3450
	115	M4H30T28TSC	3450
	122	M4H14T28C	1750
	135	M4H26T28TSC	3450
	158	M4H22T28TSC	3450
	165	M3H21T28TSC	3450
	198	M3H17T28TSC	3450
	238	M3H14T28TSC	3450

* Consult Dodge Engineering for thermal considerations of application
 For reducer dimensions and accessories, see pages G1-48 through G1-73.
 For reducer part numbers with motors, see pages G1-40 through G1-46 Class I and Class II selection tables.

Hp	Output RPM	Reducer	Motor RPM
20	23	M7H76T25C	1750
	27	M7H67T25C	1750
	30	M6H59T25C	1750
	33	M6H52T25C	1750
	35	M6H50T25C	1750
	39	M6H45T25C	1750
	41	M5H43T25C	1750
	44	M5H40T25C	1750
	48	M5H72T25C	3450
	52	M5H34T25C	1750
	53	M5H65T25C	3450
	58	M5H60T25C	3450
	60	M5H29T25C	1750
	68	M4H26T25C	1750
	70	M4H49T25C	3450
	78	M4H44T25C	3450
	80	M4H22T25C	1750
	85	M4H41T25C	3450
	98	M4H18T25C	1750
	100	M4H34T25C	3450
	115	M4H30T25C	3450
	121	M4H14T25C	1750
	140	M3H25T25C	3450
	165	M3H21T25C	3450
	198	M3H17T25C	3450
	238	M3H14T25C	3450

Hp	Output RPM	Reducer	Motor RPM
30	22	M8H79T28C	1750
	26	M8H69T32C	1750
	30	M7H58T28C	1750
	34	M7H51T28C	1750
	39	M7H44T28C	1750
	44	M6H79T28TSC	3450
	44	M6H39T28C	1750
	52	M6H67T28TSC	3450
	52	M6H34T28C	1750
	58	M5H60T28TSC	3450
	60	M5H29T28C	1750
	68	M5H51T28TSC	3450
	70	M5H25T28C	1750
	72	M5H48T28TSC	3450
	80	M5H43T28TSC	3450
	82	M5H21T28C	1750
	87	M5H40T28TSC	3450
	100	M5H18T28C	1750
	102	M5H34T28TSC	3450
	117	M5H29T28TSC	3450
	125	M5H14T28C	1750
	135	M4H26T28TSC	3450
	158	M4H22T28TSC	3450
	193	M4H18T28TSC	3450

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Class II

EZ selection Hp and speed (cont.)

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Hp	Output RPM	Reducer	Motor RPM
40	26	M8H69T32C	1750
	29	M8H60T32C	1750
	33	M8H53T32C	1750
	34	M8H51T32C	1750
	38	M8H46T32C	1750
	39	M7H44T32C	1750
	45	M7H76T32TSC	3450
	46	M7H38T32C	1750
	52	M7H67T32TSC	3450
	52	M7H33T32C	1750
	58	M6H59T32TSC	3450
	60	M6H29T32C	1750
	66	M6H52T32TSC	3450
	69	M6H50T32TSC	3450
	72	M6H24T32C	1750
	77	M6H45T32TSC	3450
	79	M6H22T32C	1750
	82	M5H21T32C	1750
	87	M5H40T32TSC	3450
	100	M5H18T32C	1750
	102	M5H34T32TSC	3450
	117	M5H29T32TSC	3450
	125	M5H14T32C	1750
	138	M5H25T32TSC	3450
	162	M5H21T32TSC	3450
	193	M4H18T32TSC	3450

Hp	Output RPM	Reducer	Motor RPM
50	33	M8H53T32C	1750
	34	M8H51T32C	1750
	38	M8H46T32C	1750
	44	M8H40T32C	1750
	44	M8H79T32TSC	3450
	50	M8H69T32TSC	3450
	52	M7H67T32TSC	3450
	52	M7H33T32C	1750
	60	M7H58T32TSC	3450
	61	M7H29T32C	1750
	68	M7H51T32TSC	3450
	68	M7H26T32C	1750
	72	M6H24T32C	1750
	77	M6H45T32TSC	3450
	79	M6H22T32C	1750
	88	M6H39T32TSC	3450
	92	M6H19T32C	1750
	103	M6H34T32TSC	3450
	119	M6H29T32TSC	3450
	123	M6H14T32C	1750
	138	M5H25T32TSC	3450
	162	M5H21T32TSC	3450
	197	M5H18T32TSC	3450

Hp	Output RPM	Reducer	Motor RPM
60	38	M8H46T36C	1750
	44	M8H40T36C	1750
	44	M8H79T36TSC	3450
	50	M8H69T36TSC	3450
	52	M8H34T36C	1750
	57	M8H31T36C	1750
	57	M8H60T36TSC	3450
	60	M7H58T36TSC	3450
	61	M7H29T36C	1750
	68	M7H51T36TSC	3450
	68	M7H26T36C	1750
	78	M7H44T36TSC	3450
	80	M7H22T36C	1750
	90	M7H38T36TSC	3450
	92	M6H19T36C	1750
	103	M6H34T36TSC	3450
	119	M6H29T36TSC	3450
	123	M6H14T36C	1750
	141	M6H24T36TSC	3450
	157	M6H22T36TSC	3450

Hp	Output RPM	Reducer	Motor RPM
75	50	M8H69T36TSC	3450
	52	M8H34T36C	1750
	57	M8H31T36C	1750
	57	M8H60T36TSC	3450
	65	M8H27T36C	1750
	66	M8H53T36TSC	3450
	68	M8H51T36TSC	3450
	76	M8H46T36TSC	3450
	77	M8H23T36C	1750
	78	M7H44T36TSC	3450
	80	M7H22T36C	1750
	90	M7H38T36TSC	3450
	93	M7H19T36C	1750
	103	M7H33T36TSC	3450
	119	M7H29T36TSC	3450
	124	M7H14T36C	1750
	141	M6H24T36TSC*	3450
	157	M6H22T36TSC*	3450

* Consult Dodge Engineering for thermal considerations of application
For reducer dimensions and accessories, see pages G1-48 through G1-73.
For reducer part numbers with motors, see pages G1-40 through G1-46 Class I and Class II selection tables.

Class II

EZ selection Hp and speed (cont.)

Hp	Output RPM	Reducer	Motor RPM
100	68	M8H51T405TSC*	3450
	76	M8H46T405TSC*	3450
	77	M8H23T405C*	1750
	86	M8H40T405TSC*	3450
	100	M8H17T405C*	1750
	102	M8H34T405TSC*	3450
	112	M8H31T405TSC*	3450
	124	M8H14T405C*	1750
	134	M7H26T405TSC*	3450
	120	M7H29T405TSC*	3450
	134	M7H26T405TSC*	3450

* Consult Dodge Engineering for thermal considerations of application. This reducer motor combination requires the largest optional fan available for the 100hp motor. This is included in the gearmotor packages, but customers using other motors need to add this for extended thermal capacity.

MTA2115H

MTA EZ Selection Tables

Class I - 1.0 service factor

Output RPM	Ratio	Class 1 motor Hp	Motor speed	Part number	C-Face Gearmotor Part number	Service factor
23	76.96	3	1750	M2H77T18C	M2H77T18C318	1.47
25	71.18	3	1750	M2H71T18C	M2H71T18C318	1.60
26	66.07	5	1750	M2H66T18C	M2H66T18C518	1.01
30	58.29	5	1750	M2H58T18C	M2H58T18C518	1.16
34	51.31	5	1750	M2H51T18C	M2H51T18C518	1.29
37	47.45	5	1750	M2H47T18C	M2H47T18C518	1.40
40	44.05	7.5	1750	M2H44T21C	M2H44T21C718	1.01
45	38.86	7.5	1750	M2H39T21C	M2H39T21C718	1.12
49	35.88	7.5	1750	M2H36T21C	M2H36T21C718	1.20
52	66.07	7.5	3450	M2H66T21C	M2H66T21C736	1.27
54	32.15	7.5	1750	M2H32T21C	M2H32T21C718	1.31
59	29.64	10	1750	M2H30T21C	M2H30T21C1018	1.05
67	51.31	10	3450	M2H51T21C	M2H51T21C1036	1.17
70	24.87	10	1750	M2H25T21C	M2H25T21C1018	1.21
73	47.45	10	3450	M2H47T21C	M2H47T21C1036	1.25
78	44.05	10	3450	M2H44T21C	M2H44T21C1036	1.31
82	21.22	10	1750	M2H21T21C	M2H21T21C1018	1.37
89	38.86	10	3450	M2H39T21C	M2H39T21C1036	1.46
96	35.88	15	3450	M2H36T25C	M2H36T25C1536	1.03
99	17.68	15	1750	M2H18T25C	M2H18T25C1518	1.05
107	32.15	15	3450	M2H32T25C	M2H32T25C1536	1.11
116	29.64	15	3450	M2H30T25C	M2H30T25C1536	1.17
119	14.65	15	1750	M2H15T25C	M2H15T25C1518	1.05
139	24.87	15	3450	M2H25T25C	M2H25T25C1536	1.32
163	21.22	20	3450	M2H21T25C	M2H21T25C2036	1.12
195	17.68	20	3450	M2H18T25C	M2H18T25C2036	1.28
235	14.65	20	3450	M2H15T25C	M2H15T25C2036	1.28

* Consult Dodge Engineering for thermal considerations of application

Class II, 1.4 service factor

Output RPM	Ratio	Class 2 motor Hp	Motor speed	Part number	Std C-Face Gearmotor Part number	Severe duty C-Face Gearmotor Part number	Service factor
23	76.96	3	1750	M2H77T18C	M2H77T18C318	M2H77T18C318CP	1.47
25	71.18	3	1750	M2H71T18C	M2H71T18C318	M2H71T18C318CP	1.60
26	66.07	3	1750	M2H66T18C	M2H66T18C318	M2H66T18C318CP	1.68
30	58.29	3	1750	M2H58T18C	M2H58T18C318	M2H58T18C318CP	1.94
34	51.31	3	1750	M2H51T18C	M2H51T18C318	M2H51T18C318CP	2.16
37	47.45	3	1750	M2H47T18C	M2H47T18C318	M2H47T18C318CP	2.33
40	44.05	5	1750	M2H44T18C	M2H44T18C518	M2H44T18C518CP	1.51
45	38.86	5	1750	M2H39T18C	M2H39T18C518	M2H39T18C518CP	1.68
49	35.88	5	1750	M2H36T18C	M2H36T18C518	M2H36T18C518CP	1.80
52	66.07	5	3450	M2H66T18C	M2H66T18C536	M2H66T18C536CP	1.90
54	32.15	5	1750	M2H32T18C	M2H32T18C518	M2H32T18C518CP	1.96
59	29.64	5	1750	M2H30T18C	M2H30T18C518	M2H30T18C518CP	2.11
67	51.31	7.5	3450	M2H51T21C	M2H51T21C736	M2H51T21C736CP	1.56
70	24.87	7.5	1750	M2H25T21C	M2H25T21C718	M2H25T21C718CP	1.62
73	47.45	7.5	3450	M2H47T21C	M2H47T21C736	M2H47T21C736CP	1.66
78	44.05	7.5	3450	M2H44T21C	M2H44T21C736	M2H44T21C736CP	1.74
82	21.22	7.5	1750	M2H21T21C	M2H21T21C718	M2H21T21C718CP	1.82
89	38.86	10	3450	M2H39T21C	M2H39T21C1036	M2H39T21C1036CP	1.46
96	35.88	10	3450	M2H36T21C	M2H36T21C1036	M2H36T21C1036CP	1.54
99	17.68	10	1750	M2H18T21C	M2H18T21C1018	M2H18T21C1018CP	1.57
107	32.15	10	3450	M2H32T21C	M2H32T21C1036	M2H32T21C1036CP	1.66
116	29.64	10	3450	M2H30T21C	M2H30T21C1036	M2H30T21C1036CP	1.76
119	14.65	10	1750	M2H15T21C	M2H15T21C1018	M2H15T21C1018CP	1.57
139	24.87	10	3450	M2H25T21C	M2H25T21C1036	M2H25T21C1036CP	1.98
163	21.22	15	3450	M2H21T25C	M2H21T25C1536	M2H21T25C1536CP	1.49
195	17.68	15	3450	M2H18T25C	M2H18T25C1536	M2H18T25C1536CP	1.71
235	14.65	15	3450	M2H15T25C	M2H15T25C1536	M2H15T25C1536CP	1.71

+ Severe duty gearmotor packages are designed for class 2 service and come with a CECP severe duty motor attached
For reducer dimensions and accessories, see pages G1-48 through G1-73.

MTA3203H

MTA EZ Selection Tables

Class I - 1.0 service factor

Output RPM	Ratio	Class 1 motor Hp	Motor speed	Part number	C-Face Gearmotor Part number	Service factor
23	76.02	5	1750	M3H76T18C	M3H76T18C518	1.42
25	70.30	5	1750	M3H70T18C	M3H70T18C518	1.48
27	65.26	7.5	1750	M3H65T21C	M3H65T21C718	1.04
30	57.58	7.5	1750	M3H58T21C	M3H58T21C718	1.20
35	50.68	10	1750	M3H51T21C	M3H51T21C1018	1.01
37	46.87	10	1750	M3H47T21C	M3H47T21C1018	1.09
40	43.51	10	1750	M3H44T21C	M3H44T21C1018	1.19
46	38.39	10	1750	M3H38T21C	M3H38T21C1018	1.31
49	35.44	10	1750	M3H35T21C	M3H35T21C1018	1.42
53	65.26	10	3450	M3H65T21C	M3H65T21C1036	1.48
55	31.75	15	1750	M3H32T25C	M3H32T25C1518	1.02
60	29.28	15	1750	M3H29T25C	M3H29T25C1518	1.09
68	50.68	15	3450	M3H51T25C	M3H51T25C1536	1.18
71	24.57	15	1750	M3H25T25C	M3H25T25C1518	1.26
74	46.87	15	3450	M3H47T25C	M3H47T25C1536	1.30
79	43.51	20	3450	M3H44T25C	M3H44T25C2036	1.04
83	20.96	20	1750	M3H21T25C	M3H21T25C2018	1.08
90	38.39	20	3450	M3H38T25C	M3H38T25C2036	1.15
97	35.44	20	3450	M3H35T25C	M3H35T25C2036	1.23
100	17.46	20	1750	M3H17T25C	M3H17T25C2018	1.26
109	31.75	20	3450	M3H32T25C	M3H32T25C2036	1.34
118	29.28	20	3450	M3H29T25C	M3H29T25C2036	1.40
121	14.47	20	1750	M3H14T25C	M3H14T25C2018	1.26
140	24.57	30	3450	M3H25T28TSC	M3H25T28TSC3036	1.09
165	20.96	30	3450	M3H21T28TSC	M3H21T28TSC3036	1.22
198	17.46	30	3450	M3H17T28TSC	M3H17T28TSC3036	1.37
238	14.47	30	3450	M3H14T28TSC	M3H14T28TSC3036	1.37

* Consult Dodge Engineering for thermal considerations of application

Class II, 1.4 service factor

Output RPM	Ratio	Class 2 motor Hp	Motor speed	Part number	Std C-Face Gearmotor Part number	Severe duty C-Face GearMotor Part number	Service factor
23	76.02	5	1750	M3H76T18C	M3H76T18C518	M3H76T18C518CP	1.42
25	70.30	5	1750	M3H70T18C	M3H70T18C518	M3H70T18C518CP	1.48
27	65.26	5	1750	M3H65T18C	M3H65T18C518	M3H65T18C518CP	1.56
30	57.58	5	1750	M3H58T18C	M3H58T18C518	M3H58T18C518CP	1.80
35	50.68	5	1750	M3H51T18C	M3H51T18C518	M3H51T18C518CP	2.03
37	46.87	7.5	1750	M3H47T21C	M3H47T21C718	M3H47T21C718CP	1.46
40	43.51	7.5	1750	M3H44T21C	M3H44T21C718	M3H44T21C718CP	1.58
46	38.39	7.5	1750	M3H38T21C	M3H38T21C718	M3H38T21C718CP	1.74
49	35.44	10	1750	M3H35T21C	M3H35T21C1018	M3H35T21C1018CP	1.42
53	65.26	10	3450	M3H65T21C	M3H65T21C1036	M3H65T21C1036CP	1.48
55	31.75	10	1750	M3H32T21C	M3H32T21C1018	M3H32T21C1018CP	1.53
60	29.28	10	1750	M3H29T21C	M3H29T21C1018	M3H29T21C1018CP	1.64
68	50.68	10	3450	M3H51T21C	M3H51T21C1036	M3H51T21C1036CP	1.77
71	24.57	10	1750	M3H25T21C	M3H25T21C1018	M3H25T21C1018CP	1.89
74	46.87	10	3450	M3H47T21C	M3H47T21C1036	M3H47T21C1036CP	1.95
79	43.51	15	3450	M3H44T25C	M3H44T25C1536	M3H44T25C1536CP	1.38
83	20.96	15	1750	M3H21T25C	M3H21T25C1518	M3H21T25C1518CP	1.44
90	38.39	15	3450	M3H38T25C	M3H38T25C1536	M3H38T25C1536CP	1.54
97	35.44	15	3450	M3H35T25C	M3H35T25C1536	M3H35T25C1536CP	1.64
100	17.46	15	1750	M3H17T25C	M3H17T25C1518	M3H17T25C1518CP	1.68
109	31.75	15	3450	M3H32T25C	M3H32T25C1536	M3H32T25C1536CP	1.79
118	29.28	15	3450	M3H29T25C	M3H29T25C1536	M3H29T25C1536CP	1.86
121	14.47	15	1750	M3H14T25C	M3H14T25C1518	M3H14T25C1518CP	1.68
140	24.57	20	3450	M3H25T25C	M3H25T25C2036	M3H25T25C2036CP	1.64
165	20.96	25	3450	M3H21T28TSC	M3H21T28TSC2536	M3H21T28TSC2536CP	1.47
198	17.46	25	3450	M3H17T28TSC	M3H17T28TSC2536	M3H17T28TSC2536CP	1.64
235	14.47	25	3450	M3H14T28TSC	M3H14T28TSC2536	M3H14T28TSC2536CP	1.64

*+ Severe duty gearmotor packages are designed for class 2 service and come with a CECF severe duty motor attached
For reducer dimensions and accessories, see pages G1-48 through G1-73.

MTA4207H

MTA EZ Selection Tables

Class I - 1.0 service factor

Output RPM	Ratio	Class 1 motor Hp	Motor speed	Part number	C-Face Gearmotor Part number	Service factor
24	73.57	10	1750	M4H74T21C	M4H74T21C1018	1.15
26	66.17	10	1750	M4H66T21C	M4H66T21C1018	1.24
29	61.04	10	1750	M4H61T21C	M4H61T21C1018	1.32
34	51.72	15	1750	M4H52T25C	M4H52T25C1518	1.04
36	49.04	15	1750	M4H49T25C	M4H49T25C1518	1.09
40	44.11	15	1750	M4H44T25C	M4H44T25C1518	1.20
43	40.70	15	1750	M4H41T25C	M4H41T25C1518	1.27
47	73.57	20	3450	M4H74T25C	M4H74T25C2036	1.01
51	34.48	20	1750	M4H34T25C	M4H34T25C2018	1.09
52	66.17	20	3450	M4H66T25C	M4H66T25C2036	1.13
57	61.04	20	3450	M4H61T25C	M4H61T25C2036	1.20
58	30.05	20	1750	M4H30T25C	M4H30T25C2018	1.24
67	51.72	25	3450	M4H52T28TSC	M4H52T28TSC2536	1.10
68	25.57	25	1750	M4H26T28C	M4H26T28C2518	1.13
70	49.04	25	3450	M4H49T28TSC	M4H49T28TSC2536	1.16
78	44.11	30	3450	M4H44T28TSC	M4H44T28TSC3036	1.06
80	21.82	30	1750	M4H22T28C	M4H22T28C3018	1.08
85	40.70	30	3450	M4H41T28TSC	M4H41T28TSC3036	1.13
98	17.89	30	1750	M4H18T28C	M4H18T28C3018	1.29
100	34.48	30	3450	M4H34T28TSC	M4H34T28TSC3036	1.31
115	30.05	30	3450	M4H30T28TSC	M4H30T28TSC3036	1.39
122	14.35	30	1750	M4H14T28C	M4H14T28C3018	1.29
135	25.57	40	3450	M4H26T32TSC	M4H26T32TSC4036	1.18
158	21.82	50	3450	M4H22T32TSC	M4H22T32TSC5036	1.06
193	17.89	50	3450	M4H18T32TSC	M4H18T32TSC5036	1.19

* Consult Dodge Engineering for thermal considerations of application

Class II, 1.4 service factor

Output RPM	Ratio	Class 2 motor Hp	Motor speed	Part number	Std C-Face Gearmotor Part number	Severe duty C-Face Gearmotor Part number	Service factor
24	73.57	7.5	1750	M4H74T21C	M4H74T21C718	M4H74T21C718CP	1.53
26	66.17	7.5	1750	M4H66T21C	M4H66T21C718	M4H66T21C718CP	1.65
29	61.04	7.5	1750	M4H61T21C	M4H61T21C718	M4H61T21C718CP	1.76
34	51.72	10	1750	M4H52T21C	M4H52T21C1018	M4H52T21C1018CP	1.56
36	49.04	10	1750	M4H49T21C	M4H49T21C1018	M4H49T21C1018CP	1.64
40	44.11	10	1750	M4H44T21C	M4H44T21C1018	M4H44T21C1018CP	1.80
43	40.70	10	1750	M4H41T21C	M4H41T21C1018	M4H41T21C1018CP	1.90
47	73.57	10	3450	M4H74T21C	M4H74T21C1036	M4H74T21C1036CP	2.03
51	34.48	15	1750	M4H34T25C	M4H34T25C1518	M4H34T25C1518CP	1.45
52	66.17	15	3450	M4H66T25C	M4H66T25C1536	M4H66T25C1536CP	1.50
57	61.04	15	3450	M4H61T25C	M4H61T25C1536	M4H61T25C1536CP	1.60
58	30.05	15	1750	M4H30T25C	M4H30T25C1518	M4H30T25C1518CP	1.65
67	51.72	15	3450	M4H52T25C	M4H52T25C1536	M4H52T25C1536CP	1.84
68	25.57	20	1750	M4H26T25C	M4H26T25C2018	M4H26T25C2018CP	1.42
70	49.04	20	3450	M4H49T25C	M4H49T25C2036	M4H49T25C2036CP	1.45
78	44.11	20	3450	M4H44T25C	M4H44T25C2036	M4H44T25C2036CP	1.59
80	21.82	20	1750	M4H22T25C	M4H22T25C2018	M4H22T25C2018CP	1.63
85	40.70	20	3450	M4H41T25C	M4H41T25C2036	M4H41T25C2036CP	1.69
98	17.89	25	1750	M4H18T28C	M4H18T28C2518	M4H18T28C2518CP	1.54
100	34.48	25	3450	M4H34T28TSC	M4H34T28TSC2536	M4H34T28TSC2536CP	1.57
115	30.05	25	3450	M4H30T28TSC	M4H30T28TSC2536	M4H30T28TSC2536CP	1.72
122	14.35	25	1750	M4H14T28C	M4H14T28C2518	M4H14T28C2518CP	1.54
135	25.57	30	3450	M4H26T28TSC	M4H26T28TSC3036	M4H26T28TSC3036CP	1.58
158	21.82	30	3450	M4H22T28TSC	M4H22T28TSC3036	M4H22T28TSC3036CP	1.76
193	17.89	40	3450	M4H18T32TSC	M4H18T32TSC4036	M4H18T32TSC4036CP	1.48

+ Severe duty gearmotor packages are designed for class 2 service and come with a CECP severe duty motor attached
For reducer dimensions and accessories, see pages G1-48 through G1-73.

MTA5215H

MTA EZ Selection Tables

Class I - 1.0 service factor

Output RPM	Ratio	Class 1 motor Hp	Motor speed	Part number	C-Face Gearmotor Part number	Service factor
24	71.98	15	1750	M5H72T25C	M5H72T25C1518	1.28
27	64.74	20	1750	M5H65T25C	M5H65T25C2018	1.04
29	59.73	20	1750	M5H60T25C	M5H60T25C2018	1.15
35	50.61	25	1750	M5H51T28C	M5H51T28C2518	1.07
36	47.99	25	1750	M5H48T28C	M5H48T28C2518	1.13
41	43.16	30	1750	M5H43T28C	M5H43T28C3018	1.04
44	39.82	30	1750	M5H40T28C	M5H40T28C3018	1.10
48	71.98	30	3450	M5H72T28TSC	M5H72T28TSC3036	1.19
52	33.74	30	1750	M5H34T28C	M5H34T28C3018	1.29
53	64.74	30	3450	M5H65T28TSC	M5H65T28TSC3036	1.32
58	59.73	40	3450	M5H60T32TSC	M5H60T32TSC4036	1.07
60	29.41	40	1750	M5H29T32C	M5H29T32C4018	1.09
68	50.61	40	3450	M5H51T32TSC	M5H51T32TSC4036	1.24
70	25.05	50	1750	M5H25T32C	M5H25T32C5018	1.01
72	47.99	50	3450	M5H48T32TSC	M5H48T32TSC5036	1.04
80	43.16	50	3450	M5H43T32TSC	M5H43T32TSC5036	1.14
82	21.35	50	1750	M5H21T32C	M5H21T32C5018	1.17
87	39.82	50	3450	M5H40T32TSC	M5H40T32TSC5036	1.20
100	17.50	60	1750	M5H18T36C	M5H18T36C6018	1.08
102	33.74	60	3450	M5H34T36TSC	M5H34T36TSC6036	1.10
117	29.41	60	3450	M5H29T36TSC	M5H29T36TSC6036	1.18
125	14.05	60	1750	M5H14T36C	M5H14T36C6018	1.08
138	25.05	60	3450	M5H25T36TSC	M5H25T36TSC6036	1.29
162	21.35	60	3450	M5H21T36TSC	M5H21T36TSC6036	1.35
197	17.50	60	3450	M5H18T36TSC	M5H18T36TSC6036	1.42

* Consult Dodge Engineering for thermal considerations of application

Class II, 1.4 service factor

Output RPM	Ratio	Class 2 motor Hp	Motor speed	Part number	Std C-Face Gearmotor Part number	Severe duty C-Face Gearmotor Part number	Service factor
24	71.98	10	1750	M5H72T21C	M5H72T21C1018	M5H72T21C1018CP	1.92
27	64.74	10	1750	M5H65T21C	M5H65T21C1018	M5H65T21C1018CP	2.08
29	59.73	15	1750	M5H60T25C	M5H60T25C1518	M5H60T25C1518CP	1.53
35	50.61	15	1750	M5H51T25C	M5H51T25C1518	M5H51T25C1518CP	1.78
36	47.99	15	1750	M5H48T25C	M5H48T25C1518	M5H48T25C1518CP	1.88
41	43.16	20	1750	M5H43T25C	M5H43T25C2018	M5H43T25C2018CP	1.55
44	39.82	20	1750	M5H40T25C	M5H40T25C2018	M5H40T25C2018CP	1.65
48	71.98	25	3450	M5H72T28TSC	M5H72T28TSC2536	M5H72T28TSC2536CP	1.43
52	33.74	25	1750	M5H34T28C	M5H34T28C2518	M5H34T28C2518CP	1.55
53	64.74	25	3450	M5H65T28TSC	M5H65T28TSC2536	M5H65T28TSC2536CP	1.58
58	59.73	30	3450	M5H60T28TSC	M5H60T28TSC3036	M5H60T28TSC3036CP	1.43
60	29.41	30	1750	M5H29T28C	M5H29T28C3018	M5H29T28C3018CP	1.45
68	50.61	30	3450	M5H51T28TSC	M5H51T28TSC3036	M5H51T28TSC3036CP	1.66
70	25.05	30	1750	M5H25T28C	M5H25T28C3018	M5H25T28C3018CP	1.68
72	47.99	30	3450	M5H48T28TSC	M5H48T28TSC3036	M5H48T28TSC3036CP	1.73
80	43.16	30	3450	M5H43T28TSC	M5H43T28TSC3036	M5H43T28TSC3036CP	1.90
82	21.35	40	1750	M5H21T32C	M5H21T32C4018	M5H21T32C4018CP	1.46
87	39.82	40	3450	M5H40T32TSC	M5H40T32TSC4036	M5H40T32TSC4036CP	1.50
100	17.50	40	1750	M5H18T32C	M5H18T32C4018	M5H18T32C4018CP	1.62
102	33.74	40	3450	M5H34T32TSC	M5H34T32TSC4036	M5H34T32TSC4036CP	1.64
117	29.41	40	3450	M5H29T32TSC	M5H29T32TSC4036	M5H29T32TSC4036CP	1.77
125	14.05	40	1750	M5H14T32C	M5H14T32C4018	M5H14T32C4018CP	1.62
138	25.05	50	3450	M5H25T32TSC	M5H25T32TSC5036	M5H25T32TSC5036CP	1.55
162	21.35	50	3450	M5H21T32TSC	M5H21T32TSC5036	M5H21T32TSC5036CP	1.62
197	17.50	50	3450	M5H18T32TSC	M5H18T32TSC5036	M5H18T32TSC5036CP	1.71

*+ Severe duty gearmotor packages are designed for class 2 service and come with a CECF severe duty motor attached
For reducer dimensions and accessories, see pages G1-48 through G1-73.

MTA6307H

MTA EZ Selection Tables

Class I - 1.0 service factor

Output RPM	Ratio	Class 1 motor Hp	Motor speed	Part number	C-Face Gearmotor Part number	Service factor
22	78.53	20	1750	M6H79T25C	M6H79T25C2018	1.18
26	66.92	25	1750	M6H67T28C	M6H67T28C2518	1.10
30	59.05	30	1750	M6H59T28C	M6H59T28C3018	1.05
33	52.35	30	1750	M6H52T28C	M6H52T28C3018	1.14
35	50.26	30	1750	M6H50T28C	M6H50T28C3018	1.21
39	44.61	30	1750	M6H45T28C	M6H45T28C3018	1.33
44	78.53	40	3450	M6H79T32TSC	M6H79T32TSC4036	1.12
44	39.37	40	1750	M6H39T32C	M6H39T32C4018	1.12
52	66.92	50	3450	M6H67T32TSC	M6H67T32TSC5036	1.04
52	33.51	50	1750	M6H34T32C	M6H34T32C5018	1.04
58	59.05	50	3450	M6H59T32TSC	M6H59T32TSC5036	1.15
60	29.03	50	1750	M6H29T32C	M6H29T32C5018	1.19
66	52.35	60	3450	M6H52T36TSC	M6H52T36TSC6036	1.08
69	50.26	60	3450	M6H50T36TSC	M6H50T36TSC6036	1.12
72	24.43	60	1750	M6H24T36C	M6H24T36C6018	1.16
77	44.61	60	3450	M6H45T36TSC	M6H45T36TSC6036	1.24
79	22.04	60	1750	M6H22T36C	M6H22T36C6018	1.27
88	39.37	75*	3450	M6H39T36TSC	M6H39T36TSC7536	1.11
92	18.95	75*	1750	M6H19T36C	M6H19T36C7518	1.15
103	33.51	75*	3450	M6H34T36TSC	M6H34T36TSC7536	1.26
119	29.03	75*	3450	M6H29T36TSC	M6H29T36TSC7536	1.41
123	14.24	75*	1750	M6H14T36C	M6H14T36C7518	1.15
141	24.43	75*	3450	M6H24T36TSC	M6H24T36TSC7536	1.60
157	22.04	75*	3450	M6H22T36TSC	M6H22T36TSC7536	1.72

* Consult Dodge Engineering for thermal considerations of application

Class II, 1.4 service factor

Output RPM	Ratio	Class 2 motor Hp	Motor speed	Part number	Std C-Face Gearmotor Part number	Severe duty C-Face Gearmotor Part number	Service factor
22	78.53	15	1750	M6H79T25C	M6H79T25C1518	M6H79T25C1518CP	1.57
26	66.92	15	1750	M6H67T25C	M6H67T25C1518	M6H67T25C1518CP	1.84
30	59.05	20	1750	M6H59T25C	M6H59T25C2018	M6H59T25C2018CP	1.57
33	52.35	20	1750	M6H52T25C	M6H52T25C2018	M6H52T25C2018CP	1.72
35	50.26	25	1750	M6H50T28C	M6H50T28C2518	M6H50T28C2518CP	1.45
39	44.61	25	1750	M6H45T28C	M6H45T28C2518	M6H45T28C2518CP	1.59
44	78.53	30	3450	M6H79T28TSC	M6H79T28TSC3036	M6H79T28TSC3036CP	1.49
44	39.37	30	1750	M6H39T28C	M6H39T28C3018	M6H39T28C3018CP	1.49
52	66.92	30	3450	M6H67T28TSC	M6H67T28TSC3036	M6H67T28TSC3036CP	1.74
52	33.51	30	1750	M6H34T28C	M6H34T28C3018	M6H34T28C3018CP	1.74
58	59.05	40	3450	M6H59T32TSC	M6H59T32TSC4036	M6H59T32TSC4036CP	1.44
60	29.03	40	1750	M6H29T32C	M6H29T32C4018	M6H29T32C4018CP	1.48
66	52.35	40	3450	M6H52T32TSC	M6H52T32TSC4036	M6H52T32TSC4036CP	1.62
69	50.26	40	3450	M6H50T32TSC	M6H50T32TSC4036	M6H50T32TSC4036CP	1.68
72	24.43	50	1750	M6H24T32C	M6H24T32C5018	M6H24T32C5018CP	1.40
77	44.61	50	3450	M6H45T32TSC	M6H45T32TSC5036	M6H45T32TSC5036CP	1.49
79	22.04	50	1750	M6H22T32C	M6H22T32C5018	M6H22T32C5018CP	1.52
88	39.37	50	3450	M6H39T32TSC	M6H39T32TSC5036	M6H39T32TSC5036CP	1.66
92	18.95	60	1750	M6H19T36C	M6H19T36C6018	M6H19T36C6018CP	1.43
103	33.51	60	3450	M6H34T36TSC	M6H34T36TSC6036	M6H34T36TSC6036CP	1.57
119	29.03	60	3450	M6H29T36TSC	M6H29T36TSC6036	M6H29T36TSC6036CP	1.75
123	14.24	60	1750	M6H14T36C	M6H14T36C6018	M6H14T36C6018CP	1.43
141	24.43	75*	3450	M6H24T36TSC	M6H24T36TSC7536	M6H24T36TSC7536CP	1.60
157	22.04	75*	3450	M6H22T36TSC	M6H22T36TSC7536	M6H22T36TSC7536CP	1.72

+ Severe duty gearmotor packages are designed for class 2 service and come with a CECP severe duty motor attached
For reducer dimensions and accessories, see pages G1-48 through G1-73.

MTA7315H

MTA EZ Selection Tables

Class I - 1.0 service factor

Output RPM	Ratio	Class 1 motor Hp	Motor speed	Part number	C-Face Gearmotor Part number	Service factor
23	76.46	30	1750	M7H76T28C	M7H76T28C3018	1.22
26	66.57	40	1750	M7H67T32C	M7H67T32C4018	1.04
30	57.58	40	1750	M7H58T32C	M7H58T32C4018	1.18
34	50.97	50	1750	M7H51T32C	M7H51T32C5018	1.08
39	44.38	60	1750	M7H44T36C	M7H44T36C6018	1.02
45	76.46	60	3450	M7H76T36TSC	M7H76T36TSC6036	1.16
46	38.39	60	1750	M7H38T36C	M7H38T36C6018	1.15
52	66.57	75	3450	M7H67T36TSC	M7H67T36TSC7536	1.04
52	33.48	75	1750	M7H33T36C	M7H33T36C7518	1.04
60	57.58	75	3450	M7H58T36TSC	M7H58T36TSC7536	1.18
61	28.65	75	1750	M7H29T36C	M7H29T36C7518	1.20
68	50.97	75	3450	M7H51T36TSC	M7H51T36TSC7536	1.32
68	25.66	75	1750	M7H26T36C	M7H26T36C7518	1.32
78	44.38	100*	3450	M7H44T405TSC	–	1.12
80	21.74	100*	1750	M7H22T405C	M7H22T405C10018	1.15
90	38.39	100*	3450	M7H38T405TSC	–	1.28
93	18.77	100*	1750	M7H19T405C	M7H19T405C10018	1.29
103	33.48	100*	3450	M7H33T405TSC	–	1.42
120	28.65	100*	3450	M7H29T405TSC	–	1.62
124	14.11	100*	1750	M7H14T405C	M7H14T405C10018	1.29
134	25.66	100*	3450	M7H26T405TSC	–	1.77

* Consult Dodge Engineering for thermal considerations of application

This reducer motor combination requires the largest optional fan available for the 100hp motor.

This is included in the gearmotor packages, but customers using other motors need to add this for extended thermal capacity

+ Severe duty gearmotor packages are designed for class 2 service and come with a CECF severe duty motor attached.

Class II, 1.4 service factor

Output RPM	Ratio	Class 2 motor Hp	Motor speed	Part number	Std C-Face Gearmotor Part number	Severe duty C-Face Gearmotor Part number	Service factor
23	76.46	25	1750	M7H76T28C	M7H76T28C2518	M7H76T28C2518CP	1.47
26	66.57	25	1750	M7H67T28C	M7H67T28C2518	M7H67T28C2518CP	1.67
30	57.58	30	1750	M7H58T28C	M7H58T28C3018	M7H58T28C3018CP	1.58
34	50.97	30	1750	M7H51T28C	M7H51T28C3018	M7H51T28C3018CP	1.79
39	44.38	40	1750	M7H44T32C	M7H44T32C4018	M7H44T32C4018CP	1.52
45	76.46	40	3450	M7H76T32TSC	M7H76T32TSC4036	M7H76T32TSC4036CP	1.74
46	38.39	40	1750	M7H38T32C	M7H38T32C4018	M7H38T32C4018CP	1.73
52	66.57	50	3450	M7H67T32TSC	M7H67T32TSC5036	M7H67T32TSC5036CP	1.56
52	33.48	50	1750	M7H33T32C	M7H33T32C5018	M7H33T32C5018CP	1.56
60	57.58	60	3450	M7H58T36TSC	M7H58T36TSC6036	M7H58T36TSC6036CP	1.48
61	28.65	60	1750	M7H29T36C	M7H29T36C6018	M7H29T36C6018CP	1.50
68	50.97	60	3450	M7H51T36TSC	M7H51T36TSC6036	M7H51T36TSC6036CP	1.64
68	25.66	60	1750	M7H26T36C	M7H26T36C6018	M7H26T36C6018CP	1.65
78	44.38	75	3450	M7H44T36TSC	M7H44T36TSC7536	M7H44T36TSC7536CP	1.49
80	21.74	75	1750	M7H22T36C	M7H22T36C7518	M7H22T36C7518CP	1.53
90	38.39	75	3450	M7H38T36TSC	M7H38T36TSC7536	M7H38T36TSC7536CP	1.70
93	18.77	75	1750	M7H19T36C	M7H19T36C7518	M7H19T36C7518CP	1.73
103	33.48	75	3450	M7H33T36TSC	M7H33T36TSC7536	M7H33T36TSC7536CP	1.87
120	28.65	75	3450	M7H29T36TSC	M7H29T36TSC7536	M7H29T36TSC7536CP	2.16
124	14.11	75	1750	M7H14T36C	M7H14T36C7518	M7H14T36C7518CP	1.73
134	25.66	100*	3450	M7H26T405TSC	–	–	1.77

* Consult Dodge Engineering for thermal considerations of application

This reducer motor combination requires the largest optional fan available for the 100hp motor.

This is included in the gearmotor packages, but customers using other motors need to add this for extended thermal capacity.

+ Severe duty gearmotor packages are designed for class 2 service and come with a CECF severe duty motor attached.

For reducer dimensions and accessories, see pages G1-48 through G1-73.

MTA8407H

MTA EZ Selection Tables

Class I - 1.0 service factor

Output RPM	Ratio	Class 1 motor Hp	Motor speed	Part number	C-Face Gearmotor Part number	Service factor
22	78.80	50	1750	M8H79T32C	M8H79T32C5018	1.02
26	68.53	50	1750	M8H69T32C	M8H69T32C5018	1.16
29	60.13	60	1750	M8H60T36C	M8H60T36C6018	1.08
33	52.53	60	1750	M8H53T36C	M8H53T36C6018	1.24
34	50.85	75	1750	M8H51T36C	M8H51T36C7518	1.01
38	45.69	75	1750	M8H46T36C	M8H46T36C7518	1.12
44	40.09	75	1750	M8H40T36C	M8H40T36C7518	1.28
44	78.80	75	3450	M8H79T36TSC	M8H79T36TSC7536	1.26
50	68.53	100*	3450	M8H69T405TSC	–	1.08
52	33.90	100*	1750	M8H34T405C	M8H34T405C10018	1.10
57	30.76	100*	1750	M8H31T405C	M8H31T405C10018	1.20
57	60.13	100*	3450	M8H60T405TSC	–	1.21
65	26.82	100*	1750	M8H27T405C	M8H27T405C10018	1.36
66	52.53	100*	3450	M8H53T405TSC	–	1.36
68	50.85	100*	3450	M8H51T405TSC	–	1.41
76	45.69	100*	3450	M8H46T405TSC	–	1.55
77	22.77	100*	1750	M8H23T405C	M8H23T405C10018	1.56
86	40.09	100*	3450	M8H40T405TSC	–	1.74
100	17.43	100*	1750	M8H17T405C	M8H17T405C10018	2.02
102	33.90	100*	3450	M8H34T405TSC	–	2.04
112	30.76	100*	3450	M8H31T405TSC	–	2.21
126	13.93	100*	1750	M8H14T405C	M8H14T405C10018	2.02

* Consult Dodge Engineering for thermal considerations of application

Class II, 1.4 service factor

Output RPM	Ratio	Class 2 motor Hp	Motor speed	Part number	Std C-Face Gearmotor Part number	Severe duty C-Face Gearmotor Part number	Service factor
22	78.80	30	1750	M8H79T28C	M8H79T28C3018	M8H79T28C3018CP	1.69
26	68.53	40	1750	M8H69T32C	M8H69T32C4018	M8H69T32C4018CP	1.45
29	60.13	40	1750	M8H60T32C	M8H60T32C4018	M8H60T32C4018CP	1.62
33	52.53	50	1750	M8H53T32C	M8H53T32C5018	M8H53T32C5018CP	1.49
34	50.85	50	1750	M8H51T32C	M8H51T32C5018	M8H51T32C5018CP	1.52
38	45.69	60	1750	M8H46T36C	M8H46T36C6018	M8H46T36C6018CP	1.40
44	40.09	60	1750	M8H40T36C	M8H40T36C6018	M8H40T36C6018CP	1.60
44	78.80	60	3450	M8H79T36TSC	M8H79T36TSC6036	M8H79T36TSC6036CP	1.57
50	68.53	75	3450	M8H69T36TSC	M8H69T36TSC7536	M8H69T36TSC7536CP	1.45
52	33.90	75	1750	M8H34T36C	M8H34T36C7518	M8H34T36C7518CP	1.47
57	30.76	75	1750	M8H31T36C	M8H31T36C7518	M8H31T36C7518CP	1.60
57	60.13	75	3450	M8H60T36TSC	M8H60T36TSC7536	M8H60T36TSC7536CP	1.61
65	26.82	75	1750	M8H27T36C	M8H27T36C7518	M8H27T36C7518CP	1.81
66	52.53	75	3450	M8H53T36TSC	M8H53T36TSC7536	M8H53T36TSC7536CP	1.81
68	50.85	100*	3450	M8H51T405TSC	–	M8H51T405TSC10036P	1.41
76	45.69	100*	3450	M8H46T405TSC	–	M8H46T405TSC10036P	1.55
77	22.77	100	1750	M8H23T405C	M8H23T405C10018	M8H23T405C10018CP	1.56
86	40.09	100*	3450	M8H40T405TSC	–	M8H40T405TSC10036P	1.74
100	17.43	100*	1750	M8H17T405C	M8H17T405C10018	M8H17T405C10018CP	2.02
102	33.90	100*	3450	M8H34T405TSC	–	M8H34T405TSC10036P	2.04
112	30.76	100*	3450	M8H31T405TSC	–	M8H31T405TSC10036P	2.21
126	13.93	100*	1750	M8H14T405C	M8H14T405C10018	M8H14T405C10018CP	2.02

* Consult Dodge Engineering for thermal considerations of application

This reducer motor combination requires the largest optional fan available for the 100hp motor.

This is included in the gearmotor packages, but customers using other motors need to add this for extended thermal capacity.

+ Severe duty gearmotor packages are designed for class 2 service and come with a CECP severe duty motor attached.

For reducer dimensions and accessories, see pages G1-48 through G1-73.

Notes

Shaft Mounted Reducer & Accessories

MTA2115

Shaft mounted reducer

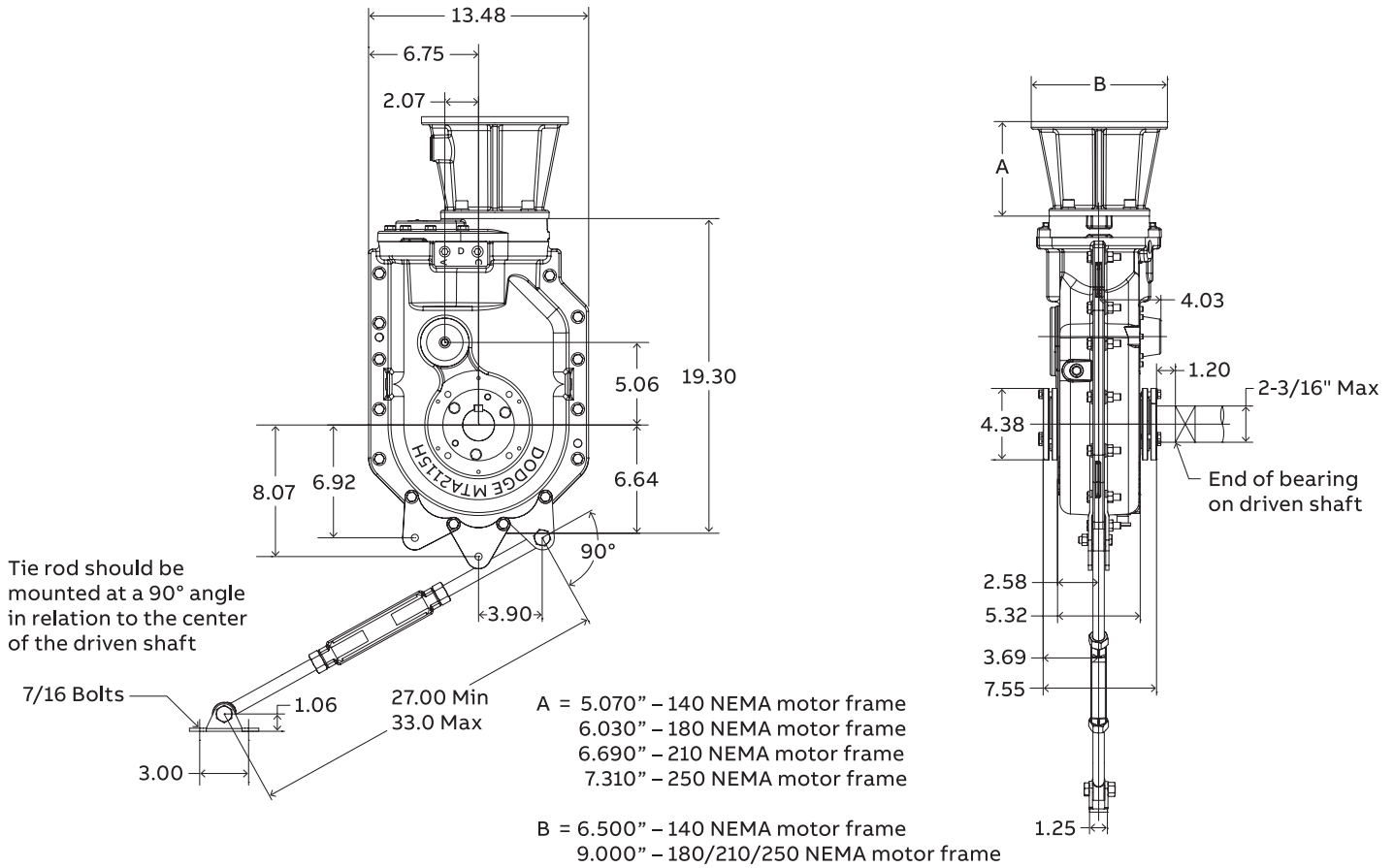
Reference Guide

Motorized Torque-Arm II

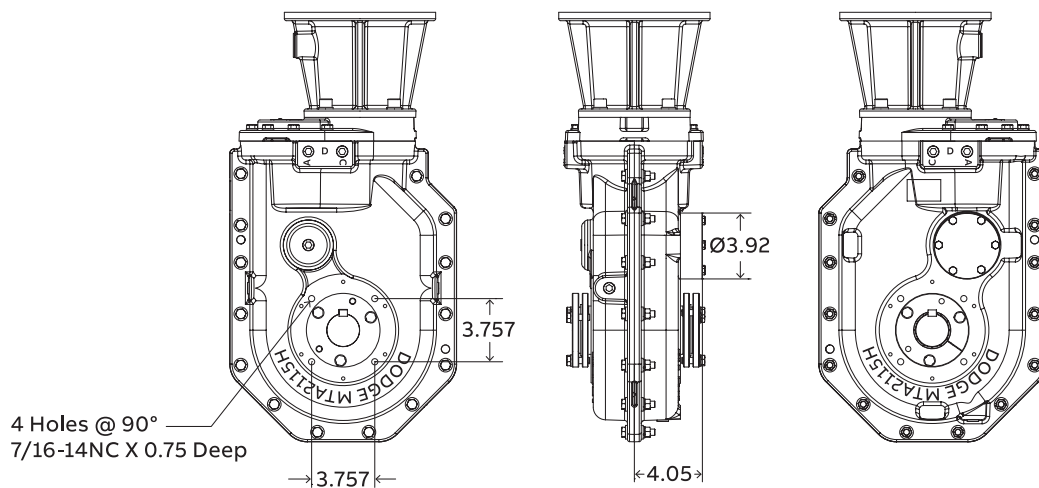
Torque-Arm II

Torque-Arm

Bulk Material Handling



Reducer with backstop



All dimensions are in inches.

MTA2115

Shaft mounted accessories

MTA2115 C-Face reducer weights with adapter (lbs)

Adapter size								
Reducer	180	210	250	280	280TSC	320	360	320TSC & 360TSC
Weight (lbs)	155	160	165	–	–	–	–	–

MTA2115H accessories

Description	Part number	Weight lbs.
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 dessicant breather kit	964372	0.2
MTA2-8 Vertical Position D breather kit	472300	3.0
Dodge OPTIFY sensor	750000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight lbs.	Split	Weight lbs.
MTA2115H	902142	0.6	902143	0.5

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.

TA2115H tapered bushing kits (5) (6)

Bushing size – Standard shaft (7) bushing kit	Part number	Weight lbs.	Shaft keyseat required (9) (10)
TA2115TB x 2-3/16	902020	4.7	1/2 x 1/4 x 7.80
TA2115TB x 2	902022	5.2	1/2 x 1/4 x 7.80
TA2115TB x 1-15/16 ▲	902023	5.4	1/2 x 1/4 x 7.80
TA2115TB x 1-7/8	902024	5.6	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 1-5/8 ∅	902027	6.0	3/8 x 3/16 x 7.80
TA2115TB x 1-1/2 ∅	902028	6.4	3/8 x 3/16 x 7.80
TA2115TB x 1-7/16 ∅	902029	6.4	3/8 x 3/16 x 7.80
TA2115TB x 1-3/8 ∅	902060	6.5	5/16 x 5/32 x 7.80
TA2115TB x 1-5/16 ∅	902061	6.7	5/16 x 5/32 x 7.80

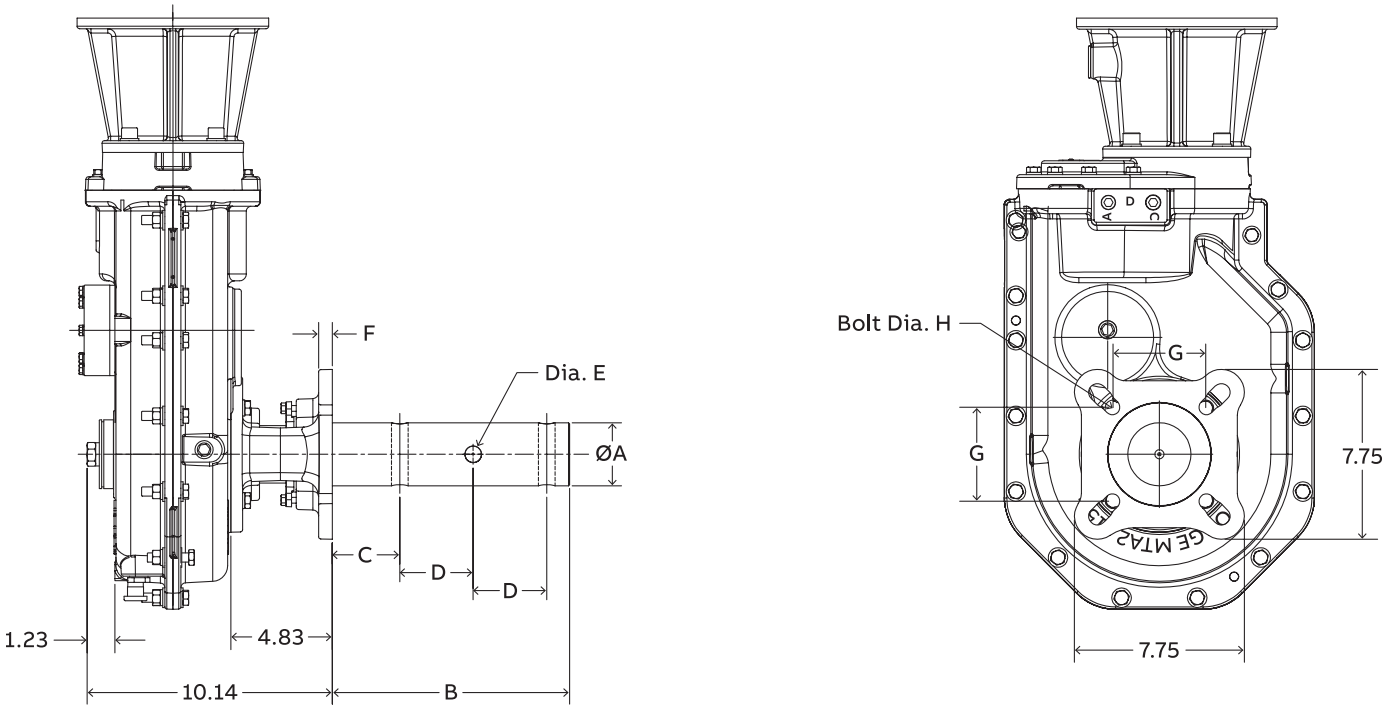
- ▲ AGMA maximum bore size
- ∅ Check driven shaft strength against torque requirements and assembly weight
- (5) Bushing kit required to mount TA II reducer to driven shaft
- (6) Bushing kit is not required to mount TA II reducer on screw conveyor drive shaft in a screw conveyor application
- (7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware, and key
- (8) Short shaft bushing kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.
- (9) Minimum keyseat and shaft length required to mount reducer with bushing kit
- (10) Always check the driven shaft and key for strength

TA2115H short shaft tapered bushing kits

Bushing Size – Short shaft bushing kit	Part number (8)	Weight lbs.	Shaft keyseat required (9)(10)
–	–	–	–
–	–	–	–
TA2115TBS x 1-15/16	902030	5.6	1/2 x 1/4 x 4.80
TA2115TBS x 1-7/8	902031	5.9	1/2 x 1/4 x 4.80
TA2115TBS x 1-3/4	902032	6	3/8 x 3/16 x 4.80
TA2115TBS x 1-11/16	902033	6.6	3/8 x 3/16 x 4.80
TA2115TBS x 1-5/8	902034	6.8	3/8 x 3/16 x 4.80
TA2115TBS x 1-1/2	902035	7.3	3/8 x 3/16 x 4.80
TA2115TBS x 1-7/16	902036	7.4	3/8 x 3/16 x 4.80
TA2115TBS x 1-3/8	902037	7.6	5/16 x 5/32 x 4.80
TA2115TBS x 1-5/16	902038	7.8	5/16 x 5/32 x 4.80

MTA2115

Screw conveyor reducer



MTA2115H screw conveyor drive dimensions

Screw Dia	Drive shaft Dia A	Dimensions						
		B	C	D	Hole dia E	F	G	Bolt dia H
6, 9	1-1/2	9.00	2.13	3.00	17/32	0.75	4.00	1/2-13
9, 12	2	9.00	2.13	3.00	21/32	0.75	5.13	5/8
12, 14	2-7/16	9.69	2.75	3.00	21/32	0.75	5.63	5/8
12, 14, 16,	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 lbs.
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 lbs.
TA2115SCA Adapter and hardware kit (2)	902070	19.2
TA2115SCP Adjustable packing kit (3)	902071	1.2
TA2115SCS x 1-1/2 Drive shaft	902072	15.4
TA2115SCS x 2 Drive shaft	902073	18.6
TA2115SCS x 2-7/16 Drive shaft	902074	23.3
TA2115SCS x 3 Drive shaft	902075	29.5
TA2115SCS x 1-1/2 Stainless steel drive shaft	902080	15.4
TA2115SCS x 2 Stainless steel drive shaft	902081	18.6
TA2115SCS x 2-7/16 Stainless steel drive shaft	902082	23.3
TA2115SCS x 3 Stainless steel drive shaft	902083	29.5
Dodge OPTIFY sensor	750000	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 drive shaft is a shaft only. Hardware is stocked with the adapter and hardware kit
- (5) A 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.

MTA3203

Shaft mounted reducer

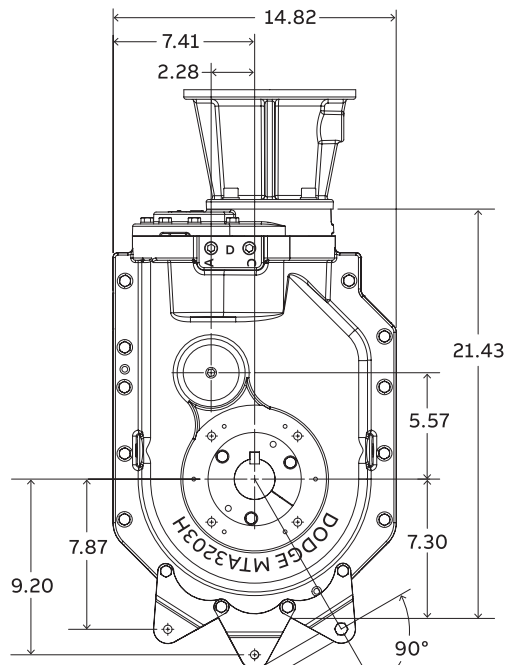
Reference Guide

Motorized Torque-Arm II

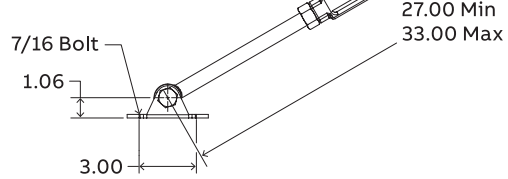
Torque-Arm II

Torque-Arm

Bulk Material Handling

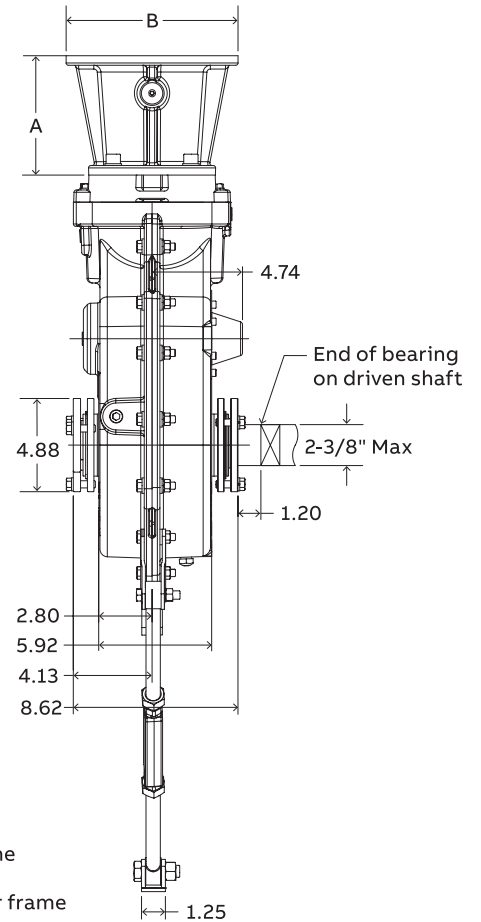


Tie rod should be mounted at a 90° angle in relation to the center of the driven shaft

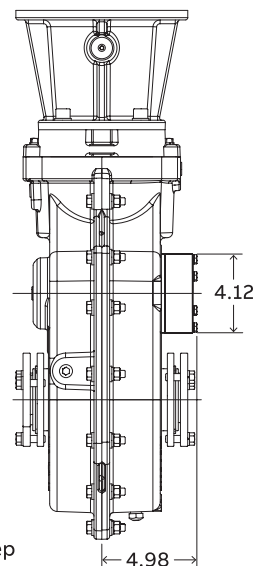
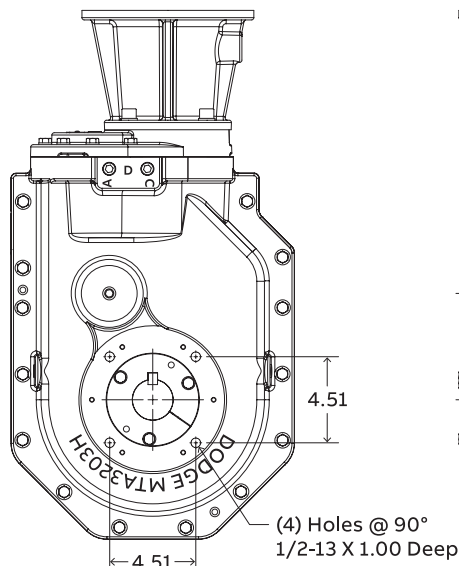


A = 6.030" - 180 NEMA motor frame
6.690" - 210 NEMA motor frame
7.310" - 250 NEMA motor frame
6.425" - 280TSC NEMA motor frame

B = 9.000" - 180/210/250 NEMA motor frame
11.00" - 280TSC NEMA motor frame



Reducer with backstop



All dimensions are in inches.

MTA3203

Shaft mounted accessories

MTA3203 C-Face reducer weights with adapter (lbs)

Adapter size										
Reducer	180	210	250	280	280TSC	320	360	32/36TSC	405	405TSC
Weight (lbs)	210	215	220	–	245	–	–	–	–	–

MTA3203H accessories

Description	Part number	Weight lbs.
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 dessicant breather kit	964372	0.2
MTA2-8 Vertical Position D breather kit	472300	3.0
Dodge OPTIFY sensor	750000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight lbs.	Split	Weight lbs.
MTA3203H	903142	.6	903143	.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.

MTA3203H tapered bushing kits (5) (6)

Bushing size standard shaft bushing kit	Part number (7)	Weight lbs.	Shaft keyseat required (9) (10)
TA3203TB x 2-3/8	903020	6.1	5/8 x 5/16 x 8.55
TA3203TB x 2-1/4	903021	6.2	1/2 x 1/4 x 8.55
TA3203TB x 2-3/16 ▲	903022	6.8	1/2 x 1/4 x 8.55
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
TA3203TB x 1-7/8 ∅	903026	8.0	1/2 x 1/4 x 8.55
TA3203TB x 1-3/4 ∅	903027	8.0	3/8 x 3/16 x 8.55
TA3203TB x 1-11/16 ∅	903028	8.2	3/8 x 3/16 x 8.55
TA3203TB x 1-5/8 ∅	903029	8.4	3/8 x 3/16 x 8.55
TA3203TB x 1-1/2 ∅	903060	8.8	3/8 x 3/16 x 8.55
TA3203TB x 1-7/16 ∅	903061	8.8	3/8 x 3/16 x 8.55

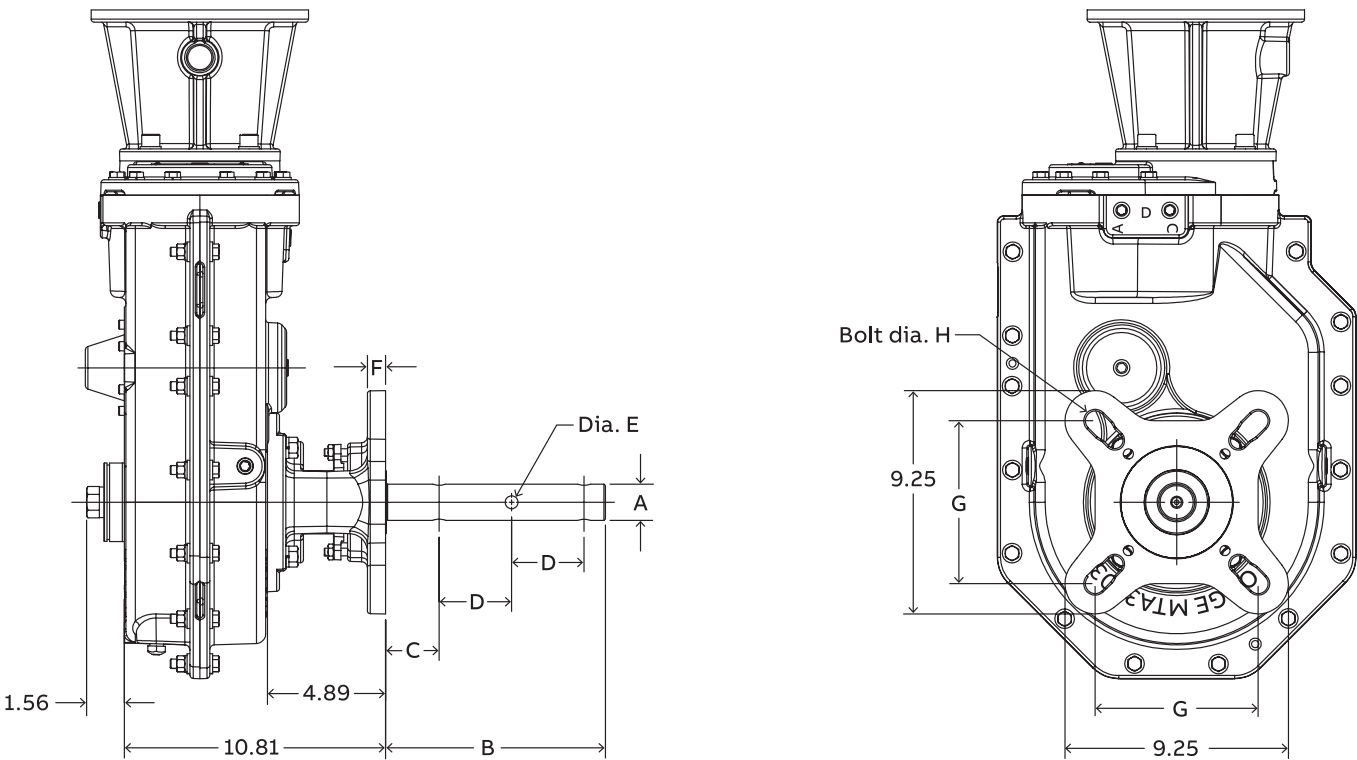
- ▲ AGMA maximum bore size
- ∅ Check driven shaft strength against torque requirements and assembly weight
- (5) Bushing kit required to mount TA II reducer to driven shaft
- (6) Bushing kit is not required to mount TA II reducer on screw conveyor drive shaft in a screw conveyor application
- (7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware, and key
- (8) Short shaft bushing kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.
- (9) Minimum keyseat and shaft length required to mount reducer with bushing kit
- (10) Always check the driven shaft and key for strength

MTA3203H short shaft tapered bushing kits

Bushing size short shaft bushing kit	Part number (8)	Weight lbs.	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
TA3203TBS x 1-7/8	903034	8.7	1/2 x 1/4 x 5.46
TA3203TBS x 1-3/4	903035	9.0	3/8 x 3/16 x 5.46
TA3203TBS x 1-11/16	903036	9.3	3/8 x 3/16 x 5.46
TA3203TBS x 1-5/8	903037	9.6	3/8 x 3/16 x 5.46
TA3203TBS x 1-1/2	903038	9.9	3/8 x 3/16 x 5.46
TA3203TBS x 1-7/16	903039	10.0	3/8 x 3/16 x 5.46

MTA3203

Screw conveyor reducer



MTA3203H screw conveyor drive dimensions

Screw Dia	Drive shaft Dia A	Dimensions			Hole dia E	F	G	Bolt dia H
		B	C	D				
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 lbs.
MTA3203H	903142	.6

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.

MTA3203H accessories for screw conveyor drives (4) (5)

Description	Part number	Weight lbs.
TA3203SCA Adapter and hardware kit (2)	903070	22.0
TA3203SCP Adjustable packing kit (3)	903071	1.4
TA3203SCS x 1-1/2 Drive shaft	903072	19.3
TA3203SCS x 2 Drive shaft	903073	22.6
TA3203SCS x 2-7/16 Drive shaft	903074	27.2
TA3203SCS x 3 Drive shaft	903075	33.6
TA3203SCS x 3-7/16 Drive shaft	903076	44.8
TA3203SCS x 1-1/2 Stainless steel drive shaft	903080	19.3
TA3203SCS x 2 Stainless steel drive shaft	903081	22.6
TA3203SCS x 2-7/16 Stainless steel drive shaft	903082	27.2
TA3203SCS x 3 Stainless steel drive shaft	903083	33.6
TA3203SCS x 3-7/16 Stainless steel drive shaft	903084	44.8
Dodge OPTIFY sensor	750000	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 Drive shaft is a shaft only. Hardware is stocked with the adapter and hardware kit
- (5) A 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.

Reference Guide

Motorized Torque-Arm II

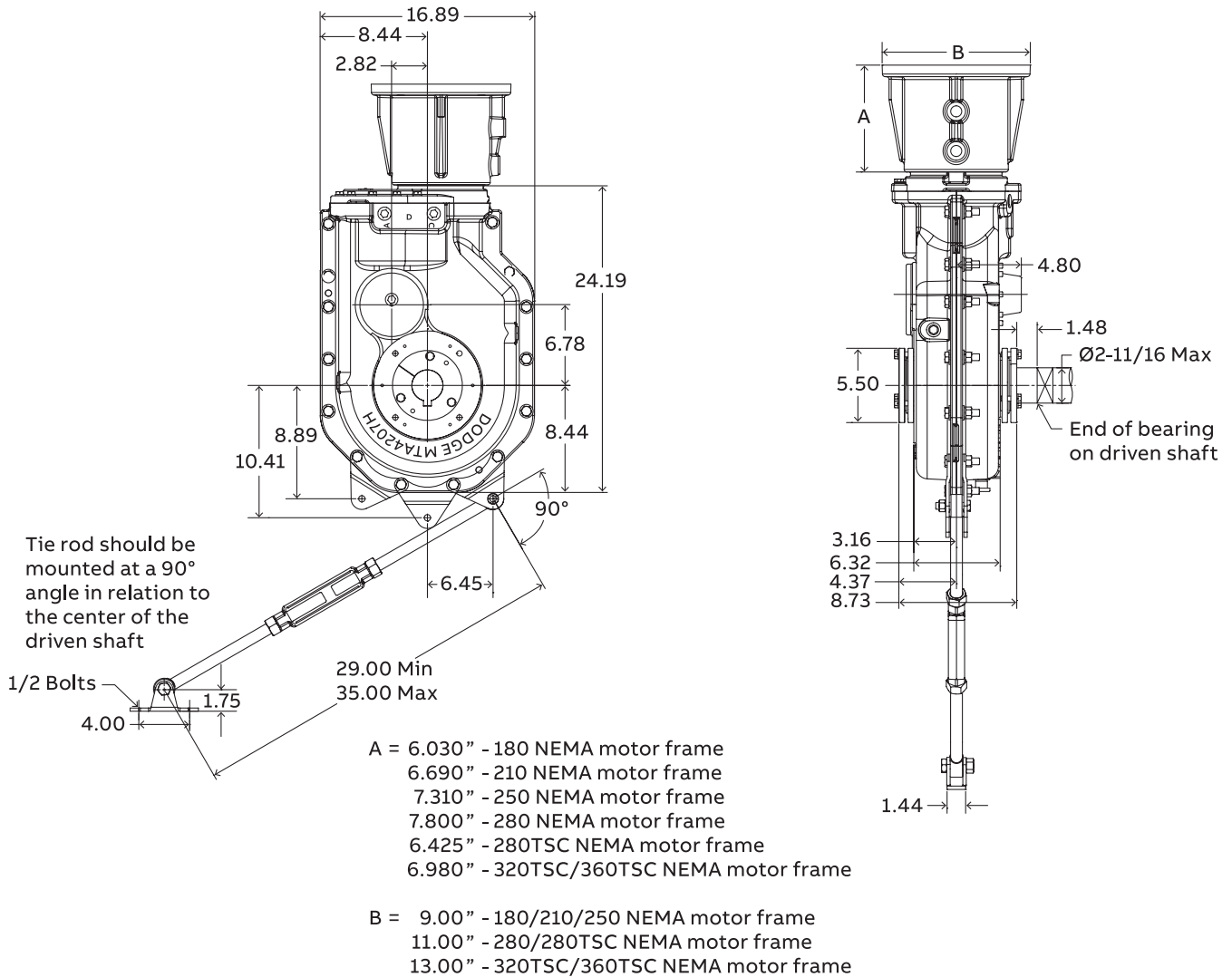
Torque-Arm II

Torque-Arm

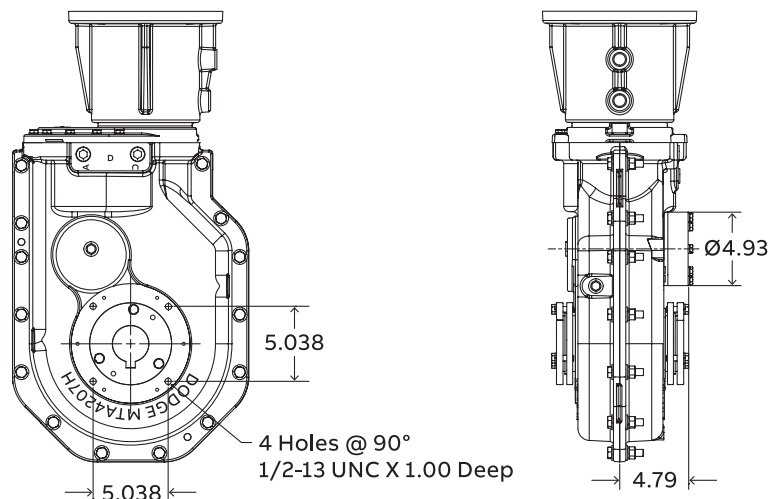
Bulk Material Handling

MTA4207

Shaft mounted reducer



Reducer with backstop



All dimensions are in inches.

MTA4207

Shaft mounted accessories

MTA4207 C-Face reducer weights with adapter (lbs)

Adapter size								
Reducer	180	210	250	280	280TSC	320	360	320TSC & 360TSC
Weight (lbs)	270	275	280	300	300	–	–	320

MTA4207H accessories

Description	Part number	Weight lbs.
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 dessicant breather kit	964364	0.8
MTA2-8 Vertical Position D breather kit	472300	3.0
Dodge OPTIFY sensor	750000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight lbs.	Split	Weight lbs.
MTA4207H	904142	1.2	904143	1.0

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.

TA4207H tapered bushing kits (5) (6)

Bushing size standard shaft bushing kit	Part number (7)	Weight lbs.	Shaft keyseat required (9) (10)
TA4207TB x 2-11/16	904020	9.4	5/8 x 5/16 x 8.93
TA4207TB x 2-1/2	904021	10.6	5/8 x 5/16 x 8.93
TA4207TB x 2-7/16 ▲	904022	10.8	5/8 x 5/16 x 8.93
TA4207TB x 2-3/8	904023	11.3	5/8 x 5/16 x 8.93
TA4207TB x 2-1/4 ∅	904024	11.5	1/2 x 1/4 x 8.93
TA4207TB x 2-3/16 ∅	904025	11.8	1/2 x 1/4 x 8.93
TA4207TB x 2-1/8 ∅	904026	12.2	1/2 x 1/4 x 8.93
TA4207TB x 2 ∅	904027	12.6	1/2 x 1/4 x 8.93
TA4207TB x 1-15/16 ∅	904028	13.0	1/2 x 1/4 x 8.93
TA4207TB x 1-7/8 ∅	904029	13.2	1/2 x 1/4 x 8.93
TA4207TB x 1-3/4 ∅	904030	13.3	3/8 x 3/16 x 8.93
TA4207TB x 1-11/16 ∅	904031	13.5	3/8 x 3/16 x 8.93

TA4207H tapered short shaft bushing kits (5) (6)

Bushing size short shaft bushing kit (8)	Part number	Weight lbs.	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
TA4207TBS x 1-7/8	904039	14.6	1/2 x 1/4 x 5.65
TA4207TBS x 1-3/4	904040	15.0	3/8 x 3/16 x 5.65
TA4207TBS x 1-11/16	904041	15.3	3/8 x 3/16 x 5.65

▲ AGMA maximum bore size

∅ 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 drive shaft in a screw conveyor application

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

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

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

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

MTA4207

Screw conveyor reducer

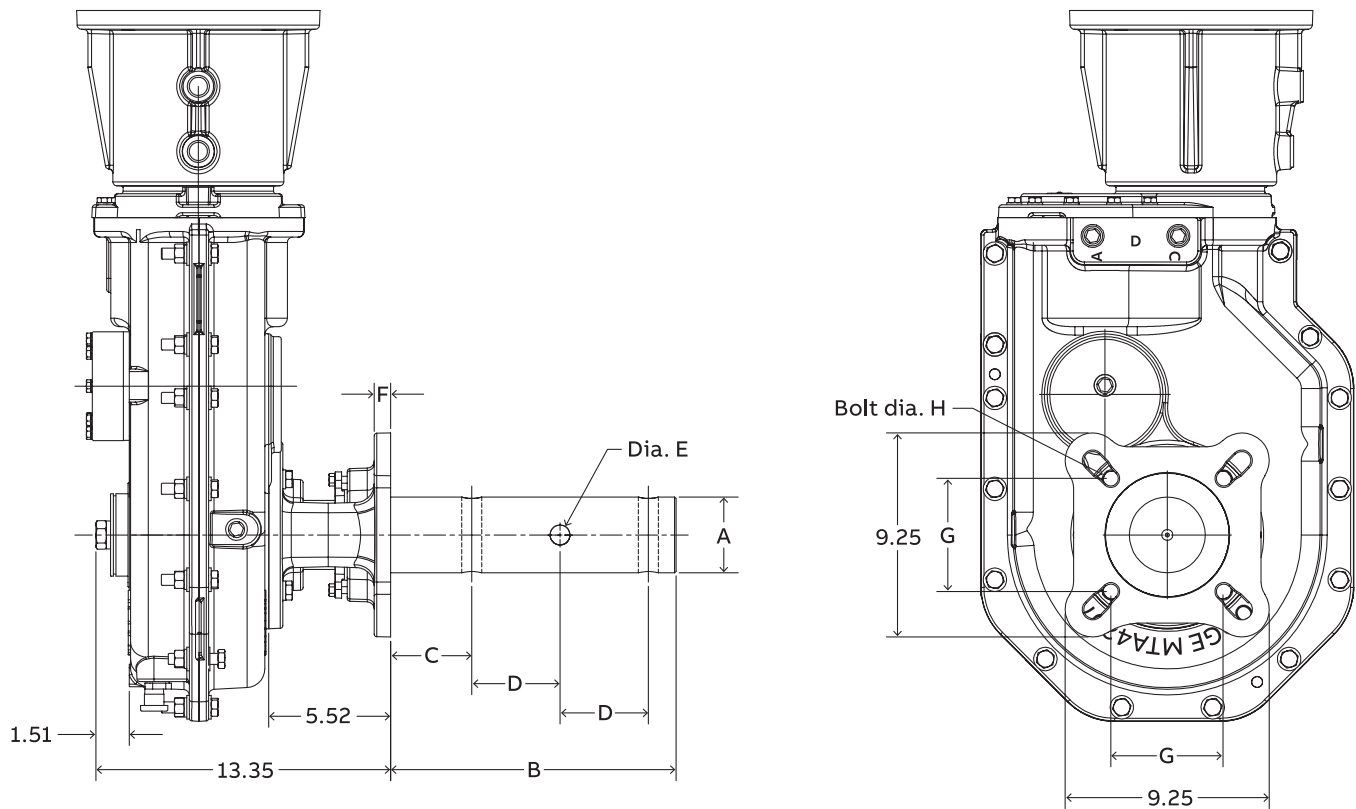
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



MTA4207H screw conveyor drive dimensions

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

All dimensions are in inches.

MTA4207

Screw conveyor accessories

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers	
	Closed	Weight lbs.
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.

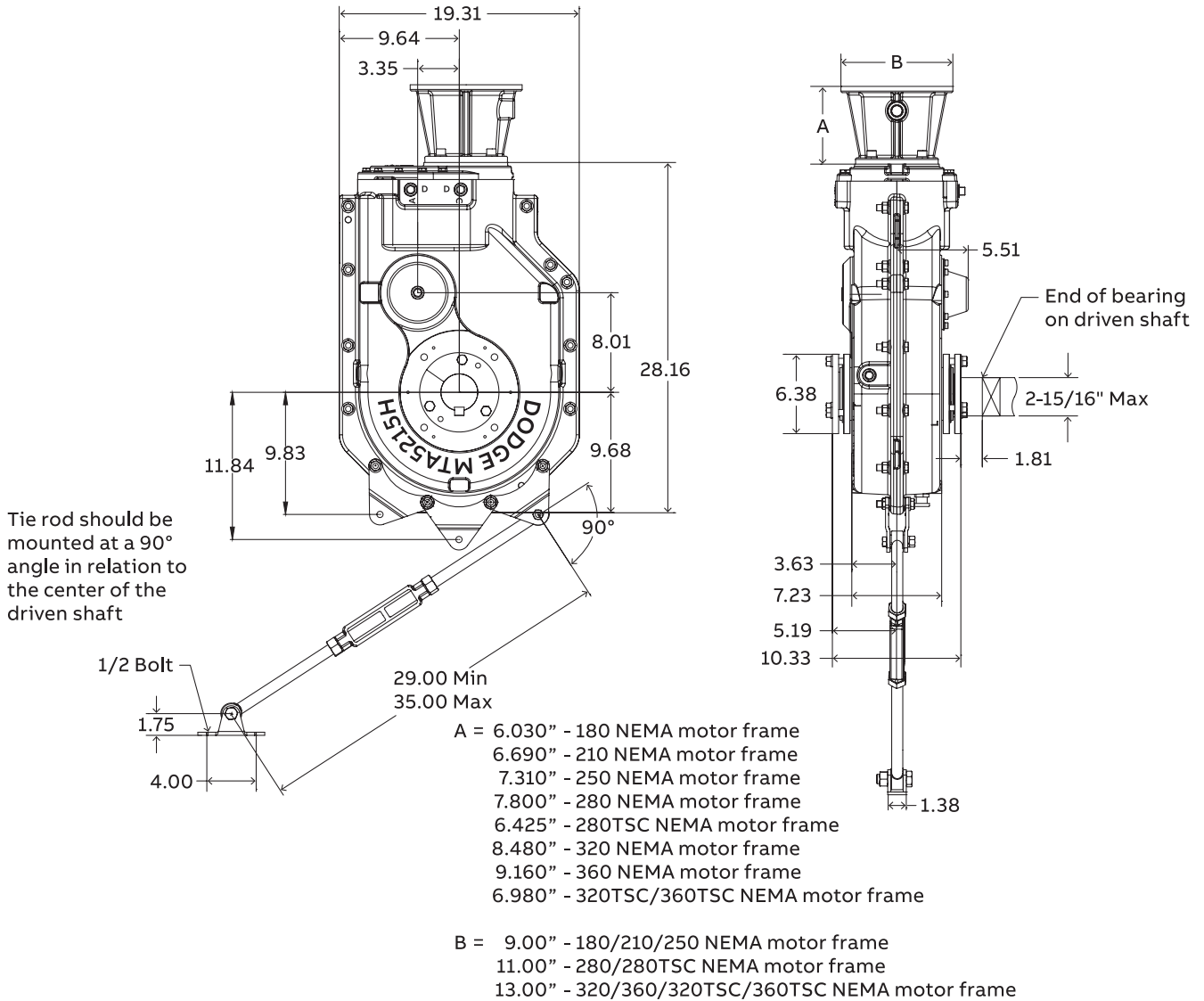
MTA4207H accessories for screw conveyor drives (4) (5)

Description	Part number	Weight lbs.
TA4207SCA Adapter and hardware kit (2)	904070	33.6
TA4207SCP Adjustable packing kit (3)	904071	2.1
TA4207SCS x 2 Drive shaft	904073	29.8
TA4207SCS x 2-7/16 Drive shaft	904074	34.5
TA4207SCS x 3 Drive shaft	904075	40.9
TA4207SCS x 3-7/16 Drive shaft	904076	54.7
TA4207SCS x 2 Stainless steel drive shaft	904081	29.8
TA4207SCS x 2-7/16 Stainless steel drive shaft	904082	34.5
TA4207SCS x 3 Stainless steel drive shaft	904083	40.9
TA4207SCS x 3-7/16 Stainless steel drive shaft	904084	54.7
Dodge OPTIFY sensor	750000	0.5

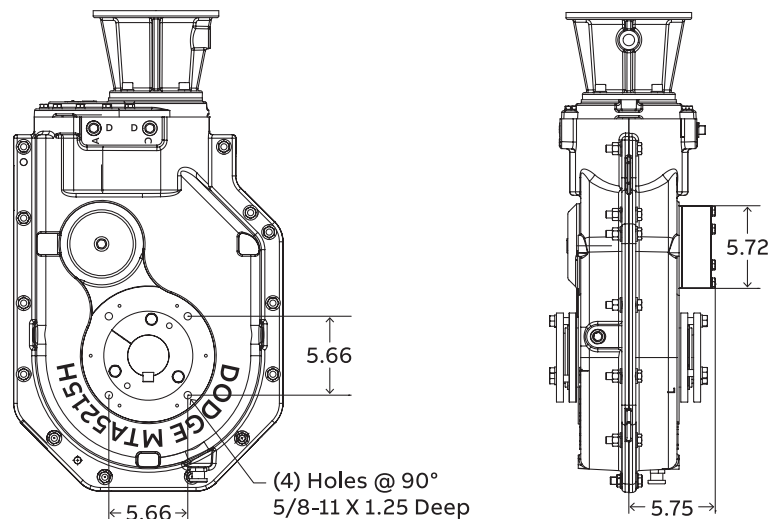
- (2) SCA Adapter and hardware kit includes adapter, mounting wedge, keeper plate, key, seals and hardware
- (3) SCP Adjustable packing kit consists of flange, mounting hardware and braided packing seals
- (4) SCS Drive shaft is a shaft only. Hardware is stocked with the adapter and hardware kit
- (5) A 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.

MTA5215

Shaft mounted reducer



Reducer with backstop



All dimensions are in inches.

MTA5215

Shaft mounted accessories

MTA5215 C-Face reducer weights with adapter (lbs)

Adapter size										
Reducer	180	210	250	280	280TSC	320	360	32/36TSC	405	405TSC
Weight (lbs)	370	375	380	405	405	425	–	425	–	–

MTA5215H accessories

Description	Part number	Weight lbs.
TA5215RA Rod assembly	905109	11.0
TA6307BS Backstop assembly use for MTA5215	906102	11.1
TA4-TA9 Hydra-Lock dessicant breather kit	964364	0.8
MTA2-8 Vertical Position D breather kit	472300	3.0
Dodge OPTIFY sensor	750000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight lbs.	Split	Weight lbs.
MTA5215H & MTA6307H	905142	1.5	905143	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.

MTA5215H tapered bushing kits (5) (6)

Bushing sSize standard shaft bushing kit	Part number (7)	Weight lbs.	Shaft keyseat required (9) (10)
TA5215TB x 3-3/16	905020	13.7	3/4 x 3/8 x 10.34
TA5215TB x 3	905021	15.1	3/4 x 3/8 x 10.34
TA5215TB x 2-15/16 ▲	905022	15.6	3/4 x 3/8 x 10.34
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 ∅	905026	18.1	5/8 x 5/16 x 10.34
TA5215TB x 2-3/8 ∅	905027	18.3	5/8 x 5/16 x 10.34
TA5215TB x 2-1/4 ∅	905028	18.9	1/2 x 1/4 x 10.34
TA5215TB x 2-3/16 ∅	905029	19.1	1/2 x 1/4 x 10.34
TA5215TB x 2-1/8 ∅	905030	19.3	1/2 x 1/4 x 10.34
TA5215TB x 2 ∅	905031	19.9	1/2 x 1/4 x 10.34
TA5215TB x 1-15/16 ∅	905032	20.1	1/2 x 1/4 x 10.34

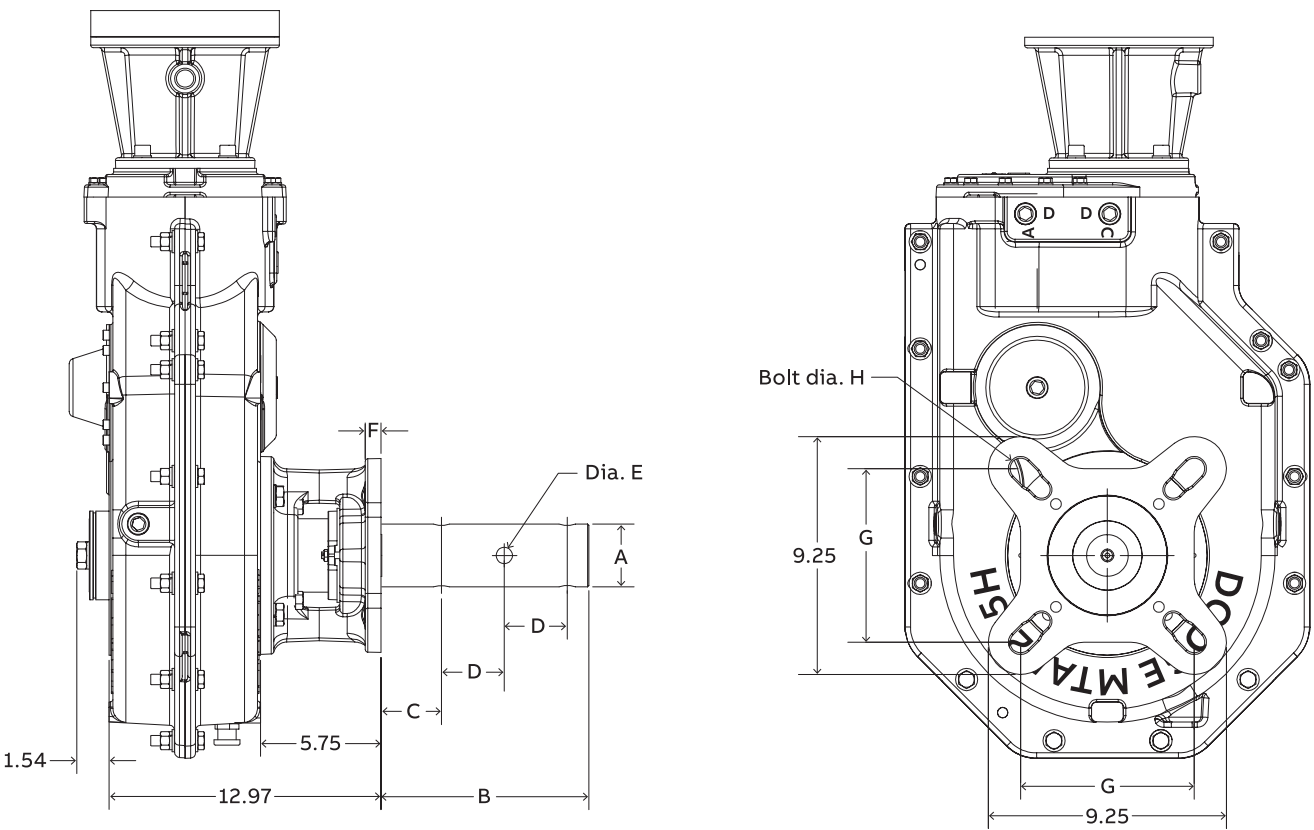
- ▲ AGMA maximum bore size
- ∅ Check driven shaft strength against torque requirements and assembly weight
- (5) Bushing kit required to mount TA II reducer to driven shaft
- (6) Bushing kit is not required to mount TA II reducer on screw conveyor drive shaft in a screw conveyor application
- (7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware, and key
- (8) Short shaft bushing kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.
- (9) Minimum keyseat and shaft length required to mount reducer with bushing kit
- (10) Always check the driven shaft and key for strength

MTA5215H short shaft tapered bushing kits

Bushing size short shaft bushing kit (8)	Part number	Weight lbs.	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
TA5215TBS x 2-3/8	905038	20.5	5/8 x 5/16 x 6.36
TA5215TBS x 2-1/4	905039	21.4	1/2 x 1/4 x 6.36
TA5215TBS x 2-3/16	905040	21.8	1/2 x 1/4 x 6.36
TA5215TBS x 2-1/8	905041	22.2	1/2 x 1/4 x 6.36
TA5215TBS x 2	905042	23.0	1/2 x 1/4 x 6.36
TA5215TBS x 1-15/16	905043	23.4	1/2 x 1/4 x 6.36

MTA5215

Screw conveyor reducer



MTA5215H screw conveyor drive dimensions

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

All dimensions are in inches.

MTA5215

Screw conveyor accessories

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers	
	Closed	Weight
MTA5215H & 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.

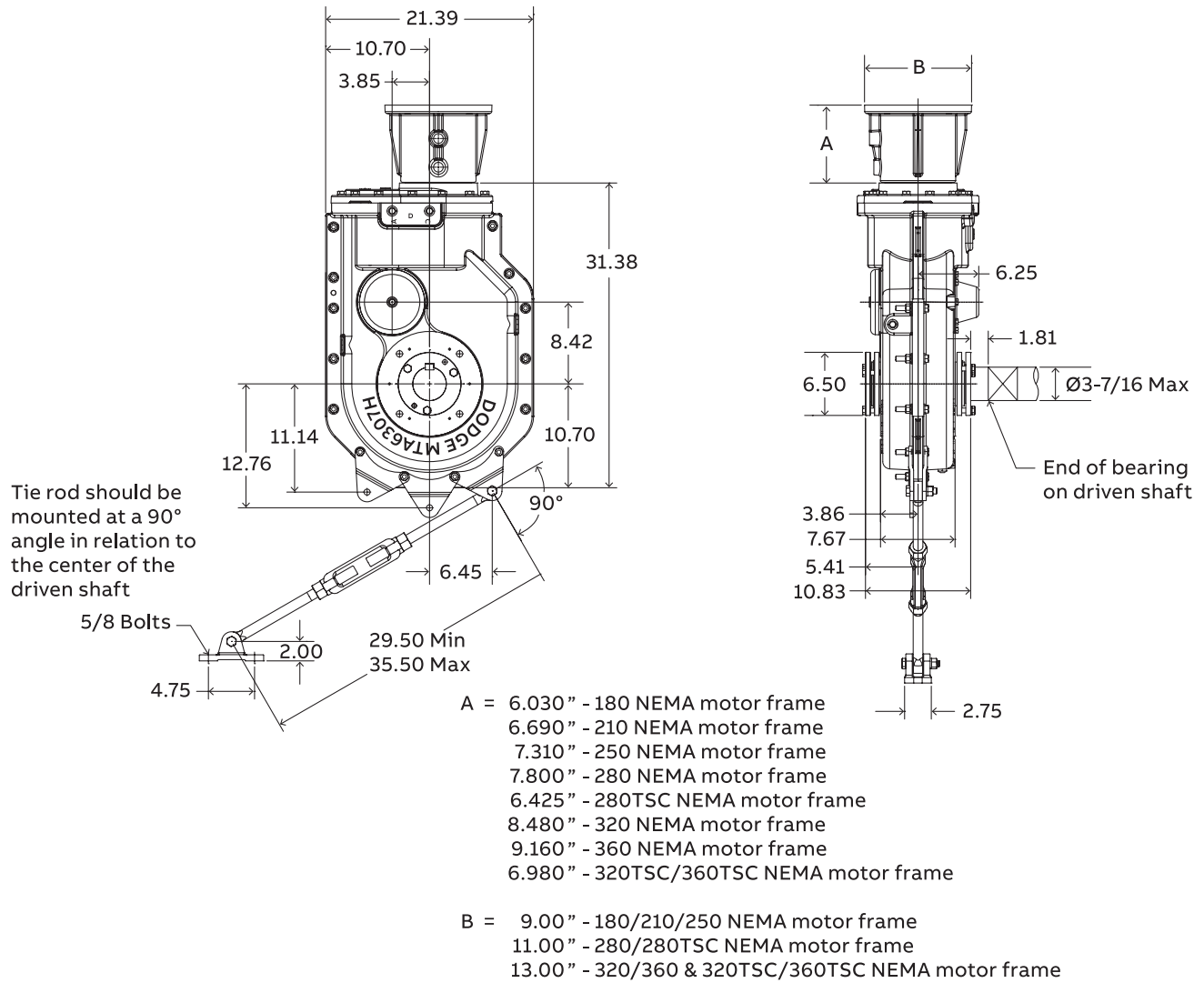
MTA5215H accessories for screw conveyor drives (4) (5)

Description	Part number	Weight lbs.
TA5215SCA Adapter and hardware kit (2)	905070	38.4
TA5215SCP Adjustable packing kit (3)	905071	2.1
TA5215SCS x 2 Drive shaft	905073	39.0
TA5215SCS x 2-7/16 Drive shaft	905074	43.6
TA5215SCS x 3 Drive shaft	905075	50.0
TA5215SCS x 3-7/16 Drive shaft	905076	63.9
TA5215SCS x 2 Stainless steel drive shaft	905081	39.0
TA5215SCS x 2-7/16 Stainless steel drive shaft	905082	43.6
TA5215SCS x 3 Stainless steel drive shaft	905083	50.0
TA5215SCS x 3 -7/16 Stainless steel drive shaft	905084	63.9
Dodge OPTIFY sensor	750000	0.5

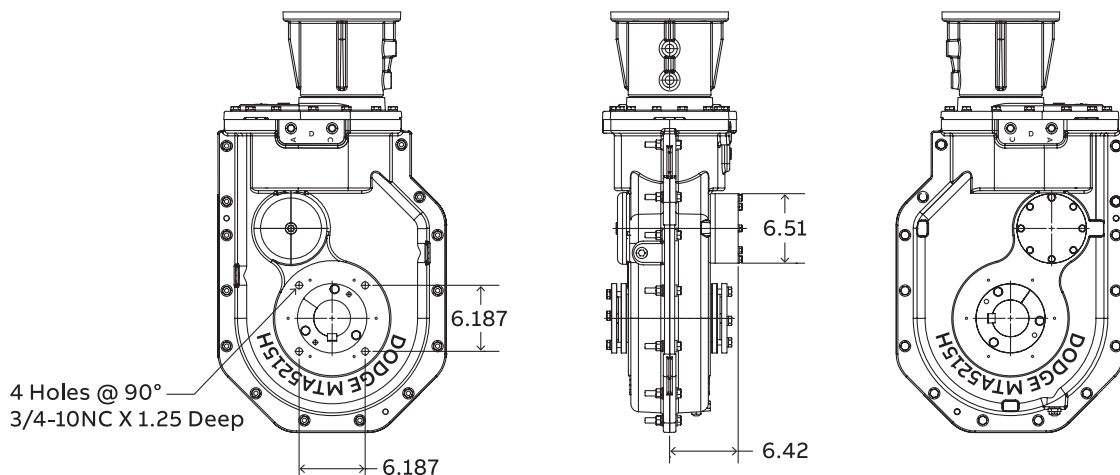
- (2) SCA Adapter and hardware kit includes adapter, mounting wedge, keeper plate, key, seals and hardware
- (3) SCP Adjustable packing kit consists of flange, mounting hardware and braided packing seals
- (4) SCS Drive shaft is a shaft only. Hardware is stocked with the adapter and hardware kit
- (5) A 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



Reducer with backstop



All dimensions are in inches.

MTA6307

Shaft mounted accessories

MTA6307 C-Face reducer weights with adapter (lbs)

Adapter size								
Reducer	180	210	250	280	280TSC	320	360	320TSC & 360TSC
Weight (lbs)	475	480	485	505	505	525	545	525

MTA6307H accessories

Description	Part number	Weight lbs.
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 dessicant breather kit	964364	0.8
MTA2-8 Vertical Position D breather kit	472300	3.0
Dodge OPTIFY sensor	750000	0.5

Safety bushing covers

Reducer size	ABS polymer buhsing cover part numbers			
	Closed	Weight lbs.	Split	Weight lbs.
MTA5215H & MTA6307H	905142	1.0	905143	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.

TA6307H tapered bushing kits (5) (6)

Bushing size standard shaft bushing kit	Part number (7)	Weight lbs.	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
TA6307TB x 2-7/8 ∅	906024	20.1	3/4 x 3/8 x 10.82
TA6307TB x 2-11/16 ∅	906025	20.9	5/8 x 5/16 x 10.82
TA6307TB x 2-1/2 ∅	906026	22.1	5/8 x 5/16 x 10.82
TA6307TB x 2-7/16 ∅	906027	22.3	5/8 x 5/16 x 10.82
TA6307TB x 2-3/8 ∅	906028	22.7	5/8 x 5/16 x 10.82
TA6307TB x 2-1/4 ∅	906029	23.1	1/2 x 1/4 x 10.82
TA6307TB x 2-3/16 ∅	906030	23.3	1/2 x 1/4 x 10.82

TA6307H tapered short shaft bushing kits (5) (6)

Bushing size short shaft bushing kit (8)	Part number	Weight lbs.	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
TA6307TBS x 2-7/8	906035	22.3	3/4 x 3/8 x 6.72
TA6307TBS x 2-11/16	906036	23.7	5/8 x 5/16 x 6.72
TA6307TBS x 2-1/2	906037	25.3	5/8 x 5/16 x 6.72
TA6307TBS x 2-7/16	906038	25.8	5/8 x 5/16 x 6.72
TA6307TBS x 2-3/8	906039	26.3	5/8 x 5/16 x 6.72
TA6307TBS x 2-1/4	906040	26.7	1/2 x 1/4 x 6.72
TA6307TBS x 2-3/16	906041	27.5	1/2 x 1/4 x 6.72

▲ AGMA maximum bore size

∅ 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 drive shaft in a screw conveyor application

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

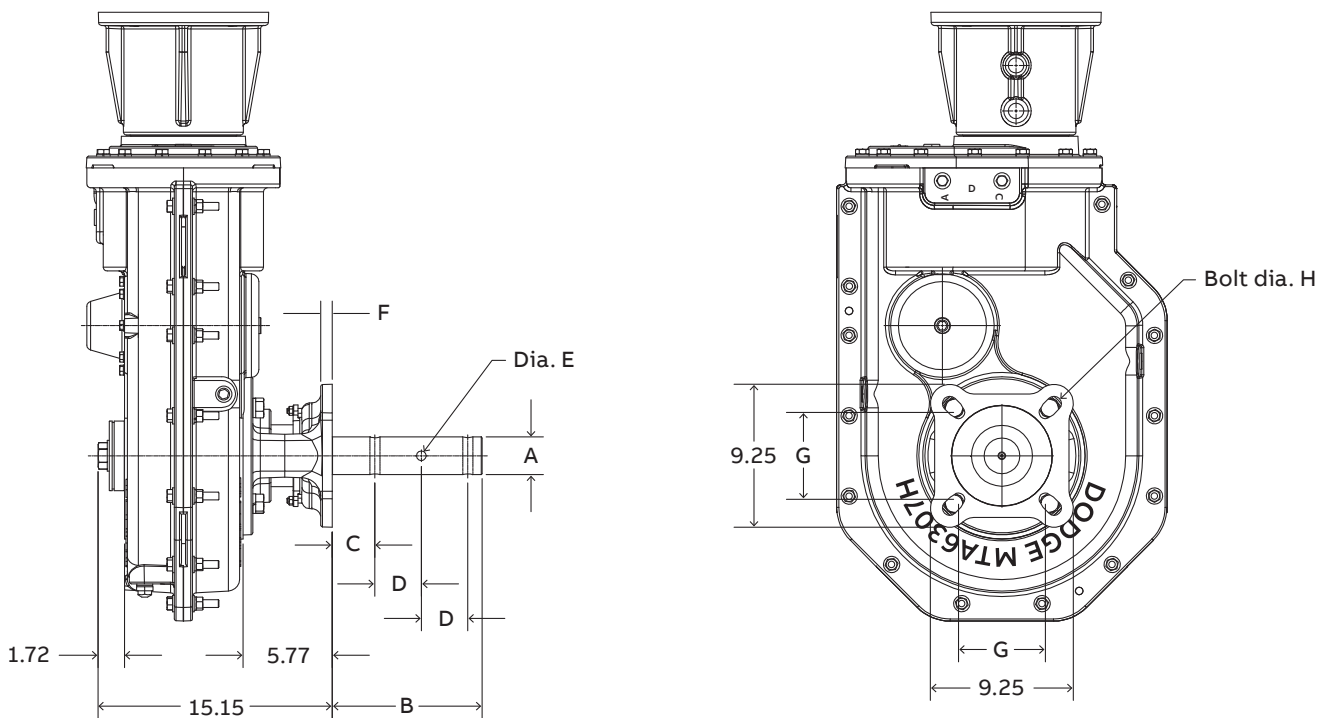
(8) Short shaft bushing kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.

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

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

MTA6307

Screw conveyor reducer



MTA6307H screw conveyor drive dimensions

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

All dimensions are in inches.

MTA6307

Screw conveyor accessories

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers	
	Closed	Weight
MTA5215H & 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 lbs.
TA6307SCA Adapter and hardware kit (2)	906070	40.0
TA6307SCP Adjustable packing kit (3)	906071	2.4
TA6307SCS x 2-7/16 Drive shaft	906074	54.6
TA6307SCS x 3 Drive shaft	906075	61.0
TA6307SCS x 3-7/16 Drive shaft	906076	74.9
TA6307SCS x 2-7/16 Stainless steel drive shaft	906082	54.6
TA6307SCS x 3 Stainless steel drive shaft	906083	61.0
TA6307SCS x 3-7/16 Stainless steel drive shaft	906084	74.9
Dodge OPTIFY sensor	750000	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 Drive shaft is a shaft only. Hardware is stocked with the adapter and hardware kit
- (5) A 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.

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

MTA7315

Shaft mounted reducer

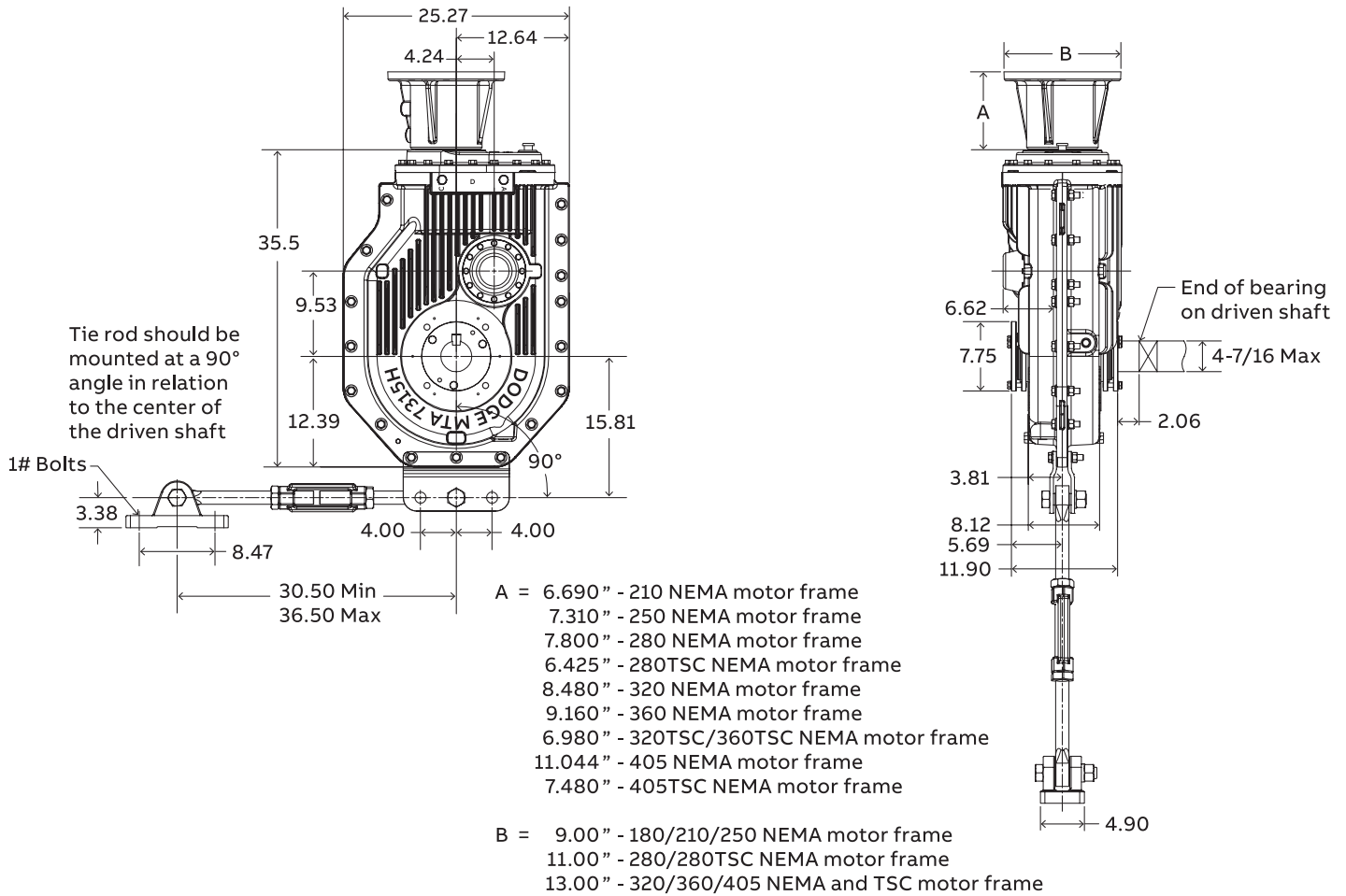
Reference Guide

Motorized Torque-Arm II

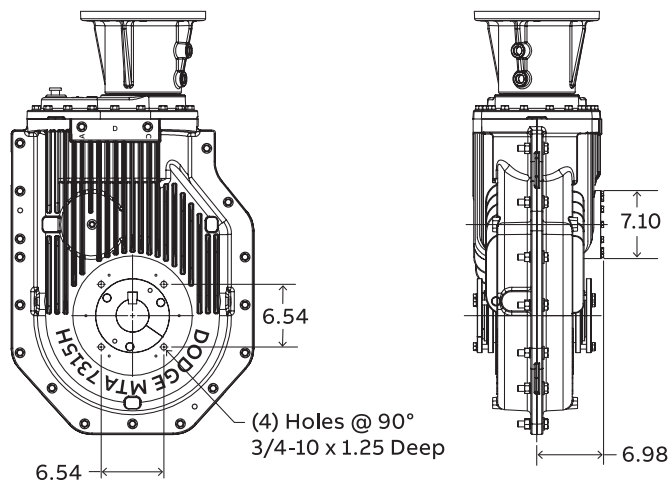
Torque-Arm II

Torque-Arm

Bulk Material Handling



Reducer with backstop



All dimensions are in inches.

MTA7315

Shaft mounted accessories

MTA7315 C-Face reducer weights with adapter (lbs)

Adapter size										
Reducer	180	210	250	280	280TSC	320	360	32/36TSC	405	405TSC
Weight (lbs)	–	770	775	800	800	820	835	820	840	830

MTA7315H accessories

Description	Part number	Weight lbs.
TA9415RA Rod assembly use for MTA7315	909109	76.8
TA10507BS Backstop assembly use for MTA7315	910102	23.0
TA4-TA9 Hydra-Lock dessicant breather kit	964364	0.8
MTA2-8 Vertical Position D breather kit	472300	3.0
Dodge OPTIFY sensor	750000	0.5

Safety bushing covers

Reducer size	ABS polymer bushing cover part numbers			
	Closed	Weight lbs.	Split	Weight lbs.
MTA7315H	907142	1.6	907143	1.1

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 tapered bushing kits (5) (6)

Bushing size standard shaft bushing kit	Part number (7)	Weight lbs.	Shaft keyseat required (9) (10)
TA7315TB x 4-7/16	907019	20.5	1 x 1/2 x 11.87
TA7315TB x 4-3/16	907021	23.5	1 x 1/2 x 11.87
TA7315TB x 3-15/16 ▲	907022	26.3	1 x 1/2 x 11.87
TA7315TB x 3-7/16	907023	30.9	7/8 x 7/16 x 11.87
TA7315TB x 3-3/16 ∅	907024	32.6	3/4 x 3/8 x 11.87
TA7315TB x 3 ∅	907025	34.0	3/4 x 3/8 x 11.87
TA7315TB x 2-15/16 ∅	907026	34.6	3/4 x 3/8 x 11.87
TA7315TB x 2-7/8 ∅	907027	35.0	3/4 x 3/8 x 11.87
TA7315TB x 2-11/16 ∅	907028	35.8	5/8 x 5/16 x 11.87
TA7315TB x 2-1/2 ∅	907029	37.2	5/8 x 5/16 x 11.87
TA7315TB x 2-7/16 ∅	907030	37.4	5/8 x 5/16 x 11.87

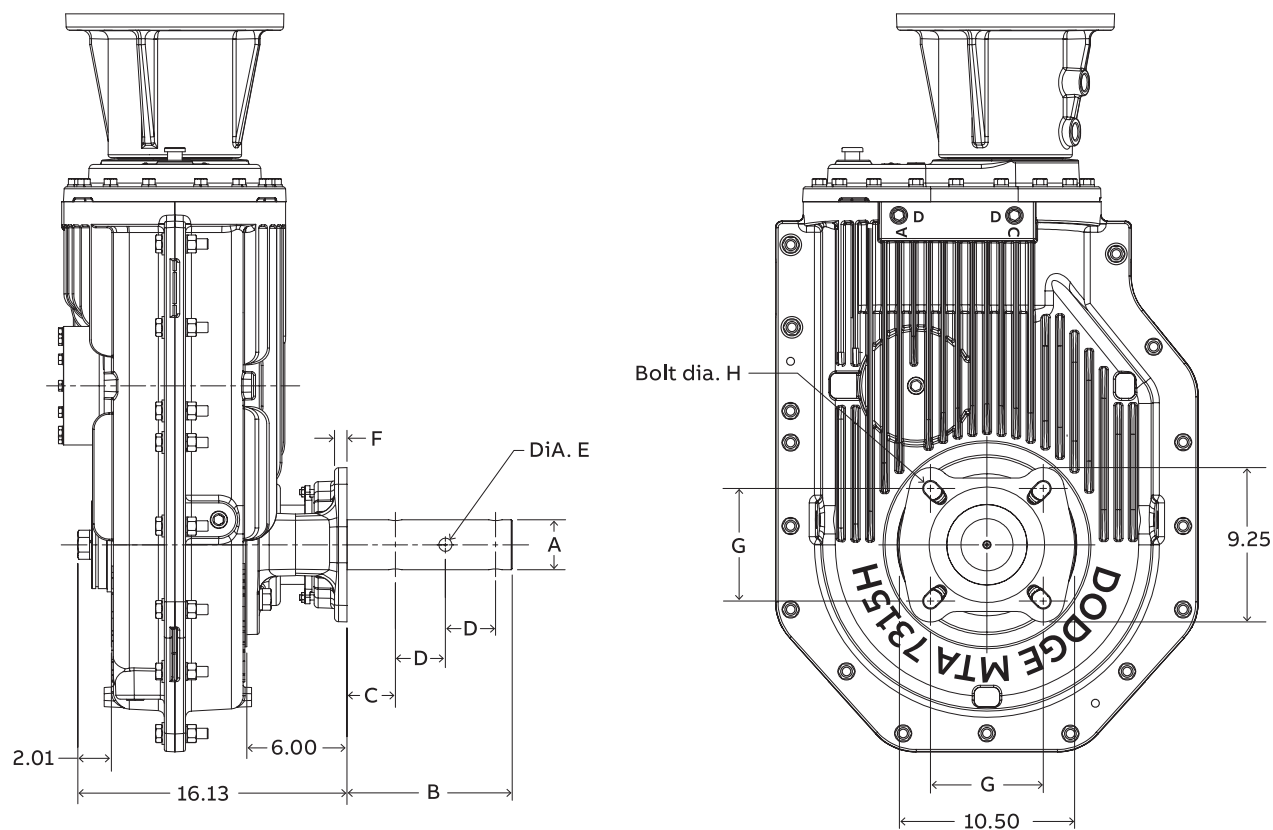
- ▲ AGMA maximum bore size
- ∅ Check driven shaft strength against torque requirements and assembly weight
- (5) Bushing kit required to mount TA II reducer to driven shaft
- (6) Bushing kit is not required to mount TA II reducer on screw conveyor Drive Shaft in a screw conveyor application
- (7) Standard shaft bushing kit includes two standard bushings with back-up plates and snap rings; hardware, and key
- (8) Short shaft bushing kit includes one standard bushing, one long bushing with insertable wedge; two back-up plates with snap rings; hardware and key. This is an optional bushing for after market, short shaft mounting.
- (9) Minimum keyseat and shaft length required to mount reducer with bushing kit
- (10) Always check the driven shaft and key for strength

MTA7315H short shaft tapered bushing kits

Bushing size short shaft bushing kit	Part number (8)	Weight lbs.	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
TA7315TBS x 3-3/16	907033	36.7	3/4 x 3/8 x 7.62
TA7315TBS x 3	907034	38.8	3/4 x 3/8 x 7.62
TA7315TBS x 2-15/16	907035	39.6	3/4 x 3/8 x 7.62
TA7315TBS x 2-7/8	907036	40.2	3/4 x 3/8 x 7.62
TA7315TBS x 2-11/16	907037	41.7	5/8 x 5/16 x 7.62
TA7315TBS x 2-1/2	907038	43.6	5/8 x 5/16 x 7.62
TA7315TBS x 2-7/16	907039	44.1	5/8 x 5/16 x 7.62

MTA7315

Screw conveyor reducer



MTA7315H screw conveyor drive dimensions

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

All dimensions are in inches.

MTA7315

Screw conveyor accessories

Safety bushing covers

Reducer size	ABS Polymer end cover part numbers	
	Closed	Weight lbs.
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 lbs.
TA7315SCA Adapter and hardware kit (2)	907070	50.1
TA7315SCP Adjustable packing kit (3)	907071	2.5
TA7315SCS x 2-7/16 Drive shaft	907074	77.0
TA7315SCS x 3 Drive shaft	907075	83.4
TA7315SCS x 3-7/16 Drive shaft	907076	97.3
TA7315SCS x 2-7/16 Stainless steel drive shaft	907082	77.0
TA7315SCS x 3 Stainless steel drive shaft	907083	83.4
TA7315SCS x 3-7/16 Stainless steel drive shaft	907084	97.3
Dodge OPTIFY sensor	750000	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 Drive shaft is a shaft only. Hardware is stocked with the adapter and hardware kit
- (5) A 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.

Shaft mounted reducer

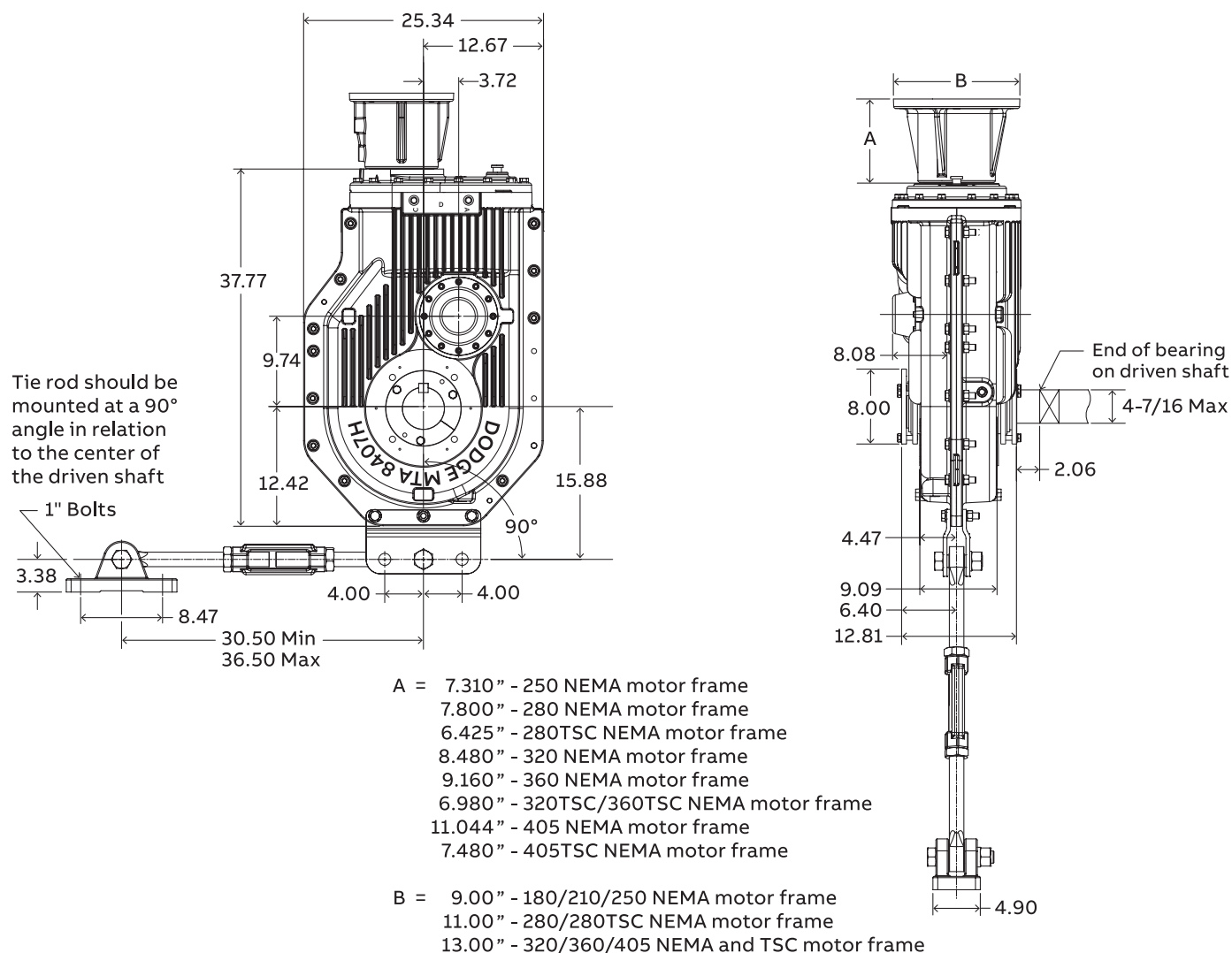
Reference Guide

Motorized Torque-Arm II

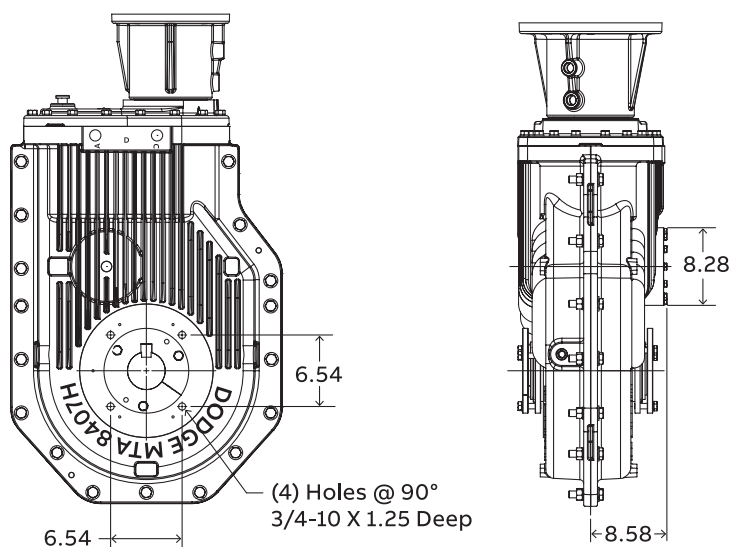
Torque-Arm II

Torque-Arm

Bulk Material Handling



Reducer with backstop



All dimensions are in inches.

MTA8407

Shaft mounted accessories

MTA8407 C-Face reducer weights with adapter (lbs)

Adapter size										
Reducer	180	210	250	280	280TSC	320	360	32/36TSC	405	405TSC
Weight (lbs)	–	–	910	935	935	955	970	955	975	965

MTA8407H accessories

Description	Part number	Weight lbs.
TA9415RA Rod assembly use for MTA8407	909109	76.8
TA12608BS Backstop assembly use for MTA8407	912102	39.0
TA4-TA9 Hydra-Lock dessicant breather kit	964364	0.8
MTA2-8 Vertical Position D breather kit	472300	3.0
Dodge OPTIFY sensor	750000	0.5

Safety bushing covers

Reducer Size	ABS polymer bushing cover part numbers			
	Closed	Weight lbs.	Split	Weight lbs.
MTA8407H	908142	1.7	908143	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.

MTA8407H tapered bushing kits (5) (6)

Bushing size standard shaft bushing kit	Part number (7)	Weight lbs.	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
TA8407TB x 3-7/16 ∅	908023	36.7	7/8 x 7/16 x 12.82
TA8407TB x 3-3/16 ∅	908024	38.4	3/4 x 3/8 x 12.82
TA8407TB x 3 ∅	908025	39.8	3/4 x 3/8 x 12.82
TA8407TB x 2-15/16 ∅	908026	40.4	3/4 x 3/8 x 12.82

MTA8407H short shaft tapered bushing kits (5) (6)

Bushing size short shaft bushing kit	Part number (8)	Weight lbs.	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
TA8407TBS x 3-7/16	908030	42.4	7/8 x 7/16 x 8.10
TA8407TBS x 3-3/16	908031	45.3	3/4 x 3/8 x 8.10
TA8407TBS x 3	908032	47.5	3/4 x 3/8 x 8.10
TA8407TBS x 2-15/16	908033	48.3	3/4 x 3/8 x 8.10

▲ AGMA maximum bore size

∅ 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 drive shaft in a screw conveyor application

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

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

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

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

Harsh Duty Accessories

Safety bushing covers

Reducer size	Reducer size	ABS polymer bushing cover part numbers			
		Closed	Weight lbs.	Split	Weight lbs.
TA2115H	TA2115H	902142	0.6	902143	0.5
TA3203H	TA3203H	903142	0.6	903143	0.5
TA4207H	TA4207H	904142	1.2	904143	1.0
TA5215H	TA5215H	905142	1.5	905143	1.0
TA6307H	TA6307H	905142	1.5	905143	1.0
TA7315H	TA7315H	907142	1.6	907143	1.1
TA8407H	TA8407H	908142	1.7	908143	1.2

End covers fit both the input side and backstop side of MTA reducer.

V-ring seal kits

Reducer size	Part	Weight lbs.
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
Dodge OPTIFY sensor	750000	0.5

Harsh duty breathers

Enclosed chamber	
Reducer size	Part number
MTA2-MTA8	240050
Hydra-Lock breathers	
MTA2-MTA3	964372
MTA4-MTA8	964364
Motor in Position D	
Position D breather kit	472300

MTA Engineering Information

Thrust capacity for screw conveyor drives (pounds)

Case size	Output speed (RPM)								
	10	25	50	75	100	125	150	175	200
MTA2115H	6000	6000	6000	5323	4850	4550	4295	4086	3924
MTA3203H	6000	6000	6000	6000	5761	5328	5020	4813	4636
MTA4207H	6000	6000	6000	6000	6000	6000	6000	6000	6000
MTA5215H	6000	6000	6000	6000	6000	6000	6000	6000	6000
MTA6307H	6000	6000	6000	5885	5185	4706	4435	4303	4269
MTA7315H	†	†	†	†	†	†	†	†	†
MTA8407H	–	–	–	–	–	–	–	–	–

† - Consult Dodge

Horsepower	NEMA motor frame	NEMA motor frame	Shaft diameter
	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	NEMA motor frame		NEMA motor frame	
	4 pole	Shaft diameter	2 pole	Shaft diameter
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"

Reliability Packages

for harsh duty environments

Dodge Motorized Torque-Arm II is designed for use in harsh duty environments. It is the go to gearbox for users demanding maximum bearing life and uptime from their equipment. When severe applications arise, Dodge answers with the new reliability kits for MTA II.

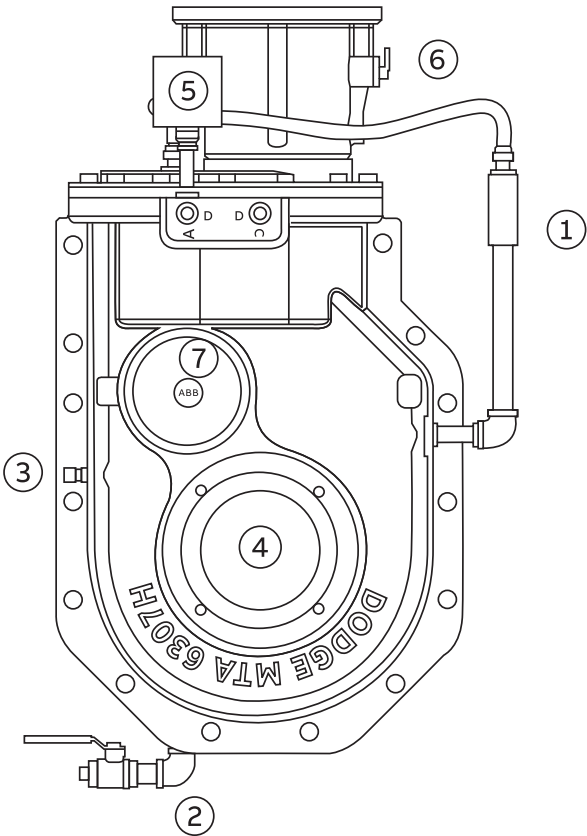
Reliability kit level 1 is used where users demand maximum uptime from critical equipment. The level 1 kit includes:

- 1. Large vented oil sight tube with 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. Position D breather kit with sight gauge and enclosed.
- 6. Severe duty adapter plug

When condition monitoring is critical to the uptime reliability of the plant, the customer can add:

- 7. Dodge Optify Sensor - part # 750000

This allows trend monitoring of critical data from the reducer. And can be read from cell phone or computer. Can beintegrated into plant wide preventative maintenance programs



Reliability kit level 1 is used where users demand maximum uptime from critical equipment. The level 1 kit includes creates a closed loop system that eliminates the introduction of any outside air or contaminants. It also allows the end user to check the oil level from a distance. Add to that, the complete protection from spinning bushing bolts, and you have a winner for longevity and safety.

Part number	Description
M2RELIAKITLVL01	MTA2115 reliability kit level 1
M3RELIAKITLVL01	MTA3203 reliability kit level 1
M4RELIAKITLVL01	MTA4207 reliability kit level 1
M5RELIAKITLVL01	MTA5215 reliability kit level 1
M6RELIAKITLVL01	MTA6307 reliability kit level 1
M7RELIAKITLVL01	MTA7315 reliability kit level 1
M8RELIAKITLVL01	MTA8407 reliability kit level 1

Aftermarket replacement parts

Motorized Torque-Arm II seal kits (5)

Reducer size	Part number	Weight lbs.
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 2 output seals, 1 input seal, 2 output excluder seals

Motorized Torque-Arm II backstop cover and gasket (6)

Reducer size	Part number	Weight lbs.
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

Motorized Torque-Arm II coupling replacement parts (7) full coupling part numbers for motor frames listed below

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

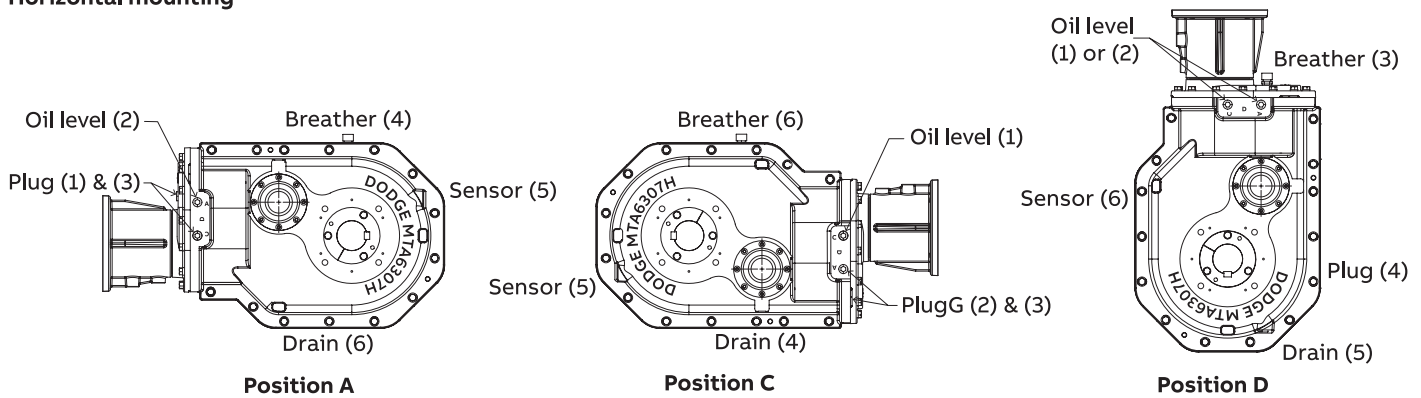
(7) Kit includes two coupling halves and element

Coupling (element only) part numbers for motor frames

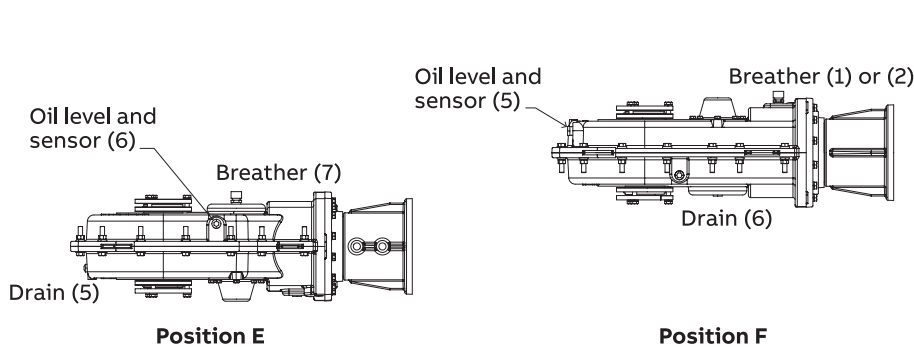
Reducer Size	180C	210C	250C	280C	280TSC	–
MTA2115H	334291	334291	334291	–	–	–
MTA3203H	334291	334291	334291	–	334291	–
MTA4207H	454424	454424	454424	454424	454424	–
MTA5215H	454424	454424	454424	454424	454424	–
MTA6307H	–	454424	454424	454424	454424	–
MTA7315H	–	454424	454424	454424	454424	–
MTA8407H	–	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

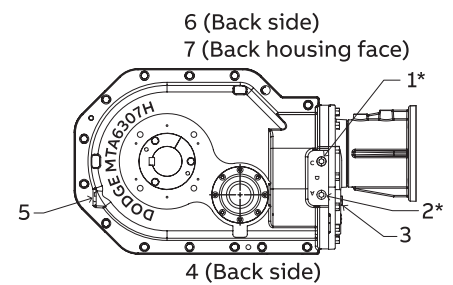
Horizontal mounting



Vertical mounting



Typical oil hole locations



* Plugs (1) and (2) are located on both sides of the reducer. Fill oil to plug with cast lettering that matches the mounting position.

Vent and plug locations

Mounting position	Vent and plug locations for all speeds						
	1	2	3	4	5	6	7
Position A	Plug	Oil level	Plug	Breather	Sensor	Drain	Plug
Position C	Oil level	Plug	Plug	Drain	Sensor	Breather	Plug
Position D	Oil level*	Oil level*	Breather	Plug	Drain	Sensor	Plug
Position E	Plug	Plug	Plug	Plug	Drain	Oil level & sensor	Breather
Position F	Breather*	Breather*	Plug	Plug	Oil level & sensor	Drain	Plug

*Either Plug (1) or plug (2) may be used

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

■ 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.

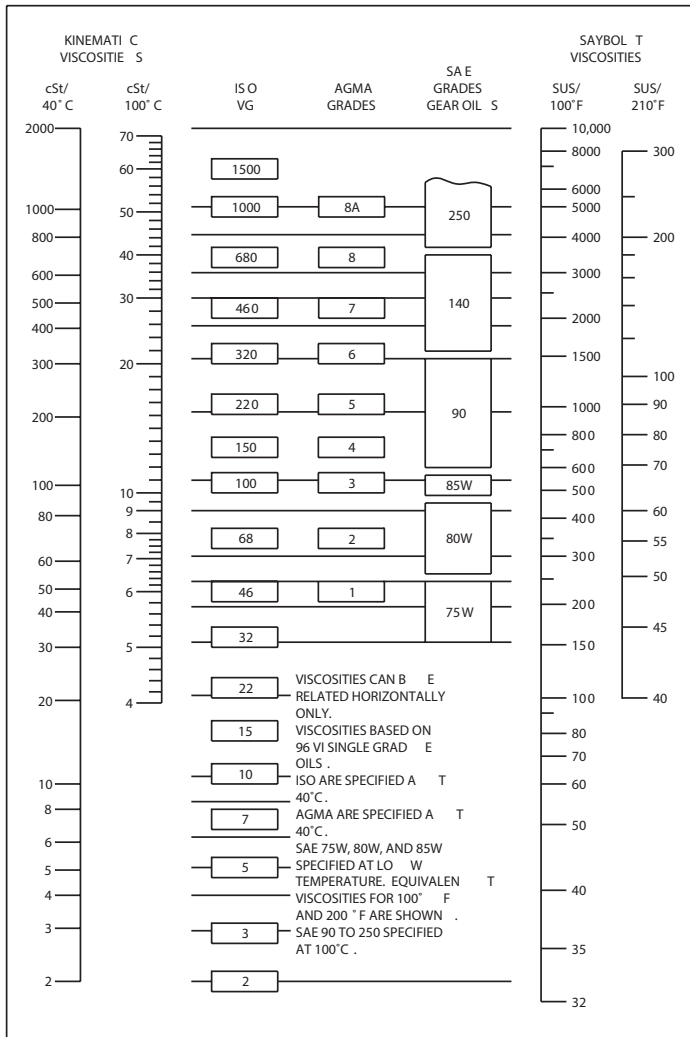
□ Position B not shown or recommended, check with factory

⊗ For Position D - It is recommended to use "Position D breather kit" part number - 472300.

All Dodge MTA II gearboxes are equipped with Dodge OPTIFY sensorplugs from the factory

Engineering and Technical

Oil viscosity equivalence chart



Lubrication

Recommended lubricants for MTA II and Torque Arm II 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 XMP 220
320		320	320
Mobil			
150		Extra Heavy	150
220	Mobil DTE	BB	MobilGear 600 XP 220
320		AA	320
Texaco			
150		150	150
220	Regal Oil R&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	220	Omala S2 G 220
320	Morlina S3 B	320	320

* Partial list. Consult Dodge or a lubricant manufacturer for further oil lubricants, and check lubricant manufacturer's website for new revisions in oil nomenclature

Table 1 – Oil recommendations

ISO Grades for ambient temperatures of 50°F to 125°F							
Output RPM	Motorized Torque-Arm II reducer size						
	MTA...						
	2115H	3203H	4207H	5215H	6307H	7315H	8407H
151 – 200	320	220	220	220	220	220	220
126 – 150	320	220	220	220	220	220	220
101 – 125	320	320	220	220	220	220	220
81 – 100	320	320	320	220	220	220	220
41 – 80	320	320	320	220	220	220	220
11 – 40	320	320	320	320	320	320	320
1 – 10	320	320	320	320	320	320	320

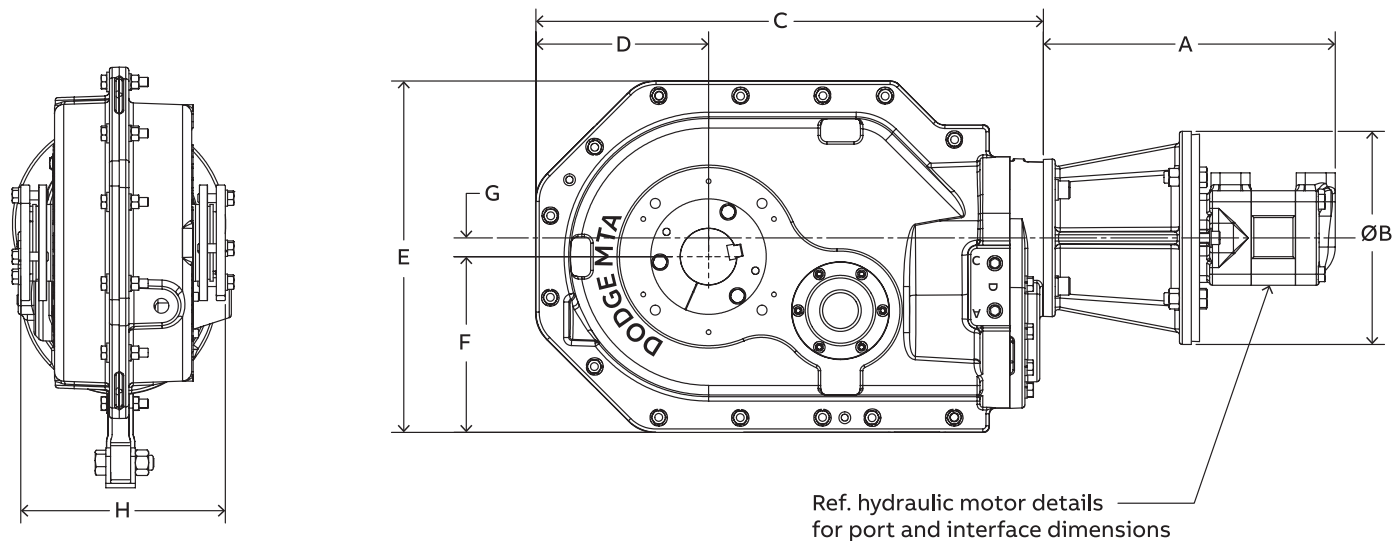
Table 2 – Oil recommendations

ISO Grades for ambient temperatures of 15°F to 60°F							
Output RPM	Motorized Torque-Arm II reducer size						
	MTA...						
	2115H	3203H	4207H	5215H	6307H	7315H	8407H
151 – 200	220	150	150	150	150	150	150
126 – 150w	220	150	150	150	150	150	150
101 – 125	220	220	150	150	150	150	150
81 – 100	220	220	220	150	150	150	150
41 – 80	220	220	220	150	150	150	150
11 – 40	220	220	220	220	220	220	220
1 – 10	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) Extreme pressure (EP) lubricants are not necessary for average operating conditions. When properly selected for specific applications, Torque-Arm II backstops are suitable for use with EP lubricants.
- (4) Special lubricants may be required for food and drug industry applications where contact with the product being manufactured may occur. Consult a lubrication manufacturer's representative for his recommendations.
- (5) For reducers operating in ambient temperatures between -22°F (-30°C) and 20°F (-6.6°C) use a synthetic hydrocarbon lubricant, 100 ISO grade or AGMA 3 grade (for example, Mobil SHC627). Above 125°F (51°C), consult Dodge Gear Application Engineering (864) 297-4800
- (6) Mobil SHC630 Series oil is recommended for high ambient temperatures.

Hydraulic MTA II Speed Reducers

Dimensional information



Assembly Part number	Reducer ratio	Motor weight (lbs)	Assembly weight (without tierod) (lbs)	Dimensions (in)							
				A	B	C	D	E	F	G	H
M2H18THYD3B18	17.68	18	185	12.33	9.00	19.30	6.64	13.48	6.75	0.48	7.55
M3H17THYD3B27	17.46	18	240	12.33	9.00	21.43	7.30	14.82	7.41	0.79	8.62
M4H22THYD3B36	21.82	18	300	12.33	9.00	24.19	8.44	16.89	8.44	0.48	8.73
M5H29THYD4C55	29.41	34	427	14.40	9.00	28.16	9.68	19.31	9.64	0.55	10.33
M6H24THYD4D02	24.43	60	558	15.12	9.00	31.38	10.70	21.39	10.70	0.91	10.83

Note: Refer to MTA dimension sheet for further details.

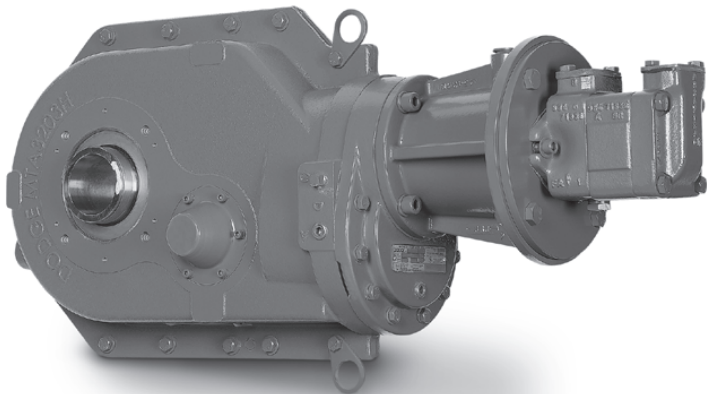
Accessories

Use the same accessories per size as the regular MTA II reducers.

M2 = G1-48/51; M3 = G1-52/55; M4 = G1-56/59; M5 = G1-60/63; M6 = G1-64/67

MTA II 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											
				20	25	30	35	40	45	50	55	60	65		
M2H18THYD3B18	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		
M3H17THYD3B27	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		
M4H22THYD3B36	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		
M5H29THYD4C55	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		
M6H24THYD4D02	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		
				70	75	80	85	90	100	110	120	130			
M2H18THYD3B18	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		
M3H17THYD3B27	10,321	13,687	Output hp (running)		15.8	16.9	18.0	19.1	20.3	22.5	24.8				
M4H22THYD3B36	16,696	22,688	Output hp (running)		24.4	26.1	27.9	29.6							
M5H29THYD4C55	30,146	37,229	Output hp (running)		41.6	41.6	41.6								
M6H24THYD4D02	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											
				20	25	30	35	40	45	50	55	60	65		
M2H18THYD3B18	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		
M3H17THYD3B27	10,321	13,687	Output hp (running)	3.2	4.0	4.8	5.6	6.4	7.2	8.0	8.8	9.6	10.5		
M4H22THYD3B36	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		
M5H29THYD4C55	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		
M6H24THYD4D02	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		
				70	75	80	85	90	100	110	120	130			
M2H18THYD3B18	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			
M3H17THYD3B27	10,321	13,687	Output hp (running)	11.3	12.1	12.9	13.7	14.5	16.1	17.7					
M4H22THYD3B36	16,696	22,688	Output hp (running)	17.4	18.7	19.9	21.2								
M5H29THYD4C55	30,146	37,229	Output hp (running)	29.7	29.7	29.7									
M6H24THYD4D02	40,000	54,793	Output hp (running)	38.9	41.7	44.5									

Notes

Torque-Arm II

G2-1	Torque-Arm II
G2-2	Features and Benefits
G2-7	Specifications
G2-8	Nomenclature
G2-9	Selection
G2-14	Class I
G2-19	Class II
G2-24	Class III
G2-28	Selection and Dimensions
G2-28	TA0107L
G2-36	TA1107H
G2-44	TA2115H
G2-52	TA3203H
G2-60	TA4207H
G2-68	TA5215H
G2-76	TA6307H
G2-84	TA7315H
G2-92	TA8407H
G2-98	TA9415H
G2-102	TA10507H
G2-106	TA12608H
G2-110	Belt Guard TA0107L – TA12608H
G2-114	Cooling Fan TA4207H – TA12608H
G2-115	Related Products
G2-115	Harsh duty accessories
G2-117	Maximum bore straight bore ⁽¹⁾ ⁽²⁾ ⁽³⁾
G2-118	Nominal sheave ratios
G2-120	Nominal sheave speed (RPM)
G2-121	Renewal parts
G2-123	Engineering and Technical
G2-123	NEMA motor and Torque-Arm II reducer information, backstop lift-off speed
G2-124	Maximum input and output speeds
G2-125	Thrust capacity for screw conveyor drives
G2-126	Lubrication
G2-131	Viscosity classification equivalents
G2-132	Bearing L-10 life as a function of service factor

Features and Benefits

Torque-Arm II

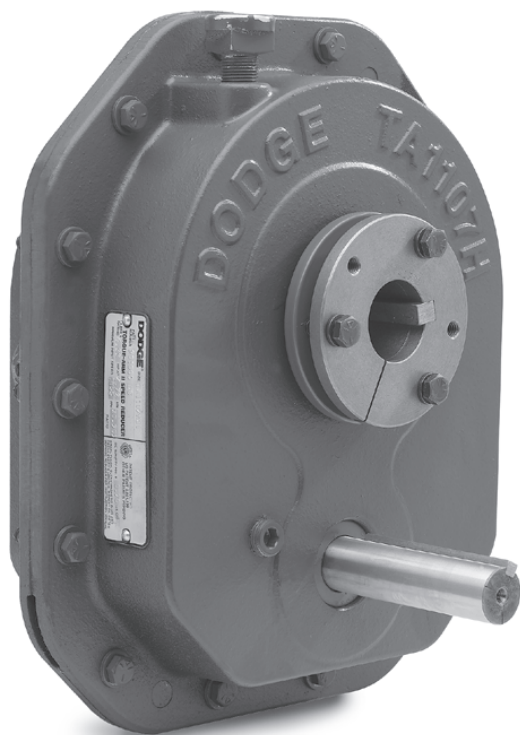
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

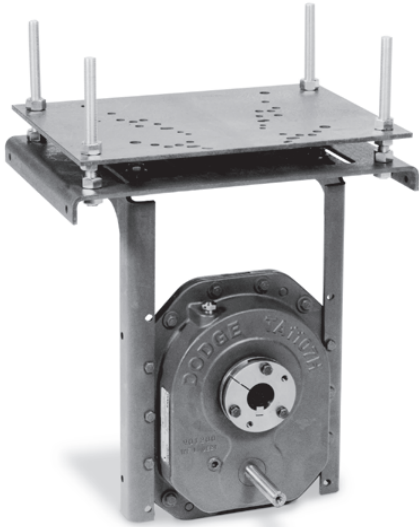


Since 1949, Dodge Torque-Arm products have proven dependability with more than 2 million units in service throughout the world. Dodge Torque-Arm speed reducers are the standard of the industry. Now, that legacy continues with the latest generation in shaft mounted speed reducers – Torque-Arm II – offering patented innovations, heavy duty features, plus class leading torque and horsepower ratings.

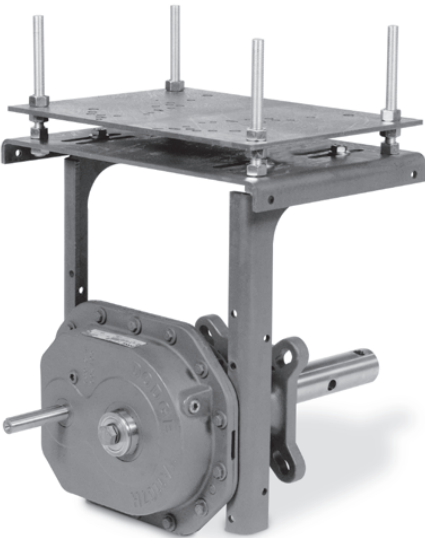


Features and benefits

Shaft mount speed reducers



Shaft mounted reducer with twin tapered



Screw conveyor drive with adapter, drive

The Dodge Torque-Arm II surpasses all other reducers on the market because of its industry proven design and patented features. This powerful line of shaft mounted speed reducers - in 12 case sizes through 700 (Hp) – offers unparalleled torque ratings and is quickly becoming the new industry standard.

Improved features and capabilities include:

- Twelve 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 backstop that works with 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 conveyor, vertical and flange mounted

The class leading ratings of the Torque-Arm 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, the Torque-Arm II line has a patented, harsh duty, premium sealing system that uses a harsh duty oil seal protected by a metal excluder seal with rubbing lip. A perfect fit for today's harsh duty industries such as aggregates, mining, cement, asphalt, mixing & milling, 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 Torque-Arm bushing design which are unique to Dodge, while allowing the replacement of straight bore or single bushed reducers.

Features and benefits

Shaft mount speed reducers

Rugged heavy duty design

Engineered for extended operating life

- AGMA standard design providing minimum average bearing life (L50) 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% overload starting capacity at 1.0 service factor

Harsh duty seals to withstand any environment

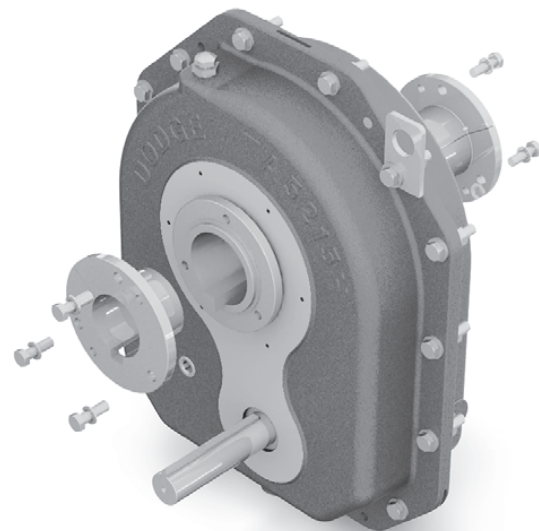
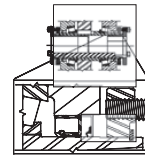
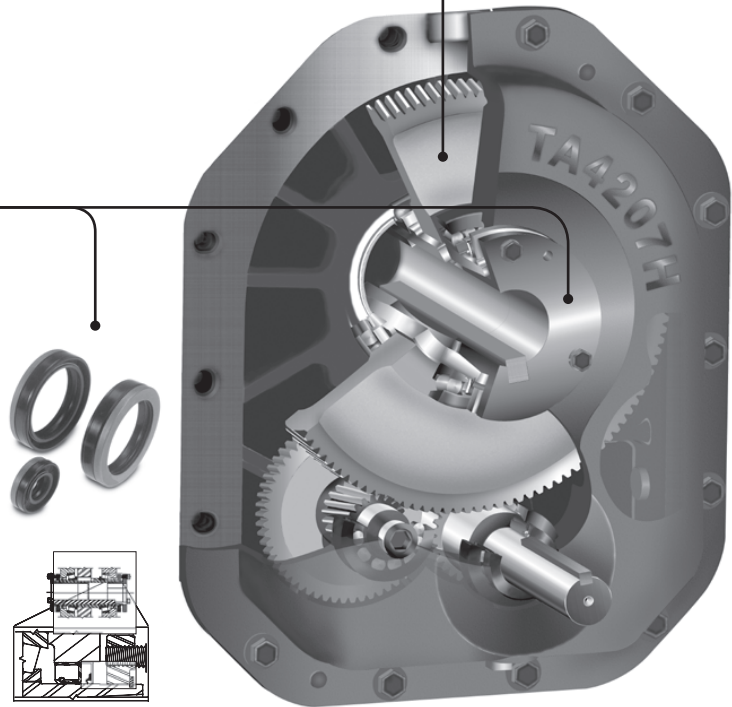
- Dual sealing systems on all shafts consist of metal reinforced oil seals that are protected by an external metal shield and excluder lip
- Oil seals have an operating temperature range of -40°F to 300°F / -40°C to 150°C
- Compatible with both mineral and synthetic lubricants
- Easy to install, optional 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, the Torque-Arm II has twice the bearing life compared to most competitors
- 200% overload starting capacity ensures high efficiency and reliability

Dodge twin tapered bushings for easy installation and removal

- System features two fully split, ductile iron, 8° 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



Features and benefits

Shaft mount speed reducers

Belt guard package

Allows for multiple height adjustments, featuring a lift-off cover construction. Optional - New full featured Position B-M2 belt guards offer enhanced safety and maintenance features.

Motor mount

Provides stable mounting between 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

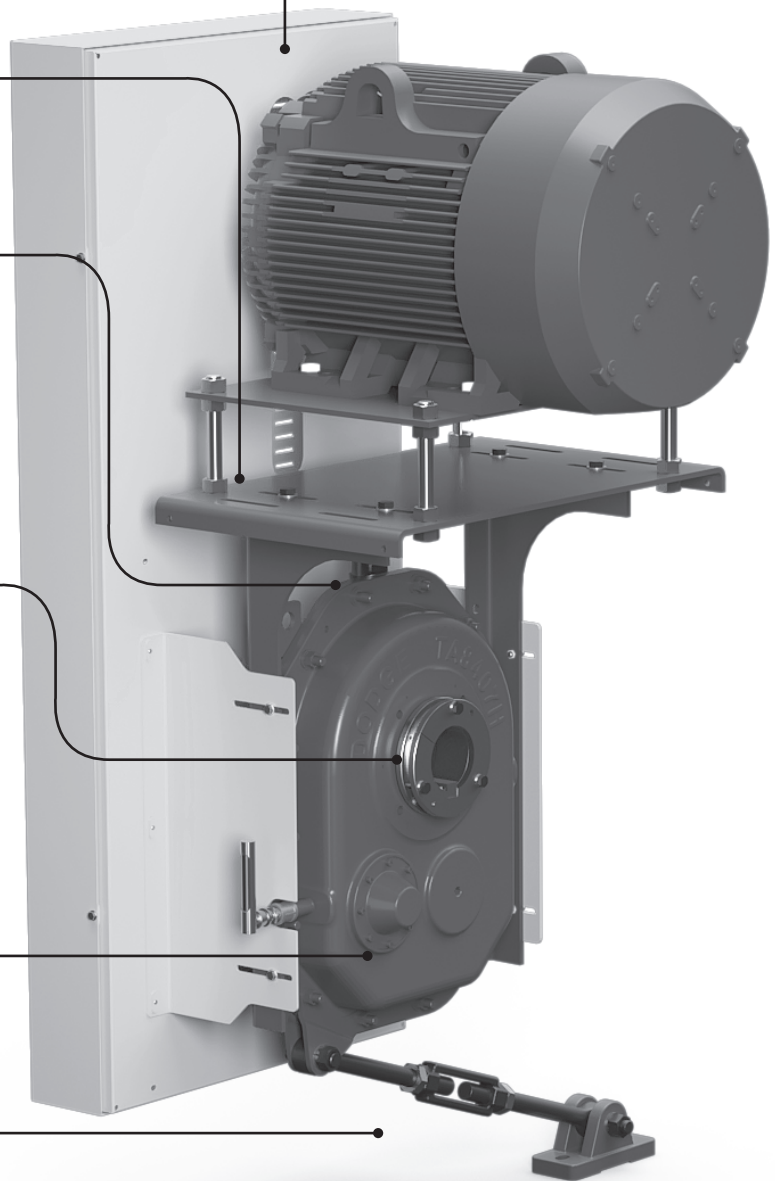
Safety feature that prevents reverse rotation when system stops. Compatible with standard and EP lubricants without requiring external lubrication.

Tie rod kit

Provides a safety link between reducer and structure to prevent system rotation. Standard rods and turnbuckles are now 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.



Features and benefits

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 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.



Adjustable packing kit

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

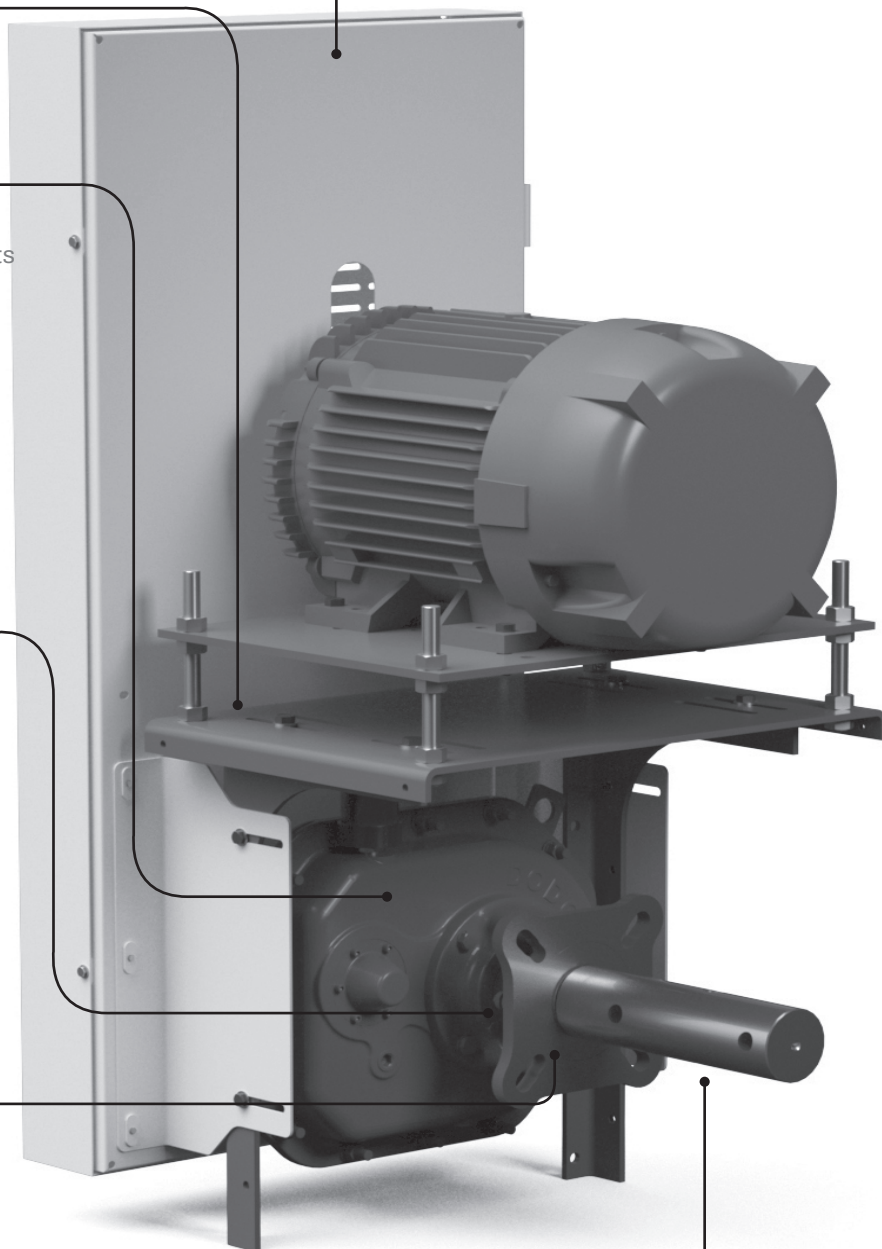


CEMA adapter

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

CEMA driveshafts

Standard 3-hole screw conveyor drive shafts are the standard for higher torque applications.



Specifications

Torque-Arm II shaft mount speed reducers

Torque-Arm II speed reducers

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

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

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

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

All seals shall be of the lip, spring loaded type, made of 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 ductile iron, fully split, two bushing system. Reducer removal shall be accomplished by providing jack screw holes in the bushing flanges to mechanically remove the tapered assembly.

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

Screw conveyor drives

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

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

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

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

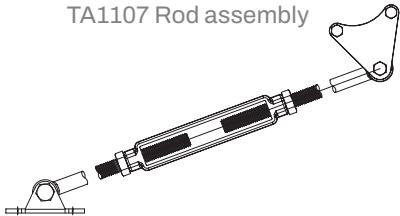
Nomenclature

Torque-Arm II shaft mount speed reducers

Shaft mount reducer

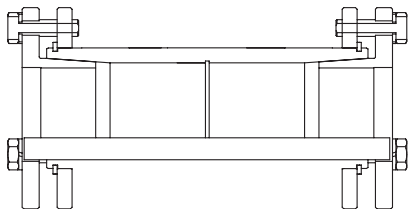
TA1107RA

TA1107 Rod assembly



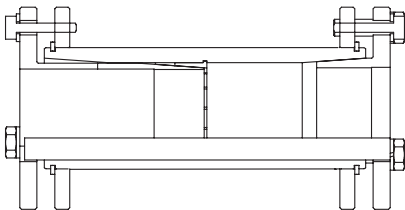
TA1107TB x 1-7/16

TA1107TB x 1-7/16 Twin tapered bushing
Kit for Standard length driven shaft



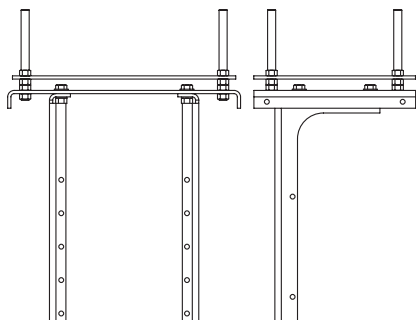
TA1107TBS x 1/7-16

TA1107TB x 1-7/16 Twin tapered bushing
Kit for Short driven shaft



TA1107MM

TA1107MM Motor mount assembly



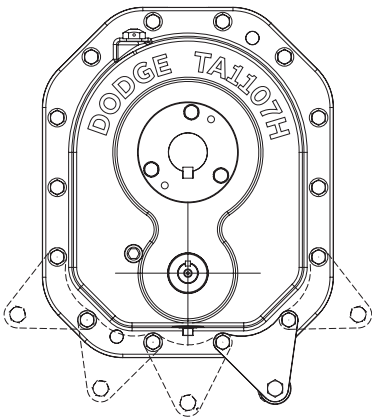
Basic Torque-Arm II reducer

TA Torque-Arm II shaft mount reducer

1 Case size 1

107 AGMA Code reference &
Traditional Bore Size

H Heavy duty rating and extended
bore size



Other accessories

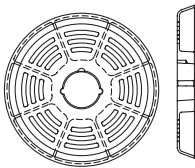
TA1107BS

Backstop assembly



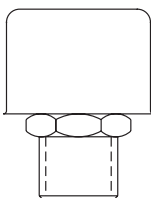
TA4207CF

Cooling fan assembly



TA1-4 FB kit

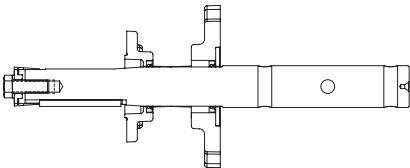
Filter breather kit



Screw conveyor drive

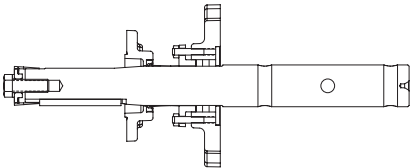
TA1107SCA

TA1107SCA Screw conveyor
Standard adapter and hardware kit



TA1107SCP Kit

TA1107SCP Screwa
Adjustable packing kit



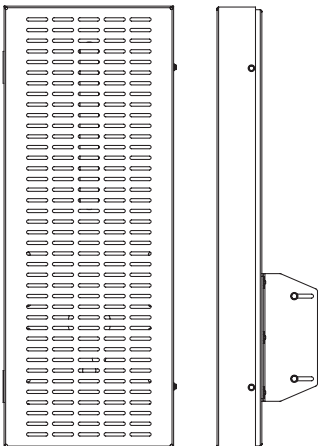
TA1107SCS x 1-7/16

TA1107SCS Screw conveyor drive
Shaft x 1-7/17" Diameter



TA1107BG

TA1107BG Belt guard



Selection

Torque-Arm II shaft mount speed reducers

When to use easy selection

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

How to select

Step 1: Determine class of service

See “Application Classification” table, page G1-6, to determine load classification for applications under normal conditions. Find the type application and duty cycle.

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

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

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

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

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

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

Step 2: Determine reducer size

From the easy selection, Class I, II or III, tables, pages G2-14 through G2-27, 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 Dodge TA II Taper Bushed reducers require bushings to mount reducer to driven shaft. Refer to reducer pages for available bushings. If the driven shaft is larger than the bore of the selected reducers, the shaft must be machined to the proper size, or select a larger reducer. Check driven shaft and key for strength.

Step 4: Check dimensions

See “Selection and Dimension” pages for reducer dimensions, weights, part numbers and Torque-Arm rod mounting positions. See “Engineering and Technical” pages for reducer mounting positions.

Step 5: Select a belt drive arrangement

From the sheave ratio information, pages G2-118 through G2-120, select a sheave ratio for the belt drive. The reducer sheave P.D., pitch diameter, should not be smaller than the minimum sheave diameter shown in the selection tables. Note: Mount the sheave as close as possible to the reducer to minimize the effect of overhung load on the reducer.

See Dodge drives components catalog to select sheaves, bushings and belts for the appropriate belt drive.

Step- 6: Select accessories

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

- Rod assembly
- Bushing kit
- Motor mount
- Backstop assembly
- Belt guard
- Cooling fan
- Screw Conveyor adapter
- Adjustable packing kit
- Drive shaft
- Harsh duty breathers
- Vertical breather kKit

Easy selection

method for electric motors for Torque-Arm II reducer and screw conveyor drive reducer applications

Note: Important information

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

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

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

TA II Backstop – For best life, select reducer gear ratios which exceed input shaft speeds required for backstop sprag lift-off. See page G1-127 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 Hp 1750 RPM motor is used to drive a belt conveyor moving sand at 70 RPM. The conveyor is uniformly loaded and operates 16 hours per day. The head pulley shaft diameter is 2-3/16”. The user specifications call for a means of holding the conveyor from moving backwards.

Step 1:

Determine class of service - From the table on page G1-7, 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 G2-20, find the column for 10 Hp and read down to 70 RPM. A reducer size TA3203H25 or TA3203H15 reducer is the correct selection. See Engineering/Technical pages to compare input and output speed and overhung load application requirements with reducer ratings.

Step 3:

Compare hollow shaft bore of a size TA3203H25 or TA3203H15 with the head pulley shaft diameter. Per page G2-53, 2-3/16” 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 Dimension” pages for reducer dimensions, weights, part numbers and other pertinent drive dimensions, as well as information on Torque-Arm rod mounting positions. See “Engineering and Technical” pages for information on reducer mounting positions.

Step 5:

Select a belt drive - From the sheave ratio information, pages G2-118 through G2-120, select a belt drive ratio for the conveyor speed of 70 RPM. Then select a belt drive, from the Dodge Drive components catalog, that meets the customer’s needs (service factor, minimum number of belts) and preferences (belt style, bushing mounting style, etc.) The sheave diameters must not be smaller than the minimum diameters shown in the selection tables.

Step 6: Select accessories

See “Selection and Dimensions” pages to pick out accessories for this application:

TA3203BS Backstop assembly, to hold the conveyor from moving backwards.

TA3203MM Motor mount assembly, for top mounting the motor to the reducer.

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

Easy Selection Method

for electric motors for Torque-Arm II reducer and screw conveyor drive reducer applications

Screw conveyor drive reducer application

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

Step 1: Determine class of service

From the table on page G1-7, 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 G2-20, find the column for 5 Hp 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 drive shaft to fit screw diameter.

See "Selection and Dimension" page G2-39. Here we verify that a 2-7/16" diameter drive shaft is compatible with a 12" diameter screw.

Step 5: Select a belt drive

From the sheave ratio information, pages G2-118 through G2-120, select a belt drive ratio for the conveyor speed of 70 RPM. Then select a belt drive, from the Dodge Drive components catalog, that meets the customer's needs (service factor, minimum number of belts) and preferences (belt style, bushing mounting style, etc.) The sheave diameters must not be smaller than the minimum diameters shown in the selection tables.

Step 6: Select accessories

See "Selection and Dimensions" pages to pick out screw conveyor accessories for this application.

TA1107SCA Adapter and hardware kit, to mount reducer to trough end of screw conveyor.

TA1107SCP Adjustable packing kit, to add additional sealing protection to reducer drive.

Application classification and class numbers Torque-Arm II shaft mount speed reducers

For Application Class and Service, please see pages G1-7 through G1-12.

Selection

Torque-Arm II shaft mount speed reducers

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

Name _____ Company name _____

Phone no. _____ Fax no. _____

Application data

Type of driven equipment _____

Hours of service per day _____ Class of service _____

Type of load Uniform _____ Moderate _____ Shock _____

Motor type Hp _____ RPM _____ Frame size _____ Shaft size _____

RPM of driven equipment _____ Driven shaft size _____

Type of reducer mounting Horizontal _____ Vertical: Input up _____

Input down Incline (degree of) _____

Unusual ambient temperature _____

Other pertinent application characteristics (i.e., dusty environment, reversing duty, start/stop cycles, etc.) _____

Reducer drive selection

Step 1 – Determine class of service _____

Step 2 – From appropriate service class table, select reducer size and ration that meets application Hp and driven RPM requirements

Twin taper bushed _____ 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

Screw conveyor shaft mount speed reducers

This is a handy reference sheet for quick selection and specification of Dodge screw conveyor drive reducers. Use it to identify information needed to make an accurate selection with a step-by-step selection format for choosing reducer, accessories and v-drive. Use this page to make your own selections or send this form, with application data to Dodge for assistance.

Name _____ Company name _____
Phone no. _____ Fax no. _____

Application data

Type of driven equipment _____
Hours of service per day _____ Class of service _____
Type of load Uniform _____ Moderate _____ Shock _____
Motor type Hp _____ RPM _____ Frame size _____ Shaft size _____
Screw conveyor RPM _____
Drive shaft 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 Hp and driven RPM requirements

Step 3 – Select drive shaft with diameter to fit screw size _____
Determine type of drive shaft 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

Class I - 1.0 service factor

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

~ See Page G2-130 for lubrication for 15 RPM and slower
† See page G3-60 and G3-61 for information on TDT1425 and TDT1530 reducers

Class I

Class I - 1.0 service factor

Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
3 (cont)	11-15	TA3203H32	4.6	—	4		TA8407H40	6.2	—	21-32		TA4207H40	4.7	—
		TA3203H25	4.6	—			TA8407H25	6.2	—			TA4207H25	5.2	—
		TA3203H15	4.6	—			TA8407H15	6.2	—			TA4207H15	7.7	—
	16-26	TA2115H33	3.7	—	5-6		TA7315H40	6.2	—	34-50		TA3203H32	4.1	—
		TA2115H25	3.3	—			TA7315H25	6.2	—			TA3203H25	4.3	—
		TA2115H15	3.2	—			TA7315H15	6.2	—			TA3203H15	4.3	—
	27-50	TA1107H31	4.6	—	7-9		TA6307H40	6.3	—	51-55		TA3203H25	4.2	—
		TA1107H25	5.7	—			TA6307H25	6.3	—			TA3203H15	4.2	—
		TA1107H15	5.2	—			TA6307H15	6.4	—			TA2115H25	3.1	—
	51-80	TA0107L25	4.0	—	10-15		TA5215H40	6.8	—	56-80		TA2115H15	3.6	—
		TA0107L15	4.0	—			TA5215H25	6.1	—			TA2115H15	3.7	—
		TA0107L15	4.0	—			TA5215H15	7.1	—			TA2115H09	6.1	—
	81-89	TA0107L15	4.0	—	16-25		TA4207H40	4.8	—	90-100		TA2115H15	3.7	—
		TA0107L09	5.3	—			TA4207H25	5.4	—			TA2115H09	6.2	—
		TA0107L15	4.0	—			TA4207H15	7.9	—			TA2115H05	6.5	—
	90-120	TA0107L09	5.2	—	26-39		TA3203H32	4.2	—	101		TA1107H15	4.5	—
		TA0107L05	9.2	—			TA3203H25	4.4	—			TA2115H09	6.2	—
		TA0107L05	8.3	—			TA3203H15	4.4	—			TA2115H05	6.5	—
	121-200	TA0107L05	8.3	—	7-1/2		TA2115H33	3.2	—	102-118		TA1107H15	4.5	—
		TA0107L05	6.9	—			TA2115H25	3.1	—			TA1107H09	7.4	—
		TA0107L05	6.9	—			TA2115H15	3.2	—			TA2115H05	6.6	—
	4	TA7315H40	6.2	—	40-50		TA2115H25	3.1	—	119-120		TA1107H15	4.4	—
		TA7315H25	6.2	—			TA2115H15	3.6	—			TA1107H09	7.1	—
		TA7315H15	6.2	—			TA2115H15	3.6	—			TA1107H05	11.2	—
	5-6	TA6307H40	6.3	—	51-72		TA1107H25	5.2	—	121-200		TA1107H09	7.1	—
		TA6307H25	6.3	—			TA1107H15	4.7	—			TA1107H05	11.2	—
		TA6307H15	6.4	—	73-80		TA1107H15	4.6	—	201-276		TA1107H05	9.1	—
	7-10	TA5215H40	6.8	—			TA1107H09	7.7	—			TA0107L05	5.8	—
		TA5215H25	6.1	—			TA1107H15	4.6	—	277-400		TA10507H40	8.5	—
		TA5215H15	7.1	—	81-89		TA1107H15	4.6	—			TA10507H25	8.5	—
	11-16	TA4207H40	5.0	—			TA1107H15	4.6	—			TA10507H15	10.8	—
		TA4207H25	5.5	—	90-120		TA1107H09	7.5	—	4		TA9415H40	8.0	—
		TA4207H15	8.1	—			TA1107H05	12.5	—			TA9415H25	8.0	—
	17-25	TA3203H32	4.4	—			TA1107H05	11.2	—			TA9415H15	10.2	—
		TA3203H25	4.5	—	121-145		TA0107L09	4.8	—	5-6		TA8407H40	6.2	—
		TA3203H15	4.5	—			TA0107H05	10.3	—			TA8407H25	6.2	—
	26	TA3203H32	4.2	—			TA0107L09	4.7	—			TA8407H15	6.2	—
		TA2115H25	3.2	—	146-163		TA0107L05	7.4	—	7-8		TA7315H40	6.2	—
		TA2115H15	3.1	—			TA0107L05	6.9	—			TA7315H25	6.2	—
	27-46	TA2115H33	3.6	—			TA9415H40	8.0	—	9-13		TA7315H15	6.2	—
		TA2115H25	3.2	—	10	4	TA9415H25	8.0	—			TA6307H40	6.3	—
		TA2115H15	3.1	—			TA9415H15	10.2	—			TA6307H25	6.3	—
	47-50	TA1107H31	4.4	—			TA8407H40	6.2	—	14-18		TA6307H15	6.3	—
		TA1107H25	5.4	—	5		TA8407H15	6.2	—			TA5215H40	6.5	—
		TA1107H15	4.9	—			TA7315H40	6.2	—			TA5215H25	5.9	—
	51-80	TA1107H25	5.4	—	6-8		TA7315H15	6.2	—	19-32		TA5215H15	6.8	—
		TA1107H15	4.9	—			TA6307H40	6.3	—			TA4207H40	4.5	—
		TA1107H15	4.6	—			TA6307H15	6.4	—			TA4207H25	5.0	—
	81-89	TA1107H09	7.7	—	9-12		TA5215H40	6.7	—	33-50		TA4207H15	7.3	—
		TA0107L15	4.0	—			TA5215H25	6.0	—			TA4207H25	4.7	—
	90-120	TA0107L09	5.2	—			TA5215H15	7.0	—			TA4207H15	6.8	—
		TA0107L05	9.2	—	13-20					51-53				
		TA0107L09	5.0	—										
		TA0107L05	8.3	—										
	121-200	TA0107L05	8.3	—	10	4				15				
		TA0107L05	6.9	—										
		TA0107L05	6.9	—										

~ See Page G2-130 for lubrication for 15 RPM and slower
† See page G3-60 and G3-61 for information on TDT1425 and TDT1530 reducers

Class I

Class I - 1.0 service factor

Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
15 (cont)	54-80	TA3203H25	4.1	–
		TA3203H15	4.2	–
	81-89	TA3203H15	4.0	–
		TA3203H09	5.2	–
	90-92	TA3203H15	4.0	–
		TA3203H09	5.3	–
	121-143	TA3203H05	11.0	–
		TA2115H15	3.7	–
	93-120	TA2115H09	6.2	–
		TA3203H05	10.4	–
	144-200	TA2115H09	6.1	–
		TA3203H05	7.7	–
	201-400	TA2115H09	6.5	–
		TA2115H05	6.4	–
	201-400	TA2115H05	6.0	–
20	4	TA12608H40	17.2	–
		TA12608H25	9.5	–
	5-6	TA12608H15	13.7	–
		TA10507H40	8.5	–
	7-8	TA10507H25	8.5	–
		TA10507H15	10.8	–
	9-11	TA9415H40	8.0	–
		TA9415H25	8.0	–
	12-18	TA9415H15	10.2	–
		TA8407H40	6.2	–
	19-25	TA8407H25	6.2	–
		TA8407H15	6.2	–
	26-45	TA7315H40	6.2	–
		TA7315H25	6.2	–
	46-50	TA7315H15	6.2	–
30	51-75	TA6307H40	6.3	–
		TA6307H25	6.3	–
	76-80	TA6307H15	6.3	–
		TA5215H40	6.4	–
	81-89	TA5215H25	5.7	–
		TA5215H15	6.7	–
	90-103	TA4207H40	4.3	–
		TA4207H25	4.7	–
	104-105	TA4207H15	7.0	–
		TA4207H09	4.7	–
	104-105	TA4207H25	4.7	–
		TA4207H15	6.8	–
	104-105	TA4207H09	4.4	–
		TA3203H15	4.1	–
	104-105	TA3203H15	4.0	–

Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
20 (cont)	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	—

Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
30 (cont)	7-9	TA10507H40	8.5	—
		TA10507H25	8.5	—
	10-12	TA10507H15	10.8	—
		TA9415H40	8.0	—
		TA9415H25	8.0	—
	13-18	TA9415H15	10.3	—
		TA8407H40	6.2	—
		TA8407H25	6.2	—
	19-28	TA8407H15	6.2	—
		TA7315H40	6.2	—
		TA7315H25	6.2	—
	29-30	TA7315H15	6.2	—
		TA6307H40	6.3	—
		TA6307H25	6.3	—
	31-39	TA6307H15	6.3	—
		TA6307H40	6.2	—
		TA6307H25	6.2	—
	40-50	TA6307H15	6.3	—
		TA5215H40	6.2	—
		TA5215H25	5.5	—
	51-72	TA5215H15	6.4	—
		TA5215H25	5.4	—
		TA5215H15	6.3	—
	73-80	TA4207H25	4.4	—
		TA4207H15	6.5	—
		TA4207H15	6.4	—
	81-89	TA4207H09	10.1	—
		TA4207H15	6.3	—
		TA4207H09	9.9	—
	90-120	TA5215H05	13.9	—
TA4207H09		9.3	—	
TA5215H05		11.8	—	
121-132	TA4207H09	9.1	—	
	TA4207H05	9.2	—	
	TA4207H05	9.3	—	
133-200	TA4207H05	9.3	—	
	TA4207H05	7.0	—	
	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 G2-130 for lubrication for 15 RPM and slower
† See page G3-60 and G3-61 for information on TDT1425 and TDT1530 reducers

Class I

Class I - 1.0 service factor

Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	
40 (cont)	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 RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	
50 (cont)	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 RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
60 (cont)	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
	TA6307H15		6.2	Fan
	81-89		TA6307H15	6.3
		TA6307H09	9.9	Fan
		TA6307H15	6.5	Fan
	90-101	TA6307H09	10.3	Fan
		TA7315H05	14.8	–
		TA6307H15	6.7	Fan
	102-120	TA6307H09	10.8	Fan
		TA6307H05	15.1	–
		121-129	TA6307H09	10.8
	TA6307H05		14.5	–
	130-196		TA5215H09	7.9
		TA6307H05	14.4	–
		TA5215H09	5.9	Fan
	197-200	TA6307H05	13.9	–
		201-208	TA6307H05	13.8
	209-400	TA5215H05	9.7	–

~ See Page G2-130 for lubrication for 15 RPM and slower
† See page G3-60 and G3-61 for information on TDT1425 and TDT1530 reducers

Class I

Class I - 1.0 service factor

Table 1					Table 2					Table 3							
Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method			
100	6-11	TDT1530 †	15.0	–	125 (cont)	41-50	TA9415H40	8.0	P&C	200 (cont)	52-67	TA12608H25	9.6	Fan			
	12-17	TDT1425 †	15.0	–			TA9415H25	8.0	P&C			TA12608H15	15.7	Fan			
	18-19	TA12608H40	17.1	Fan			TA9415H15	10.8	Fan			TA10507H25	8.8	P&C			
		TA12608H25	9.5	–			TA9415H25	8.0	P&C			TA10507H15	12.4	Fan			
		TA12608H15	14.4	–			TA9415H15	10.8	Fan			TA9415H25	8.0	P&C			
	20-22	TA12608H40	17.1	–			60-80	TA8407H25	6.2			P&C	TA10507H15	12.5	Fan		
		TA12608H25	9.5	–			TA8407H15	7.5	Fan			TA9415H25	8.0	P&C			
		TA12608H15	14.6	–			81-88	TA8407H15	7.8			Fan	TA9415H15	10.7	P&C		
	23-26	TA10507H40	8.5	Fan			91-120	89-90	TA7315H15			6.2	Fan	81-100	TA9415H15	10.5	P&C
		TA10507H25	8.5	Fan				TA7315H15	6.2			Fan	101-120	TA8407H15	8.7	P&C	
		TA10507H15	10.7	–				TA7315H09	8.5			Fan	172-200	TA7315H09	8.4	P&C	
	27-31	TA10507H40	8.5	Fan			121-149	TA7315H09	8.6			Fan	331-400	TA7315H05	10.8	Fan	
		TA10507H25	8.5	–			150-160	TA6307H09	10.9			Fan	16-30	TDT1530 †	15.0	–	
		TA10507H15	10.6	–			TA6307H09	10.8	Fan			31-43	TDT1425 †	15.0	Fan		
	32-46	TA9415H40	8.0	Fan			161-200	TA7315H05	11.9			–	44-50	TA12608H40	17.1	P&C	
		TA9415H25	8.0	Fan				201-225	TA7315H05			11.7		–	TA12608H25	9.5	P&C
		TA9415H15	10.8	Fan				226-368	TA6307H05			12.8		–	TA12608H15	15.7	P&C
	47-50	TA8407H40	6.2	Fan			369-400	TA6307H05	10.9			Fan	51-67	TA12608H25	10.4	P&C	
		TA8407H25	6.2	Fan			9-17	TDT1530 †	15.0			–		TA12608H15	16.1	P&C	
		TA8407H15	6.2	Fan				18-26	TDT1425 †			15.0		–	TA10507H25	9.2	P&C
	51-68	TA8407H25	6.2	Fan				27	TA12608H40			17.1	P&C	68-75	TA10507H15	13.0	P&C
		TA8407H15	7.0	Fan			TA12608H40		17.1			Fan	TA10507H25		9.4	P&C	
		TA7315H25	6.2	Fan			TA12608H25		9.5			Fan	TA10507H15		13.4	P&C	
	69-80	TA7315H15	6.2	Fan			28-34	TA12608H15	15.1			Fan	76-80	TA10507H15	13.6	P&C	
		TA7315H15	6.2	Fan				TA10507H40	8.5			P&C		81-90	TA10507H15	13.6	P&C
		TA7315H09	8.5	Fan				TA12608H25	9.5			Fan		91-120	TA9415H15	10.3	P&C
	81-110	TA6307H15	6.6	Fan			35-36	TA12608H15	15.2			Fan	37-52	TDT1530 †	15.0	–	
		TA6307H09	10.5	Fan				TA10507H40	8.5			P&C		37-52	TDT1425 †	15.0	P&C
		TA6307H15	6.7	Fan				TA10507H25	8.5			Fan		TA12608H25	10.7	P&C	
	112-120	TA6307H09	10.8	Fan			37-49	TA10507H15	11.3			–	81-83	TA12608H15	15.6	P&C	
TA7315H05		13.2	–	TA9415H40	8.0	P&C		84-115	TA10507H15	13.6	P&C						
TA6307H09		10.9	Fan	TA9415H25	8.0	P&C		116-120	TA9415H15	10.2	P&C						
121-157	TA7315H05	12.8	–	50	TA9415H15	10.8	Fan	23-42	TDT1530 †	15.0	Fan						
	TA6307H09	10.9	Fan		TA9415H25	8.0	P&C		43-61	TDT1425 †	15.0	P&C					
	TA6307H05	14.2	–		TA9415H15	10.8	Fan		TA12608H25	10.7	P&C						
158-200	TA6307H05	13.8	–	51-72	TA8407H25	6.2	P&C	62-80	TA12608H15	16.1	P&C						
	8-14	TDT1530 †	15.0		–	TA8407H15	7.5		Fan	81-103	TA12608H15	15.6	P&C				
	15-21	TDT1425 †	15.0		–	81-112	TA8407H15		8.6	Fan	104-120	TA10507H15	13.5	P&C			
22-26	TA12608H40	17.1	Fan	113	TA7315H15	6.2	Fan	27-50	TDT1530 †	15.0	Fan						
	TA12608H25	9.5	Fan		TA7315H15	6.2	Fan		51-70	TDT1425 †	15.0	P&C					
	TA12608H15	14.8	Fan		TA7315H09	8.5	Fan		TA12608H25	10.7	P&C						
27-28	TA12608H40	17.1	Fan	121-200	TA7315H09	8.6	Fan	71-80	TA12608H15	16.1	P&C						
	TA12608H25	9.5	Fan		213-400	TA7315H05	11.5		–	81-120	TA12608H15	15.6	P&C				
	TA12608H15	14.9	–		12-23	TDT1530 †	15.0		–	30-31	TDT1530 †	15.0	P&C				
29	TA10507H40	8.5	Fan	24-35	TDT1425 †	15.0	–	32-57	TDT1530 †	15.0	Fan						
	TA12608H25	9.5	Fan		TA12608H40	17.1	P&C		59-75	TDT1425 †	15.0	P&C					
	TA12608H15	14.9	–		36-47	TA12608H25	9.5		Fan	84-120	TA12608H15	15.5	P&C				
30-40	TA10507H40	8.5	Fan	48-50	TA12608H15	15.6	Fan	34-57	TDT1530 †	15.0	P&C						
	TA10507H25	8.5	Fan		TA10507H40	8.5	P&C		66-75	TDT1425 †	15.0	P&C					
	TA10507H15	10.8	Fan		TA12608H25	9.5	P&C		97-120	TA12608H15	15.1	P&C					
										600	41-57	TDT1530 †	15.0	P&C			
										700	50-57	TDT1530 †	15.0	P&C			

~ See Page G2-130 for lubrication for 15 RPM and slower
† See page G3-60 and G3-61 for information on TDT1425 and TDT1530 reducers

Class II

Class II - 1.4 service factor

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

Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
3/4 (cont)	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	–
	12-21	TA2115H15	3.3	–
		TA1107H31	4.9	–
	22-50	TA1107H25	6.3	–
		TA1107H15	5.5	–
		TA0107L31	4.0	–
	51-80	TA0107L25	4.0	–
		TA0107L15	4.0	–
	81-89	TA0107L25	4.0	–
		TA0107L15	4.0	–
		TA0107L09	5.3	–
1-1/2	90-120	TA0107L15	4.0	–
		TA0107L09	5.2	–
		TA0107L05	9.2	–
	121-200	TA0107L09	5.0	–
		TA0107L05	8.3	–
	201-400	TA0107L05	6.9	–
	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	–
	18-34	TA2115H15	3.3	–
		TA1107H31	4.8	–
		TA1107H25	5.9	–
		TA1107H15	5.3	–

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

~ See Page G2-130 for lubrication for 15 RPM and slower

† See page G3-60 and G3-61 for information on TDT1425 and TDT1530 reducers

Class II

Class II - 1.4 service factor

	Motor Hp	Output RPM	Reducer selection	sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	sheave dia. P.D.	Cooling method					
Reference Guide	3 (cont)	39-50	TA1107H31	4.5	—	7-1/2 (cont)	5-6	TA8407H40	6.2	—	10 (cont)	30-49	TA4207H40	4.5	—					
			TA1107H25	5.5	—			TA8407H25	6.2	—			TA4207H25	5.0	—					
			TA1107H15	5.0	—			TA8407H15	6.2	—			TA4207H15	7.4	—					
			51-73	TA1107H25	5.4			—	7-9	TA7315H40			6.2	—	50	TA3203H32	4.0	—		
				TA1107H15	4.9			—		TA7315H25			6.2	—		TA3203H25	4.2	—		
			74-80	TA0107L25	4.0			—	10-13	TA7315H15			6.2	—	51-80	TA3203H15	4.2	—		
		TA0107L15		4.0	—		TA6307H40	6.3		—		TA3203H25	4.2	—						
		Motorized Torque-Arm II	3 (cont)	81-89	TA0107L15		4.0	—	14-21	TA6307H25		6.3	—	10 (cont)	81-84	TA3203H15	4.0	—		
					TA0107L09		5.3	—		TA6307H15		6.4	—			85-89	TA3203H09	5.1	—	
					TA0107L15		4.0	—		22-35		TA5215H40	6.7				—	90-120	TA2115H15	3.7
					TA0107L09		5.2	—				TA5215H25	6.0			—	TA2115H09		6.2	—
					90-120		TA0107L05	9.2		—		36-50	TA5215H15			7.0	—	121-127	TA2115H09	6.1
TA0107L09	5.0					—	TA4207H40	4.7		—	TA3203H05		7.7			—				
Torque-Arm II	3 (cont)			121-200	TA0107L05	8.3	—	51-58	TA4207H25	5.2	—	15	128-162		TA2115H15	3.7	—			
					TA0107L05	6.9	—		TA4207H15	7.7	—				163-200	TA2115H09	6.2	—		
					4	TA8407H40	6.2		—	59-80	TA3203H32					4.1	—	201-209	TA3203H05	11.0
						TA8407H25	6.2		—		TA3203H25				4.3	—	TA2115H09		6.1	—
						TA8407H15	6.2		—		TA3203H15				4.3	—	TA3203H05	7.7	—	
					5-6	TA7315H40	6.2		—	81-89	TA3203H25				4.2	—	210-400	TA2115H09	6.2	—
		TA7315H25	6.2	—		TA3203H15	4.2	—	TA2115H05		6.5		—							
		TA7315H15	6.2	—		TA2115H25	3.1	—	TA2115H05		6.3		—							
		Torque-Arm	5	7-8	TA6307H40	6.3	—	90-105	TA2115H15	3.6	—		15	4	TA2115H05	6.0	—			
					TA6307H25	6.3	—		TA2115H15	3.7	—				5-6	TA1107H05	8.9	—		
					TA6307H15	6.4	—		TA2115H09	6.1	—					TA12608H40	17.2	—		
				9-14	TA5215H40	6.8	—	106-108	TA2115H15	3.7	—			7-8	TA12608H25	9.5	—			
TA5215H25	6.1				—	TA2115H09	6.2		—	TA12608H15	13.7	—								
TA5215H15	7.1				—	TA2115H05	6.5		—	TA10507H40	8.5	—								
15-23	TA4207H40			4.9	—	109-120	TA1107H15	4.5	—	9-12	TA10507H25	8.5		—						
	TA4207H25			5.4	—		TA1107H09	7.3	—		TA10507H15	10.8		—						
	TA4207H15			7.9	—		TA2115H05	6.6	—		TA9415H40	8.0		—						
Bulk Material Handling	7-1/2			24-36	TA3203H32	4.3	—	121-127	TA1107H15	4.5	—	15		13-19	TA9415H25	8.0	—			
					TA3203H25	4.4	—		TA1107H09	7.0	—				TA9415H15	10.2	—			
					TA3203H15	4.4	—		TA2115H05	6.6	—				TA8407H40	6.2	—			
		37-50	TA2115H33	3.3	—	201-306	TA1107H09	7.1	—	20-26	TA8407H25		6.2	—						
			TA2115H25	3.1	—		TA2115H05	6.6	—		TA8407H15		6.2	—						
			TA2115H15	3.2	—		TA1107H09	7.0	—		TA7315H40		6.2	—						
		51-67	TA2115H25	3.1	—	307-400	TA1107H05	10.9	—	27-47	TA7315H25		6.2	—						
			TA2115H15	3.5	—		TA1107H05	9.1	—		TA7315H15		6.2	—						
			TA1107H25	5.2	—		TA0107L05	5.5	—		TA6307H40		6.3	—						
		68-80	TA1107H15	4.7	—	4	TA10507H40	8.5	—	48-50	TA6307H25		6.3	—						
			TA1107H15	4.6	—		TA10507H25	8.5	—		TA6307H15		6.3	—						
			TA1107H09	7.7	—		TA10507H15	10.8	—		TA5215H40		6.4	—						
81-89	TA1107H15	4.6	—	5	TA9415H40	8.0	—	51-80	TA5215H25	5.7	—									
	TA1107H09	7.5	—		TA9415H25	8.0	—		TA5215H15	6.6	—									
	TA1107H05	12.5	—		TA9415H15	10.2	—		TA4207H40	4.2	—									
90-120	TA1107H09	7.1	—	6-8	TA8407H40	6.2	—	81	TA4207H25	4.7	—									
	TA1107H05	11.2	—		TA8407H25	6.2	—		TA4207H15	6.9	—									
	TA0107L09	5.0	—		TA8407H15	6.2	—		TA4207H25	4.7	—									
121-131	TA0107L09	10.8	—	9-12	TA7315H40	6.2	—	82-89	TA4207H15	6.8	—									
	TA0107H05	10.8	—		TA7315H25	6.2	—		TA4207H15	6.8	—									
	TA0107L09	4.8	—		TA7315H15	6.2	—		TA3203H15	4.0	—									
147-200	TA0107L05	7.7	—	13-17	TA6307H40	6.3	—	90-92	TA4207H09	10.1	—									
	TA0107L05	6.9	—		TA6307H25	6.3	—		TA3203H15	4.0	—									
	TA0107L05	6.9	—		TA6307H15	6.3	—		TA3203H09	5.2	—									
201-400	TA9415H40	8.0	—	18-29	TA5215H40	6.6	—	90-92	TA3203H15	4.0	—									
	TA9415H25	8.0	—		TA5215H25	5.9	—		TA3203H09	5.3	—									
	TA9415H15	10.2	—		TA5215H15	6.8	—		TA5215H05	13.9	—									

Class II

Class II - 1.4 service factor

Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
15 (cont)	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	–
	9-11	TA10507H15	10.8	–
		TA9415H40	8.0	–
		TA9415H25	8.0	–
	12-17	TA9415H15	10.3	–
		TA8407H40	6.2	–
		TA8407H25	6.2	–
25	18-26	TA8407H15	6.2	–
		TA7315H40	6.2	–
		TA7315H25	6.2	–
	27-36	TA7315H15	6.2	–
		TA6307H40	6.3	–
		TA6307H25	6.3	–
	37-50	TA6307H15	6.3	–
		TA5215H40	6.2	–
		TA5215H25	5.6	–
	51-67	TA5215H15	6.5	–
		TA5215H05	5.4	–
		TA5215H05	6.3	–
30	68-80	TA4207H25	4.5	–
		TA4207H15	6.6	–
		TA4207H15	6.4	–
	81-89	TA4207H09	10.1	–
		TA4207H15	6.3	–
		TA4207H09	9.9	–
	90-115	TA5215H05	13.9	–
		TA4207H15	5.9	–
	116-120	TA3203H09	5.6	–
		TA5215H05	12.1	–
	121-123	TA3203H09	5.6	–
		TA5215H05	11.8	–
40	124-194	TA3203H09	5.7	–
		TA4207H05	9.3	–
		TA3203H09	5.5	–
	195-200	TA3203H05	7.0	–
		TA3203H05	7.0	–
	201-400	TA3203H05	7.0	–
		TA3203H05	7.0	–
	4-6	TDT1425 †	15.0	–
		TA12608H40	17.2	–
		TA12608H25	9.5	–
	7	TA12608H15	13.7	–
		TA12608H15	13.7	–
		TA12608H15	13.7	–

Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
25 (cont)	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	–
30	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	–
		TA5215H15	6.0	–
	81-87	TA5215H09	9.1	–
		TA4207H15	6.3	–
		TA5215H09	8.9	–
40	88-89	TA4207H15	6.3	–
		TA5215H09	8.9	–
		TA4207H15	6.3	–
	90-91	TA5215H09	8.9	–
		TA5215H05	13.9	–
		TA4207H15	6.3	–
	92-120	TA4207H09	9.8	–
		TA5215H05	13.7	–
		TA4207H09	9.3	–
	121-154	TA5215H05	11.8	–
		TA4207H09	8.7	–
		TA4207H05	9.2	–
40	155-200	TA4207H05	9.8	–
		TA4207H05	9.8	–
		TA4207H05	9.8	–
	201-269	TA3203H05	7.0	–
		TA3203H05	7.0	–
		TA3203H05	7.0	–
	270-400	TA3203H05	7.0	–
		TA3203H05	7.0	–
		TA3203H05	7.0	–
	4	TDT1530 †	15.0	–
		TDT1425 †	15.0	–
		TDT1425 †	15.0	–
40	5-7	TA12608H40	17.2	–
		TA12608H25	9.5	–
		TA12608H15	13.7	–
	8	TA10507H40	8.5	–
		TA10507H25	8.5	–
		TA10507H15	10.8	–
	9-12	TA9415H40	8.0	–
		TA9415H25	8.0	–
		TA9415H15	10.6	–
	13-18	TA8407H40	6.2	–
		TA8407H25	6.2	–
		TA8407H15	6.2	–
40	19-26	TA7315H40	6.2	–
		TA7315H25	6.2	–
		TA7315H15	6.2	–
	27-41	TA6307H40	6.2	–
		TA6307H25	6.2	–
		TA6307H15	6.2	–
	42-50	TA6307H40	6.2	–
		TA6307H25	6.2	–
		TA6307H15	6.2	–
	42-50	TA6307H40	6.2	–
		TA6307H25	6.2	–
		TA6307H15	6.2	–

Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
30 (cont)	51-56	TA6307H25	6.2	–
		TA6307H15	6.2	–
		TA6307H15	6.2	–
	57-80	TA5215H25	5.4	–
		TA5215H15	6.2	–
		TA5215H15	6.0	–
	81-89	TA5215H09	9.1	–
		TA5215H15	5.7	–
		TA5215H09	8.9	–
	90-110	TA5215H05	13.9	–
		TA4207H15	6.0	–
		TA4207H15	6.0	–
40	111-114	TA5215H09	8.5	–
		TA5215H05	12.4	–
		TA4207H15	5.9	–
	115-120	TA4207H09	9.4	–
		TA5215H05	12.1	–
		TA4207H09	9.3	–
	121-195	TA5215H05	11.8	–
		TA4207H09	7.8	–
		TA4207H05	9.2	–
	196-200	TA4207H05	9.8	–
		TA4207H05	9.8	–
		TA4207H05	9.8	–
40	201-348	TA3203H05	7.0	–
		TA3203H05	7.0	–
		TA3203H05	7.0	–
	349-400	TDT1530 †	15.0	–
		TDT1425 †	15.0	–
		TDT1425 †	15.0	–
	4-6	TA12608H40	17.2	–
		TA12608H25	9.5	–
		TA12608H15	13.9	–
	10-12	TA10507H40	8.5	–
		TA10507H25	8.5	–
		TA10507H15	10.8	–
40	13-17	TA9415H40	8.0	–
		TA9415H25	8.0	–
		TA9415H15	10.7	–
	18-24	TA8407H40	6.2	–
		TA8407H25	6.2	–
		TA8407H15	6.2	–
	25-36	TA7315H40	6.2	–
		TA7315H25	6.2	–
		TA7315H15	6.2	–
	37-50	TA7315H25	6.2	–
		TA7315H15	6.2	–
		TA7315H15	6.2	–
40	51-56	TA6307H25	6.2	–
		TA6307H15	6.2	–
		TA6307H15	6.2	–
	57-78	TA5215H25	5.2	–
		TA5215H15	6.0	–
		TA5215H15	6.0	–
	79-80	TA5215H15	6.0	–
		TA5215H15	6.0	–
		TA5215H15	6.0	–
	81-85	TA6307H09	9.8	–
		TA6307H09	9.8	–
		TA6307H09	9.8	–
40	86-89	TA5215H15	5.8	–
		TA5215H09	9.0	–
		TA5215H15	5.7	–
	90-112	TA5215H09	8.9	–
		TA6307H05	15.1	–
		TA5215H15	5.1	–
	113-120	TA5215H09	8.4	–
		TA5215H05	12.3	–
		TA5215H09	8.3	–
	121-173	TA5215H05	11.8	–
		TA5215H05	11.8	–
		TA5215H05	11.8	–

~ See Page G2-130 for lubrication for 15 RPM and slower
† See page G3-60 and G3-61 for information on TDT1425 and TDT1530 reducers

Class II

Class II - 1.4 service factor

	Reference Guide					Motorized Torque-Arm II					Torque-Arm II					Torque-Arm					Bulk Material Handling																																																																																																																																																																																																																																																																																																																																																																						
	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method																																																																																																																																																																																																																																																																																																																																																																		
Reference Guide	40 (cont)	174-200	TA4207H09	8.2	–	60 (cont)	27-38	TA9415H40	8.0	Fan	75 (cont)	170-200	TA6307H09	10.7	Fan	100																																																																																																																																																																																																																																																																																																																																																																											
			TA5215H05	10.4	–			TA9415H25	8.0	–			TA6307H05	14.0	–																																																																																																																																																																																																																																																																																																																																																																												
		201-299	TA5215H05	9.9	–				TA9415H15	10.8			–	201-400	TA6307H05												13.8	–	8-16	TDT1530 †	15.0	–																																																																																																																																																																																																																																																																																																																																																											
		300-400	TA4207H05	8.8	–				TA8407H40	6.2			Fan	17-24	TDT1425 †												15.0	–																																																																																																																																																																																																																																																																																																																																																															
		5-8	TDT1530 †	15.0	–			39-50	TA8407H25	6.2			–		25-32												TA12608H40	17.1	–																																																																																																																																																																																																																																																																																																																																																														
			9-12	TDT1425 †	15.0				–	TA8407H15			6.2														–	TA12608H25	9.5											–	TA12608H15	15.1	–																																																																																																																																																																																																																																																																																																																																																
	13-15		TA12608H40	17.1	–		51-56	TA8407H25	6.2	–			33	TA10507H40	8.5		Fan																																																																																																																																																																																																																																																																																																																																																																										
			TA12608H25	9.5	–			TA7315H25	6.2	–				TA12608H15	15.1		–																																																																																																																																																																																																																																																																																																																																																																										
		TA12608H15	14.1	–	57-80		TA7315H15	6.2	–			34-45	TA10507H25	8.5	–																																																																																																																																																																																																																																																																																																																																																																												
		TA10507H40	8.5	–			TA7315H09	8.1	–				TA10507H15	11.1	–																																																																																																																																																																																																																																																																																																																																																																												
		16-21		TA10507H25	8.5		–	81-89	TA6307H15	6.7		–		46-50	TA9415H40		8.0	Fan																																																																																																																																																																																																																																																																																																																																																																									
				TA10507H15	10.8		–		TA6307H09	10.8		–			TA9415H25		8.0	Fan																																																																																																																																																																																																																																																																																																																																																																									
	50	22-31		TA9415H40	8.0		–	75	90-120	TA6307H09		10.8	–	125	104-120		TA7315H09	8.5	Fan	150	37-50	TA12608H25	9.5	Fan	51-54	86-120	TA8407H15	10.5	Fan																																																																																																																																																																																																																																																																																																																																																														

Class II

Class II - 1.4 service factor

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

~ See Page G2-130 for lubrication for 15 RPM and slower

† See page G3-60 and G3-61 for information on TDT1425 and TDT1530 reducers

Class III

Class III - 2.0 service factor

	Reference Guide					Motorized Torque-Arm II					Torque-Arm II					Torque-Arm					Bulk Material Handling								
	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method	Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method				
Reference Guide	1/4	4	TA2115H33	3.7	—	3/4	4-5	TA4207H40	5.0	—	1-1/2 (cont)	7-10	TA4207H40	5.0	—	2		TA4207H40	5.0	—	3		TA7315H40	6.2	—				
			TA2115H25	3.3	—			TA4207H25	5.5	—			TA4207H25	5.5	—			TA7315H25	6.2	—									
			TA2115H15	3.3	—			TA4207H15	8.1	—			TA4207H15	8.1	—			TA7315H15	6.2	—									
		5-7	TA1107H31	5.0	—		6-7	TA3203H32	4.6	—		11-15	TA3203H32	4.6	—			TA3203H32	4.6	—			TA3203H32	4.6	—		TA6307H40	6.3	—
			TA1107H25	6.4	—			TA3203H25	4.6	—			TA3203H25	4.6	—			TA3203H25	4.6	—			TA6307H25	6.3	—				
			TA1107H15	5.5	—			TA3203H15	4.6	—			TA3203H15	4.6	—			TA3203H15	4.6	—			TA6307H15	6.4	—				
		8-50	TA0107L31	4.0	—		8-12	TA2115H33	3.7	—		16-26	TA2115H33	3.7	—			TA2115H33	3.7	—			TA2115H33	3.7	—		TA7315H15	6.2	—
			TA0107L25	4.0	—			TA2115H25	3.3	—			TA2115H25	3.3	—			TA2115H25	3.3	—			TA7315H25	6.2	—				
			TA0107L15	4.0	—			TA2115H15	3.3	—			TA2115H15	3.2	—			TA2115H15	3.2	—			TA7315H15	6.2	—				
		51-80	TA0107L25	4.0	—		13-23	TA1107H31	4.9	—		27-50	TA1107H31	4.6	—			TA1107H31	4.6	—			TA1107H31	4.6	—		TA7315H25	6.2	—
			TA0107L15	4.0	—			TA1107H25	6.2	—			TA1107H25	5.7	—			TA1107H25	5.7	—			TA7315H15	6.2	—				
			TA0107L15	4.0	—			TA1107H15	5.5	—			TA1107H15	5.2	—			TA1107H15	5.2	—			TA6307H40	6.3	—				
		81-89	TA0107L09	5.3	—		24-50	TA0107L31	4.0	—		51-80	TA0107L25	4.0	—			TA0107L25	4.0	—			TA0107L25	4.0	—		TA6307H25	6.3	—
			TA0107L15	4.0	—			TA0107L25	4.0	—			TA0107L15	4.0	—			TA0107L15	4.0	—			TA6307H15	6.4	—				
			TA0107L05	9.2	—			TA0107L15	4.0	—			TA0107L09	5.3	—			TA0107L09	5.3	—			TA6307H15	6.4	—				
		90-120	TA0107L09	5.2	—		51-80	TA0107L15	4.0	—		81-89	TA0107L15	4.0	—			TA0107L15	4.0	—			TA0107L15	4.0	—		TA6307H15	6.4	—
			TA0107L05	9.2	—			TA0107L15	4.0	—			TA0107L09	5.3	—			TA0107L09	5.3	—			TA6307H15	6.4	—				
TA0107L05	8.3		—	TA0107L15	4.0	—		TA0107L09	5.3	—	TA0107L05		9.2	—	TA6307H15	6.4		—											
201-400	TA0107L05	6.9	—	81-89	TA0107L09	5.3	—	90-120	TA0107L09	5.2	—	121-200	TA0107L09	5.0	—	201-400	TA0107L05	6.9	—										
Motorized Torque-Arm II	1/4	4-5	TA2115H33	3.7	—	3/4	90-120	TA0107L09	5.2	—	1-1/2 (cont)	121-200	TA0107L05	9.2	—	2		TA0107L05	9.2	—	3		TA7315H40	6.2	—				
			TA2115H25	3.3	—			TA0107L05	9.2	—			TA0107L05	9.2	—			TA7315H25	6.2	—									
			TA2115H15	3.3	—			TA0107L05	8.3	—			TA0107L05	8.3	—			TA7315H15	6.2	—									
		6-9	TA1107H31	5.0	—		121-200	TA0107L09	5.0	—		201-400	TA0107L09	5.0	—			TA0107L09	5.0	—			TA0107L09	5.0	—		TA7315H25	6.2	—
			TA1107H25	6.4	—			TA0107L05	9.2	—			TA0107L05	9.2	—			TA0107L05	9.2	—			TA7315H15	6.2	—				
			TA1107H15	5.5	—			TA0107L05	8.3	—			TA0107L05	8.3	—			TA0107L05	8.3	—			TA7315H25	6.2	—				
		10-50	TA0107L31	4.0	—		201-400	TA0107L05	6.9	—		4-5	TA6307H40	6.3	—			TA6307H40	6.3	—			TA6307H40	6.3	—		TA7315H15	6.2	—
			TA0107L25	4.0	—			TA0107L05	6.8	—			TA6307H25	6.3	—			TA6307H25	6.3	—			TA7315H25	6.2	—				
			TA0107L15	4.0	—			TA0107L05	6.8	—			TA6307H15	6.4	—			TA6307H15	6.4	—			TA7315H15	6.2	—				
		51-80	TA0107L25	4.0	—		4	TA5215H40	6.8	—		6-8	TA5215H40	6.8	—			TA5215H40	6.8	—			TA5215H40	6.8	—		TA7315H25	6.2	—
			TA0107L15	4.0	—			TA5215H25	6.1	—			TA5215H25	6.1	—			TA5215H25	6.1	—			TA7315H15	6.2	—				
			TA0107L15	4.0	—			TA5215H15	7.1	—			TA5215H15	7.1	—			TA5215H15	7.1	—			TA7315H25	6.2	—				
		81-89	TA0107L25	4.0	—		5-6	TA4207H40	5.0	—		9-13	TA4207H40	5.0	—			TA4207H40	5.0	—			TA4207H40	5.0	—		TA7315H15	6.2	—
			TA0107L15	4.0	—			TA4207H25	5.5	—			TA4207H25	5.5	—			TA4207H25	5.5	—			TA7315H25	6.2	—				
			TA0107L15	4.0	—			TA4207H15	8.1	—			TA4207H15	8.1	—			TA4207H15	8.1	—			TA7315H15	6.2	—				
		90-120	TA0107L09	5.3	—		7-10	TA3203H32	4.6	—		14-20	TA3203H32	4.6	—			TA3203H32	4.6	—			TA3203H32	4.6	—		TA7315H25	6.2	—
			TA0107L15	4.0	—			TA3203H25	4.6	—			TA3203H25	4.6	—			TA3203H25	4.6	—			TA7315H15	6.2	—				
TA0107L05	9.2		—	TA2115H33	3.7	—		TA3203H15	4.6	—	TA3203H15		4.6	—	TA7315H25	6.2		—											
121-200	TA0107L09	5.0	—	11-16	TA2115H33	3.7	—	21-36	TA2115H33	3.6	—		TA2115H33	3.6	—		TA2115H33	3.6	—		TA7315H15	6.2	—						
	TA0107L05	8.3	—		TA2115H25	3.3	—		TA2115H25	3.3	—		TA2115H25	3.3	—		TA7315H25	6.2	—										
	TA0107L05	8.3	—		TA2115H15	3.3	—		TA2115H15	3.3	—		TA2115H15	3.2	—		TA7315H15	6.2	—										
201-400	TA0107L05	6.9	—	17	TA1107H31	4.8	—	37-50	TA1107H31	4.5	—	51-69	TA1107H31	4.5	—	70-80	TA1107H31	4.5	—	81-89	TA1107H31	4.5	—						
Torque-Arm	1/4	4-5	TA3203H32	4.6	—	1	18-32	TA1107H31	4.8	—	2	37-50	TA1107H25	5.6	—	3		TA1107H25	5.6	—	3		TA7315H40	6.2	—				
			TA3203H15	4.6	—			TA1107H25	5.4	—			TA1107H25	5.6	—			TA7315H25	6.2	—									
			TA2115H33	3.7	—			TA1107H15	5.3	—			TA1107H15	5.0	—			TA7315H15	6.2	—									
		6-8	TA2115H25	3.3	—		33-50	TA1107H15	5.3	—		51-69	TA1107H15	4.9	—			TA1107H15	4.9	—			TA1107H15	4.9	—		TA7315H25	6.2	—
			TA2115H15	3.3	—			TA0107L31	4.0	—			TA1107H25	5.4	—			TA1107H25	5.4	—			TA7315H15	6.2	—				
			TA1107H31	5.0	—			TA0107L25	4.0	—			TA1107H15	4.9	—			TA1107H15	4.9	—			TA7315H25	6.2	—				
		9-15	TA1107H25	6.4	—		51-80	TA0107L15	4.0	—		70-80	TA0107L25	4.0	—			TA0107L25	4.0	—			TA0107L25	4.0	—		TA7315H15	6.2	—
			TA1107H15	5.5	—			TA0107L15	4.0	—			TA0107L15	4.0	—			TA0107L15	4.0	—			TA7315H25	6.2	—				
			TA0107L31	4.0	—			TA0107L15	4.0	—			TA0107L09	5.3	—			TA0107L09	5.3	—			TA7315H15	6.2	—				
		16-50	TA0107L25	4.0	—		81-89	TA0107L15	4.0	—		90-120	TA0107L15	4.0	—			TA0107L15	4.0	—			TA0107L15	4.0	—		TA7315H25	6.2	—
			TA0107L15	4.0	—			TA0107L15	4.0	—			TA0107L09	5.3	—			TA0107L09	5.3	—			TA7315H15	6.2	—				
			TA0107L15	4.0	—			TA0107L09	5.3	—			TA0107L05	9.2	—			TA0107L05	9.2	—			TA7315H25	6.2	—				
		51-80	TA0107L25	4.0	—		90-120	TA0107L15	4.0	—		121-200	TA0107L09	5.0	—			TA0107L09	5.0	—			TA0107L09	5.0	—		TA7315H15	6.2	—
			TA0107L15	4.0	—			TA0107L05	9.2	—			TA0107L05	9.2	—			TA0107L05	9.2	—			TA7315H25	6.2	—				
			TA0107L15	4.0	—			TA0107L05	8.3	—			TA0107L05	8.3	—			TA0107L05	8.3	—			TA7315H15	6.2	—				
		81-89	TA0107L09	5.3	—		121-200	TA0107L09	5.0	—		201-400	TA0107L05	6.9	—		4-5	TA6307H40	6.3	—		6-7	TA6307H25	6.3	—				
		Bulk Material Handling	1/2	90-120	TA0107L05		9.2	—	1-1/2	4-6		TA5215H40	6.8	—	3			TA6307H40	6.3	—		3		TA6307H40	6.3	—	3		TA7315H40
TA0107L09	5.2				—	TA5215H25	6.1	—			TA6307H25	6.3	—	TA7315H25		6.2		—											
TA0107L05	9.2				—	TA5215H15	7.1	—			TA6307H15	6.4	—	TA7315H15		6.2		—											
121-200	TA0107L09			5.0	—		TA5215H25	6.1		—		TA6307H25	6.3	—			TA6307H25	6.3	—		TA6307H25		6.3	—		TA7315H25		6.2	—
	TA0107L05			8.3	—		TA5215H15	7.1		—		TA6307H15	6.4	—			TA6307H15	6.4	—		TA7315H15		6.2	—					
	TA0107L05			6.9	—		TA5215H40	6.8		—		TA6307H15	6.4	—			TA6307H15	6.4	—		TA7315H25		6.2	—					

Class III

Class III - 2.0 service factor

Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
3 (cont)	8-12	TA5215H40	6.8	–
		TA5215H25	6.1	–
		TA5215H15	7.1	–
		TA4207H40	4.9	–
	13-20	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	–
	51-56	TA2115H15	3.2	–
		TA2115H25	3.1	–
	57-80	TA2115H15	3.3	–
		TA1107H25	5.3	–
		TA1107H15	4.8	–
	81-89	TA1107H15	4.6	–
		TA1107H09	7.7	–
		TA1107H15	4.6	–
	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	–
		TA9415H40	8.0	–
5	4	TA9415H25	8.0	–
		TA9415H15	10.2	–
		TA8407H40	6.2	–
		TA8407H25	6.2	–
	5	TA8407H15	6.2	–
		TA7315H40	6.2	–
	6-8	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 RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
5 (cont)	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	–
	119-120	TA2115H05	6.6	–
		TA1107H15	4.4	–
		TA1107H09	7.1	–
	121-200	TA1107H05	11.2	–
		TA1107H09	7.1	–
		TA1107H05	11.2	–
	201-276	TA1107H05	9.1	–
		TA0107L05	5.8	–
		TA10507H40	8.5	–
	4	TA10507H25	8.5	–
		TA10507H15	10.8	–
		TA9415H40	8.0	–
	5-6	TA9415H25	8.0	–
		TA9415H15	10.2	–
		TA8407H40	6.2	–
	7-8	TA8407H25	6.2	–
		TA8407H15	6.2	–
		TA7315H40	6.2	–
	9-13	TA7315H40	6.2	–
		TA7315H25	6.2	–
		TA7315H15	6.2	–
	14-18	TA6307H40	6.3	–
		TA6307H25	6.3	–
		TA6307H15	6.3	–
7-1/2	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	–
		TA3203H25	4.1	–
	54-80	TA3203H15	4.2	–
		TA3203H15	4.0	–
		TA3203H09	5.2	–
	81-89	TA3203H09	5.2	–
		TA3203H15	4.0	–
		TA3203H15	4.0	–
	90-92	TA3203H09	5.3	–
		TA3203H05	11.0	–
		TA2115H15	3.7	–
	93-120	TA2115H09	6.2	–
		TA3203H05	10.4	–
		TA2115H09	6.1	–
	121-143	TA3203H05	7.7	–
		TA2115H09	6.3	–
	144-181	TA2115H09	6.3	–
		TA2115H05	6.4	–

Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
7-1/2 (cont)	182-200	TA1107H09	6.2	–
		TA2115H05	6.2	–
		TA2115H05	6.0	–
	201-237	TA2115H05	6.0	–
		TA1107H05	8.4	–
	238-400	TA12608H40	17.2	–
		TA12608H25	9.5	–
		TA12608H15	13.7	–
	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	–
10	9-11	TA8407H25	6.2	–
		TA8407H15	6.2	–
		TA7315H40	6.2	–
	12-18	TA7315H25	6.2	–
		TA7315H15	6.2	–
		TA6307H40	6.3	–
	19-25	TA6307H25	6.3	–
		TA6307H15	6.3	–
		TA5215H40	6.4	–
	26-45	TA5215H25	5.7	–
		TA5215H15	6.7	–
		TA4207H40	4.3	–
	46-50	TA4207H25	4.7	–
		TA4207H15	7.0	–
		TA4207H25	4.7	–
	51-75	TA4207H15	6.8	–
		TA3203H25	4.0	–
		TA3203H15	4.1	–
	76-80	TA3203H15	4.0	–
		TA3203H09	5.2	–
		TA3203H15	4.0	–
	81-89	TA3203H09	5.4	–
		TA4207H05	9.9	–
		TA3203H15	4.0	–
	90-105	TA3203H09	5.6	–
		TA3203H05	8.6	–
		TA3203H09	5.7	–
	106-120	TA3203H05	7.7	–
		TA2115H09	6.5	–
		TA3203H05	7.2	–
	121-141	TA2115H09	7.0	–
		TA3203H05	5.7	–
		TA3203H05	7.2	–
	142-200	TA3203H05	7.0	–
		TA2115H05	5.7	–
		TA2115H05	5.7	–
15	201-238	TA2115H05	15.0	–
		TA2115H05	15.0	–
		TA2115H05	15.0	–
	239-400	TA2115H05	15.0	–
		TA2115H05	15.0	–
		TA2115H05	15.0	–
	4-5	TA2115H05	15.0	–
		TA2115H05	15.0	–
		TA2115H05	15.0	–
	6	TA2115H05	15.0	–
		TA2115H05	15.0	–
		TA2115H05	15.0	–
	7-9	TA2115H05	15.0	–
		TA2115H05	15.0	–
		TA2115H05	15.0	–
	10-12	TA2115H05	15.0	–
		TA2115H05	15.0	–
		TA2115H05	15.0	–

~ See Page G2-130 for lubrication for 15 RPM and slower
† See page G3-60 and G3-61 for information on TDT1425 and TDT1530 reducers

Class III

Class III - 2.0 service factor

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

Class III

Class III - 2.0 service factor

Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
40 (cont)	90-112	TA6307H15	6.6	–
		TA6307H09	10.6	–
		TA7315H05	14.8	–
		TA6307H15	6.7	–
	113-120	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	–
	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	–
50	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	–
	121-157	TA7315H05	13.2	–
		TA6307H09	10.9	–
60	158-200	TA6307H09	10.9	–
		TA6307H05	14.2	–
	201-400	TA6307H05	13.8	–
	7-14	TDT1530 †	15.0	–
	15-20	TDT1425 †	15.0	–
		TA12608H40	17.1	–
		TDT1425 †	15.0	–
	21	TA12608H40	17.1	–
		TA12608H25	9.5	–
	22-27	TA12608H15	14.8	–
		TA10507H40	8.5	–
	28	TA12608H25	9.5	–
		TA12608H15	14.9	–
		TA10507H40	8.5	–
	29-38	TA10507H25	8.5	–
		TA10507H15	10.7	–

Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
60 (cont)	39-45	TA9415H40	8.0	Fan
		TA9415H25	8.0	–
		TA9415H15	10.8	–
		TA9415H40	8.0	Fan
	46-50	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	–
		TA7315H15	6.2	–
	84-85	TA7315H15	6.2	–
		TA7315H09	8.5	–
	86-120	TA7315H09	8.6	–
		TA7315H05	11.7	–
	121-141	TA6307H09	10.9	–
		TA6307H09	10.9	–
75	142-150	TA6307H09	10.9	–
		TA7315H05	12.1	–
	151-195	TA6307H09	10.1	Fan
		TA7315H05	11.7	–
	196-200	TA7315H05	11.7	–
		TA7315H05	11.7	–
	201-208	TA6307H05	13.5	–
	209-400	TA6307H05	13.5	–
	9-17	TDT1530 †	15.0	–
	18-26	TDT1425 †	15.0	–
		TA12608H40	17.1	–
	27-34	TA12608H25	9.5	–
		TA12608H15	15.1	–
	35-36	TA10507H40	8.5	–
		TA12608H25	9.5	–
	37-49	TA12608H15	15.2	–
		TA10507H40	8.5	–
	37-49	TA10507H25	8.5	–
		TA10507H15	11.3	–
100	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	–
		TA7315H15	6.2	–
	113	TA7315H15	6.2	–
		TA7315H15	6.2	–
	114-120	TA7315H09	8.5	–
		TA7315H09	8.6	–
	121-156	TA7315H09	8.5	Fan
		TA7315H05	11.5	–
	213-306	TA6307H05	11.7	–
		TA6307H05	11.7	–
	12-23	TDT1530 †	15.0	–
		TDT1425 †	15.0	–
	24-35	TA12608H40	17.1	–
		TA12608H25	9.5	–
350	36-47	TA12608H15	15.6	–
		TA10507H40	8.5	Fan
		TA12608H25	9.5	–
	48-50	TA12608H25	9.5	–
		TA12608H15	15.7	–

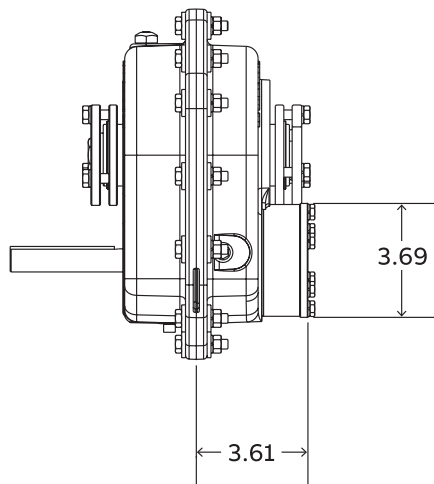
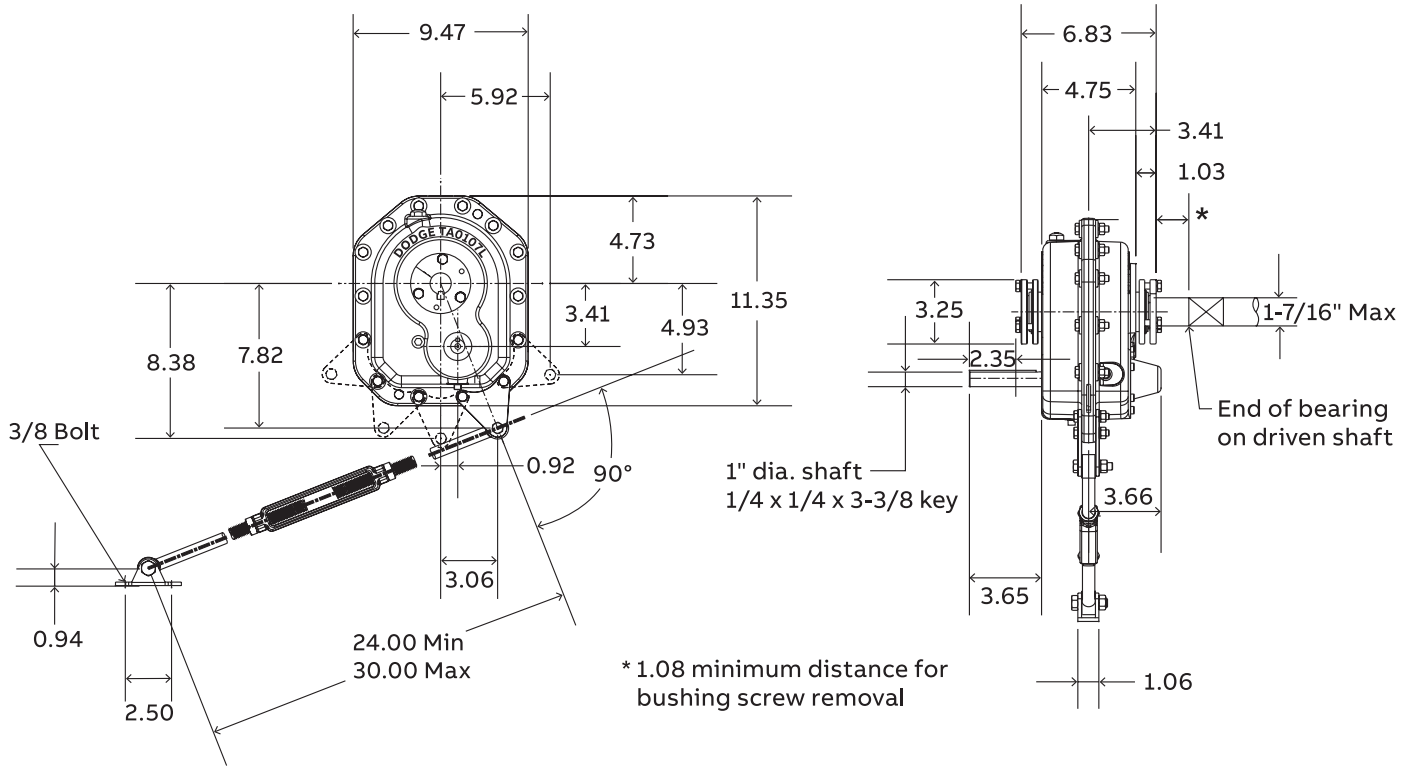
Motor Hp	Output RPM	Reducer selection	Min. sheave dia. P.D.	Cooling method
100 (cont)	51	TA12608H25	9.6	–
		TA12608H15	15.7	–
	52-56	TA10507H25	8.5	–
		TA10507H15	11.8	–
	57-67	TA10507H25	8.8	Fan
		TA10507H15	12.4	–
	68	TA9415H25	8.0	Fan
		TA10507H15	12.5	–
	69-80	TA9415H25	8.0	Fan
		TA9415H15	10.7	Fan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

~ See Page G2-130 for lubrication for 15 RPM and slower
† See page G3-60 and G3-61 for information on TDT1425 and TDT1530 reducers

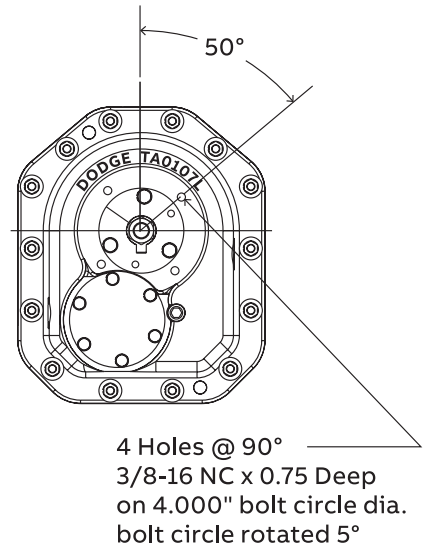
Selection and Dimensions

TA0107L

Taper bushed reducers – single and double reductions



Reducer with backstop



Flange mounting dimensions

TA0107L

Taper bushed reducers – single and double reductions

TA0107L taper bushed reducers (1) ●

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

TA0107L accessories

Description	Part Number	Weight lbs.
TA0107RA Rod assembly (1) +	900109	4.5
TA1107/0107L BS backstop assembly (2)	901102	3.9
TA0107MM Motor mount assembly (56-215T) (3)	900090	35.4
TA0107BG Belt guard - Pos. B (56-215T)	900096	40.6
TA0107, 1107, 2115 Belt guard assembly Pos. B M2	900101	37.0
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 dessicant breather Kit HLO	964372	2.0
XT Enclosed breather system, TA0-9	240050	2.0
TA0-TA3 Vertical breather kit	900112	2.0
TA0107L V-Ring kit	900249	0.1
TA0107L Lube kit	LUBEKITTA0107	4.6
Dodge OPTIFY sensor	750000	0.5

TA0107L tapered bushing kits (5) (6)

Bushing size standard shaft (7) bushing kit	Part number (7)	Weight lbs.	Shaft keyseat required (9) (10)
TA0107TB x 1-7/16 ▲	900020	1.5	3/8 x 3/16 x 6.83
TA0107TB x 1-3/8	900021	1.6	5/16 x 5/32 x 6.83
TA0107TB x 1-5/16	900022	1.8	5/16 x 5/32 x 6.83
TA0107TB x 1-1/4	900023	1.9	1/4 x 1/8 x 6.83
TA0107TB x 1-3/16	900024	2.0	1/4 x 1/8 x 6.83
TA0107TB x 1-1/8	900025	2.1	1/4 x 1/8 x 6.83

TA0107L short shaft tapered bushing kits

Bushing Size short shaft bushing kit	Part number (8)	Weight lbs.	Shaft keyseat required (9)(10)
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	–
TA0107TBS x 1-3/16	900027	2.1	1/4 x 1/8 x 4.35
TA0107TBS x 1-1/8	900028	2.3	1/4 x 1/8 x 4.35

Bushing and safety end covers

Reducer size	Description	Part number	Weight
TA0107L	ABS Polymer closed ⁽¹²⁾	900142	0.3
TA0107L	ABS Polymer split ⁽¹²⁾	900143	0.3

▲ AGMA maximum bore size

■ See page G2-117 for maximum bore straight bore TA II reducers

● See page G2-114 for cooling fan dimensions

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

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

(2) See page G2-123 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 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 drive shaft in a screw conveyor application

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

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

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

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

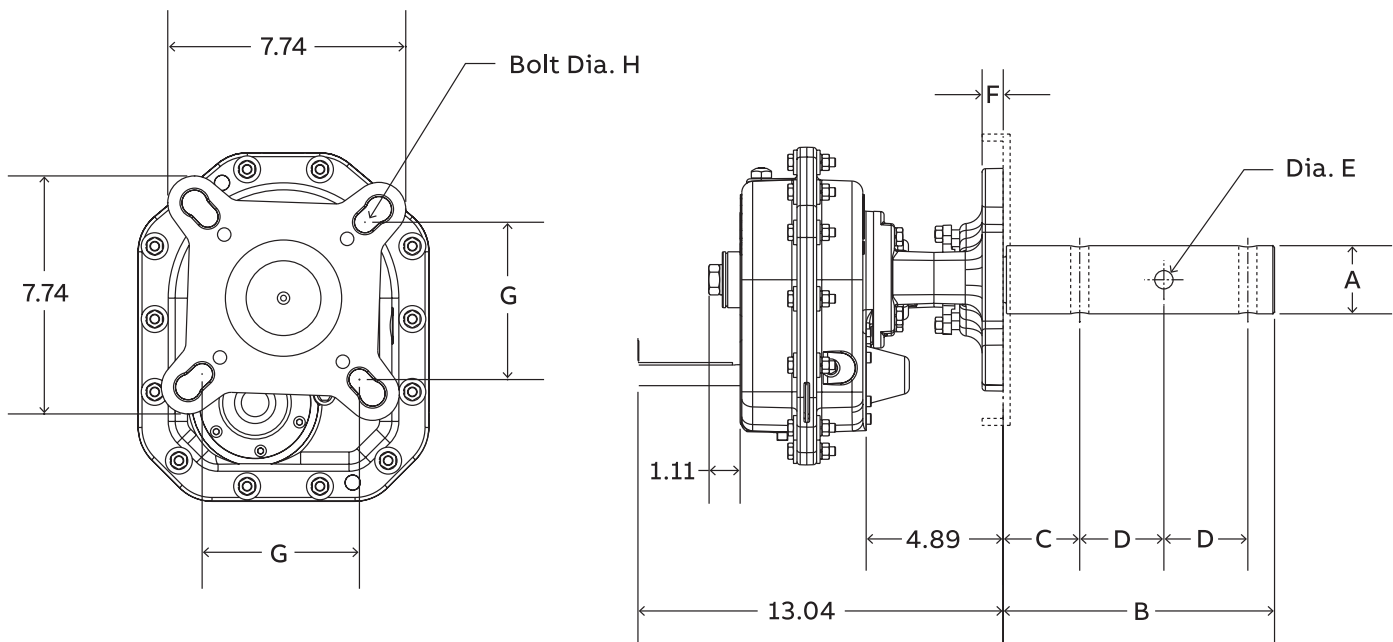
(12) ABS Polymer covers are designed with bolts for tapped reducers, non tapped reducers will require self tapping screws and customer modification of reducer

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 reductions



All dimensions are in inches.

TA0107L

Screw conveyor drive – single and double reductions

TA0107L screw conveyor drive dimensions

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

TA0107L accessories for screw conveyor drives (1) (4) (5)

Description	Part number	Weight lbs
TA0107SCA Adapter & hardware kit ⁽²⁾	900070	14.7
TA0107SCP Adjustable packing kit ⁽³⁾	900071	0.9
TA0107SCS x 1-1/2 Drive shaft	900072	8.8
TA0107SCS x 2 Drive shaft	900073	12.0
TA0107SCS x 2-7/16 Drive shaft	900074	16.5
TA0107SCS x 3 Drive shaft	900075	22.8
TA0107SCS x 1-1/2 Stainless steel drive shaft	900080	8.8
TA0107SCS x 2 Stainless steel drive shaft	900081	12.0
TA0107SCS x 2-7/16 Stainless steel drive shaft	900082	16.5
TA0107SCS x 3 Stainless steel drive shaft	900083	22.8
TA0107MM Motor mount assembly (56-215T)	900090	35.4
TA0107BG Belt guard - Pos. C (56-215T) ⁽⁴⁾	900097	42.2
TA0-TA3 Hydra-Lock dessicant breather Kit HLO	964372	2.0
XT Enclosed breather system, TA0-9	240050	2.0
Dodge OPTIFY sensor	750000	0.5

- (1) Pos "C" belt guard most popular for screw conveyor drive applications
- (2) SCA Adapter & hardware kit includes adapter, mounting wedge, keeper plate, key, seals and hardware
- (3) SCP Adjustable packing kit consists of flange, mounting hardware and braided packing seals
- (4) SCS Drive shaft is a shaft only. Hardware is stocked with the adapter & hardware kit.
- (5) A complete TA II Screw conveyor drive, order a TA II reducer, SCA adapter & hardware kit, and SCS drive shaft. The SCP Adjustable packing kit is an optional accessory.

TA0107L

Motor mount dimensions – position B & D

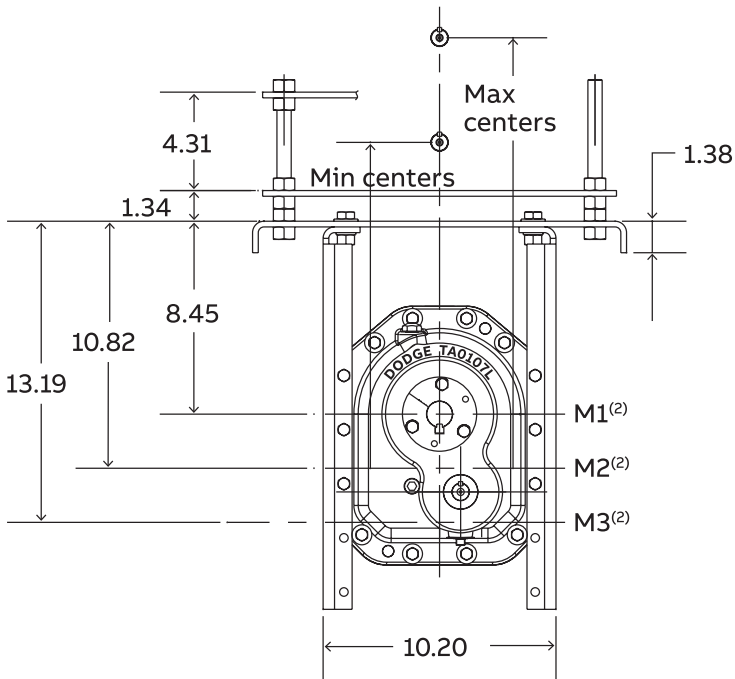
Reference Guide

Motorized Torque-Arm II

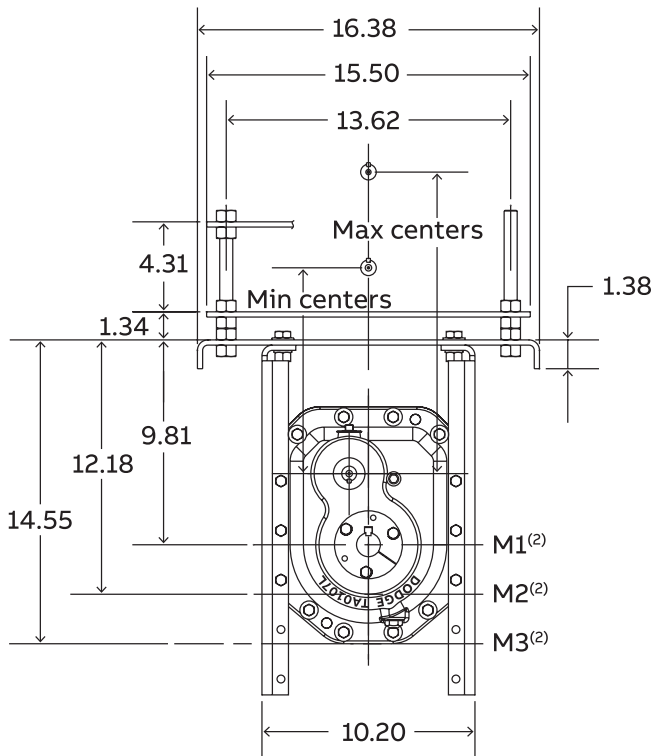
Torque-Arm II

Torque-Arm

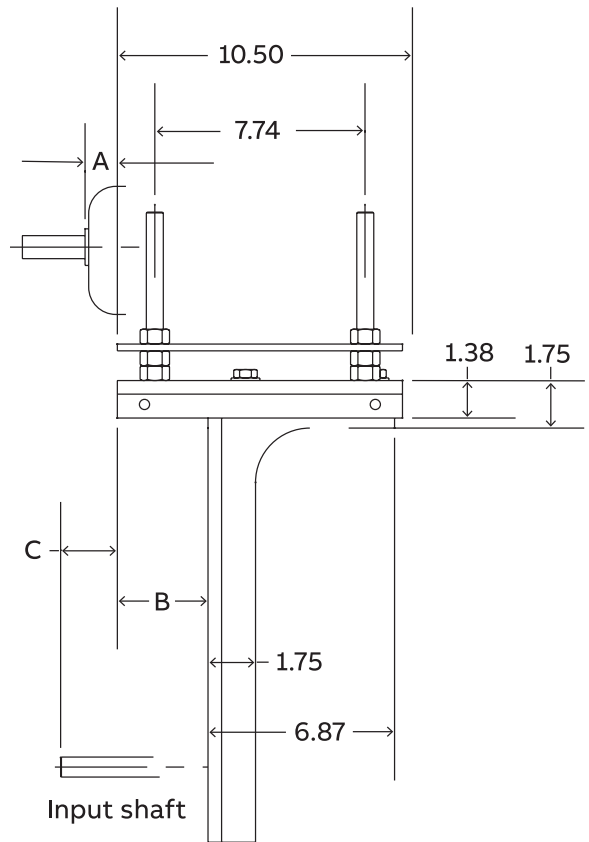
Bulk Material Handling



Position B



Position D



TA0107L

Motor mount dimensions – position B & D

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

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame					
						182T & 184T			213T & 215T		
						A	Centers		A	Centers	
							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

- (1) Motor Mount will fit NEMA and IEC frame motors; however motor mount hardware are inch dimensions.
- (2) M1, M2, M3 go through output shaft centerline

Notes: Minimum centers contains 0.5" to allow for belt assembly

TA0107L

Motor mount dimensions – position A & C

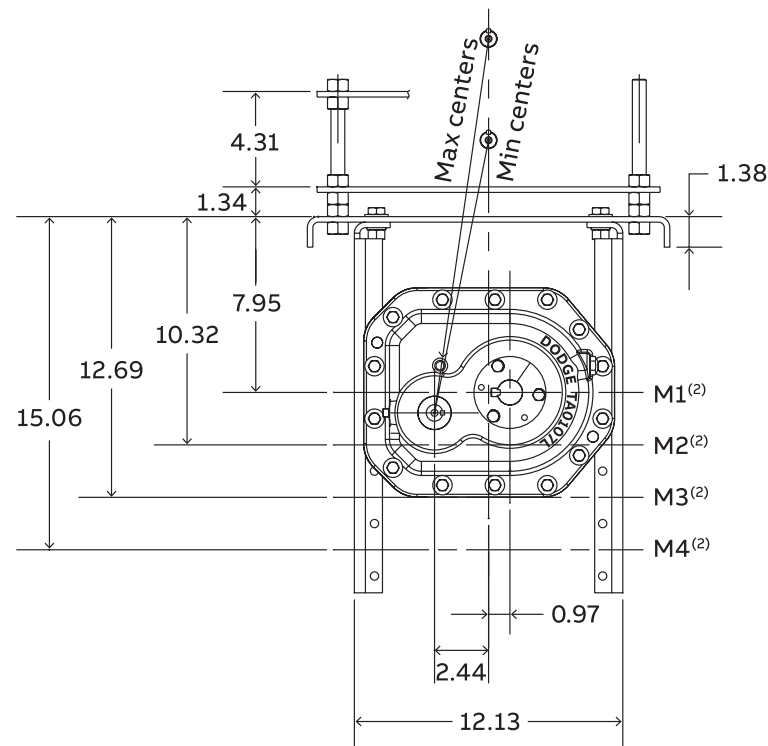
Reference Guide

Motorized Torque-Arm II

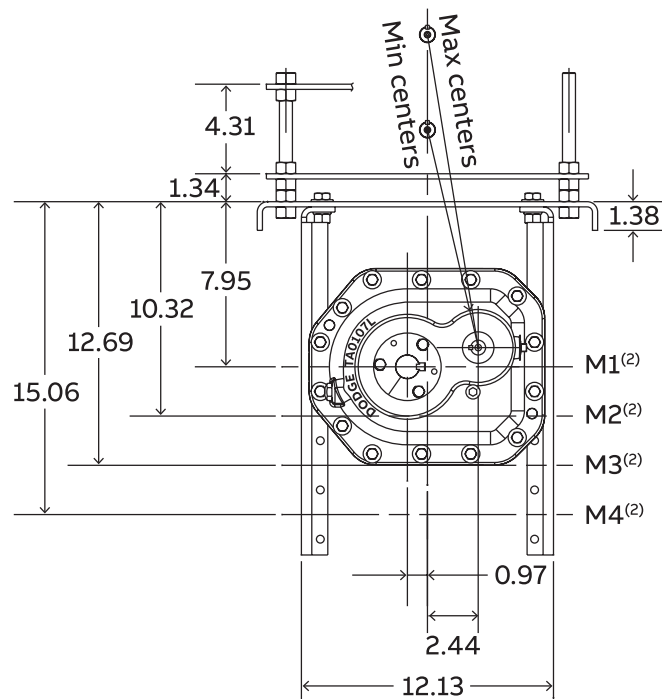
Torque-Arm II

Torque-Arm

Bulk Material Handling

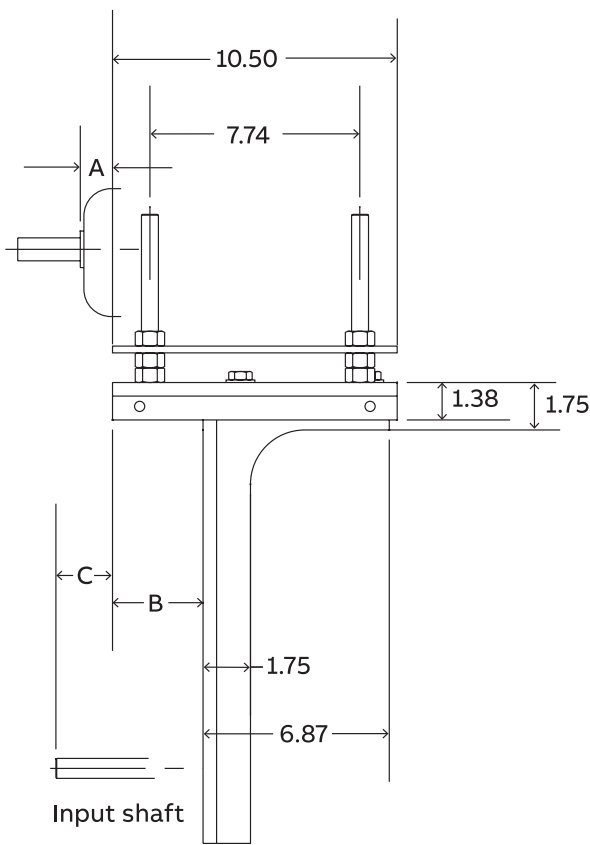


Position A



Position C

Most Common



TA0107L

Motor mount dimensions – position A & C

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

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

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: Minimum centers contains 0.5" to allow for belt assembly

- (1) Motor Mount will fit NEMA and IEC frame motors; however motor mount hardware are inch dimensions.
- (2) M1, M2, M3, M4 go through output shaft centerline
- (3) See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size

TA1107H

Taper bushed reducers – single and double reductions

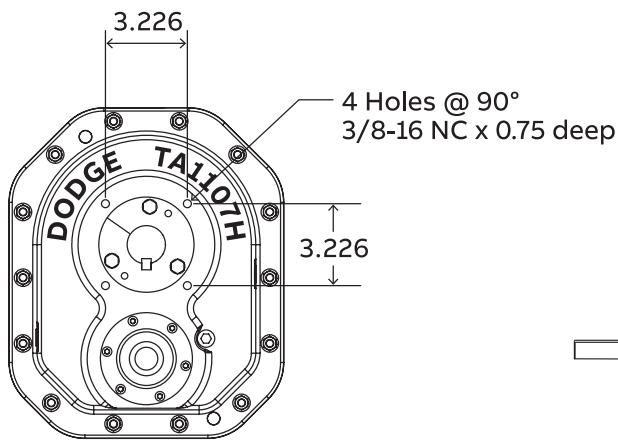
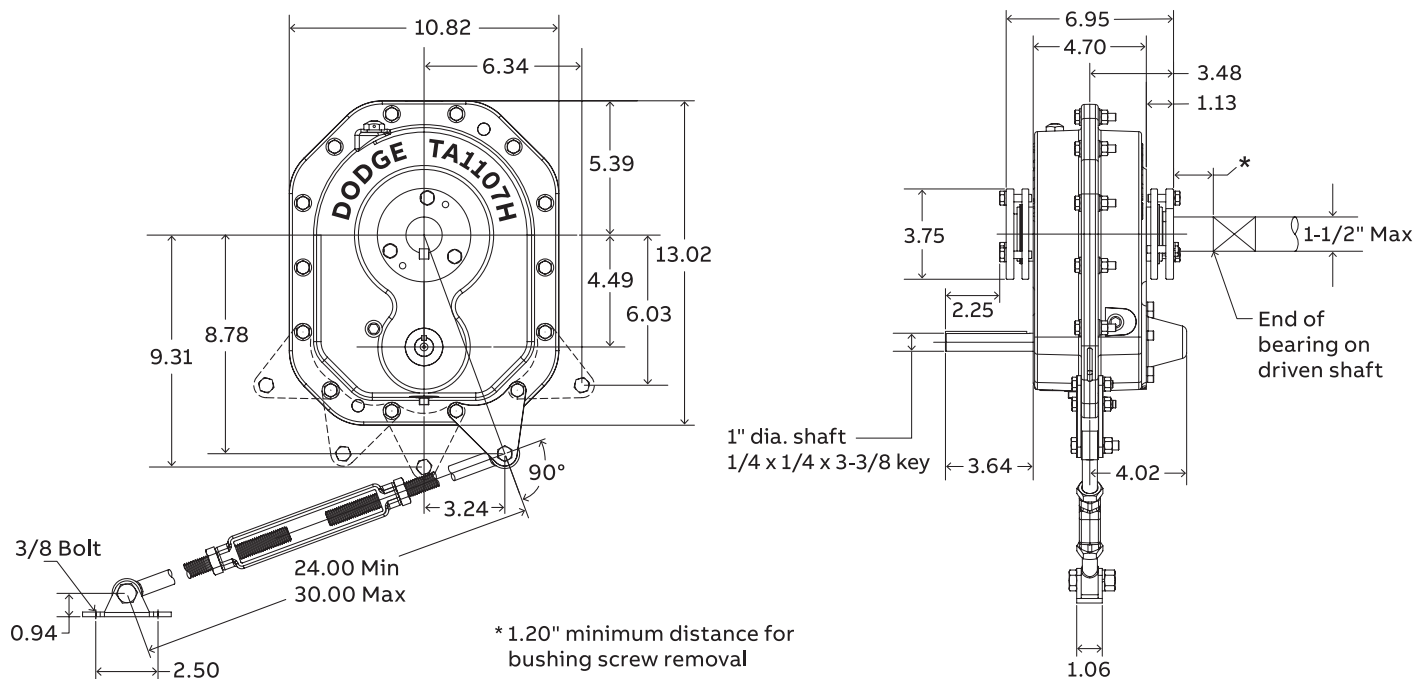
Reference Guide

Motorized Torque-Arm II

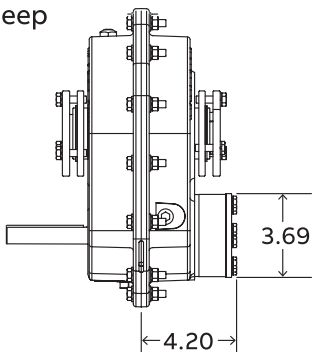
Torque-Arm II

Torque-Arm

Bulk Material Handling



Flange mounting dimensions



Reducer with backstop

TA1107H

Taper bushed reducers – single and double reductions

TA1107H taper bushed reducers ⁽¹⁾ ● ■

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

TA1107H accessories

Description	Part number	Weight lbs.
TA1107RA Rod assembly ⁽¹⁾ +	901109	4.5
TA1107H/0107L BS Backstop assembly ⁽²⁾	901102	3.9
TA1107MM Motor mount assembly (56-254T) ⁽³⁾	901090	39.5
TA1107BG Belt guard - Pos. B (56-254T)	901096	40.6
TA0107, 1107, 2115 Belt guard assembly – Pos. B, M2	900101	37.0
TA1107BG Belt guard - Pos D (56-254T)	901099	43.0
TA0-TA3 Hydra-Lock dessicant breather kit HL0	964372	2.0
XT Enclosed breather system, TA0-9	240050	2.0
TA0-TA3 - Vertical breather kit	900112	2.0
TA1107H - V-Ring kit	901249	0.1
TA1107H Lube kit	LUBEKITTA1107	4.6
Dodge OPTIFY sensor	750000	0.5

TA1107H tapered bushing kits ⁽⁵⁾ (6)

Bushing size	Part number	Weight lbs.	Shaft keyseat required	Bushing size	Part number	Weight lbs.	Shaft keyseat required
Standard shaft bushing kit	(7)		(9) (10)	Short shaft bushing kit	(8)		(9) (10)
TA1107TB x 1-1/2	901020	3.3	3/8 x 3/16 x 6.95	–	–	–	–
TA1107TB x 1-7/16 ▲	901021	3.6	3/8 x 3/16 x 6.95	TA1107TBS x 1-7/16	901030	3.7	3/8 x 3/16 x 4.43
TA1107TB x 1-3/8	901022	3.5	5/16 x 5/32 x 6.95	TA1107TBS x 1-3/8	901031	3.8	5/16 x 5/32 x 4.43
TA1107TB x 1-5/16	901023	3.8	5/16 x 5/32 x 6.95	TA1107TBS x 1-5/16	901032	4	5/16 x 5/32 x 4.43
TA1107TB x 1-1/4	901024	3.7	1/4 x 1/8 x 6.95	TA1107TBS x 1-1/4	901033	4.1	1/4 x 1/8 x 4.43
TA1107TB x 1-3/16	901025	3.8	1/4 x 1/8 x 6.95	TA1107TBS x 1-3/16	901034	4.2	1/4 x 1/8 x 4.43
TA1107TB x 1-1/8	901026	4.0	1/4 x 1/8 x 6.95	TA1107TBS x 1-1/8	901035	4.4	1/4 x 1/8 x 4.43
TA1107TB x 1-1/16	901027	4.0	1/4 x 1/8 x 6.95	TA1107TBS x 1-1/16	901036	4.5	1/4 x 1/8 x 4.43
TA1107TB x 1	901028	4.2	1/4 x 1/8 x 6.95	TA1107TBS x 1	901037	4.7	1/4 x 1/8 x 4.43

Bushing covers

Reducer size	Description	Part number	Weight
TA1107H	ABS Polymer closed ⁽¹²⁾	901142	0.5
TA1107H	ABS Polymer split ⁽¹²⁾	901143	0.4

▲ AGMA maximum bore size

■ See page G2-117 for maximum bore straight bore TA II reducers

● See page G2-114 for cooling fan dimensions

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

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

(2) See page G2-123 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 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 drive shaft in a screw conveyor application

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

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

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

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

(12) ABS Polymer covers are designed with bolts for tapped reducers, non tapped reducers will require self tapping screws and customer modification of reducer

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

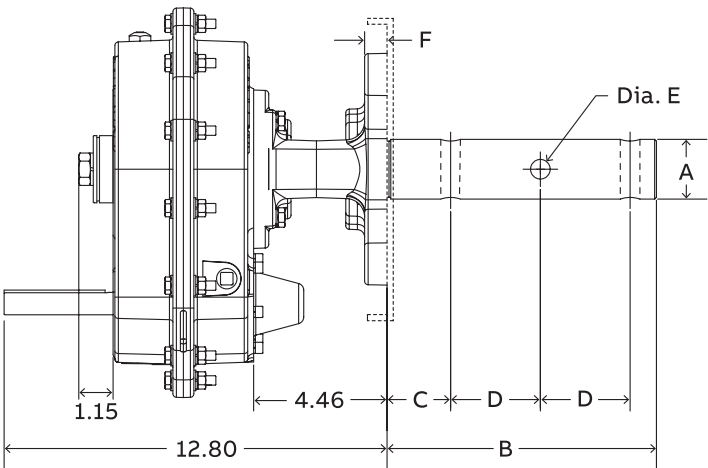
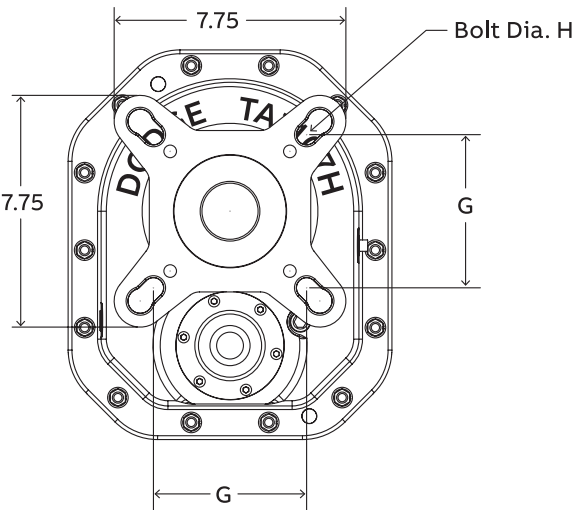
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



All dimensions are in inches.

TA1107H

Screw conveyor drive – single and double reductions

TA1107H screw conveyor drive dimensions

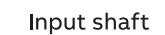
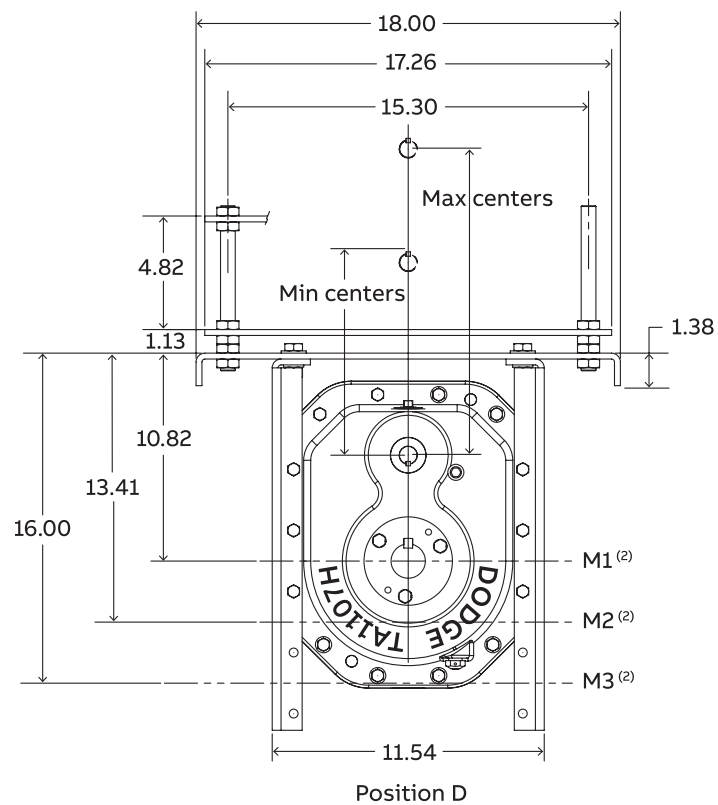
Screw diameter	Drive shaft Dia A	Dimensions						
		B	C	D	Hole Dia E	F	G	Bolt Dia H
6, 9	1-1/2	9.00	2.13	3.00	17/32	0.75	4.00	1/2
9, 12	2	9.00	2.13	3.00	21/32	0.75	5.13	5/8
12, 14	2-7/16	9.69	2.75	3.00	21/32	0.75	5.63	5/8
12, 14, 16, 18, 20	3	9.88	2.88	3.00	25/32	0.75	6.00	3/4

TA1107H accessories for screw conveyor drives ⁽¹⁾ ⁽⁴⁾ ⁽⁵⁾

Description	Part number	Weight lbs.
TA1107SCA Adapter & hardware kit ⁽²⁾	901070	15.2
TA1107SCP Adjustable packing kit ⁽³⁾	901071	0.8
TA1107SCS x 1-1/2 Drive shaft	901072	10.3
TA1107SCS x 2 Drive shaft	901073	13.5
TA1107SCS x 2-7/16 Drive shaft	901074	18.1
TA1107SCS x 3 Drive shaft	901075	24.4
TA1107SCS x 1-1/2 Stainless steel drive shaft	901080	10.3
TA1107SCS x 2 Stainless steel drive shaft	901081	13.5
TA1107SCS x 2-7/16 Stainless steel drive shaft	901082	18.1
TA1107SCS x 3 Stainless steel drive shaft	901083	24.4
TA1107MM Motor mount assembly (56-254T)	901090	39.5
TA1107BG Belt guard - Pos. C (56-254T) ⁽¹⁾	901097	47.2
TA0-TA3 Hydra-Lock dessicant breather Kit HLO	964372	2.0
XT Enclosed breather system, TA0-9	240050	2.0
Dodge OPTIFY sensor	750000	0.5

- (1) Pos "C" Belt guard most popular for screw conveyor drive applications
- (2) SCA Adapter & hardware kit includes adapter, mounting wedge, keeper plate, key, seals and hardware
- (3) SCP Adjustable packing kit consists of flange, mounting hardware and braided packing seals
- (4) SCS Drive shaft is a shaft only. Hardware is stocked with the adapter & hardware kit.
- (5) A complete TA II screw conveyor drive, order a TA II reducer, SCA adapter & hardware kit, and SCS drive shaft. The SCP adjustable packing kit is an optional accessory.

Motor mount dimensions – position B & D



DODGE | TORQUE-ARM

TA1107H

Motor mount dimensions – position B & D

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame					
						56			143T & 145T		
	B Min	B Max	C Min	C Max		A	Centers		A	Centers	
							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 & 184T			213T & 215T			254T		
		A	Centers		A	Centers		A	Centers	
			Min	Max		Min	Max		Min	Max
Position B	M1	1.37	18.7	23.0	1.55	19.5	23.8	1.56	20.5	24.8
	M2		21.3	25.6		22.1	26.4		23.1	27.4
	M3		23.9	28.2		24.6	29.0		25.6	30.0
Position D	M1	1.37	12.3	16.7	1.55	13.1	17.4	1.56	14.1	18.4
	M2		14.9	19.2		15.7	20.0		16.7	21.0
	M3		17.5	21.8		18.3	22.6		19.3	23.6

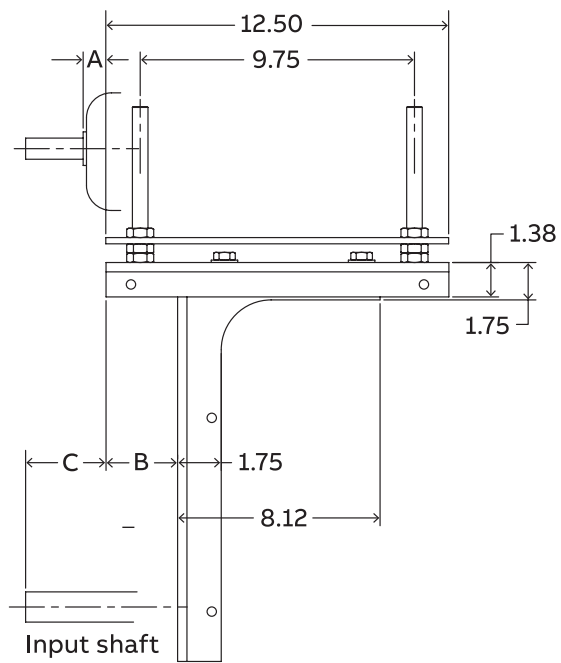
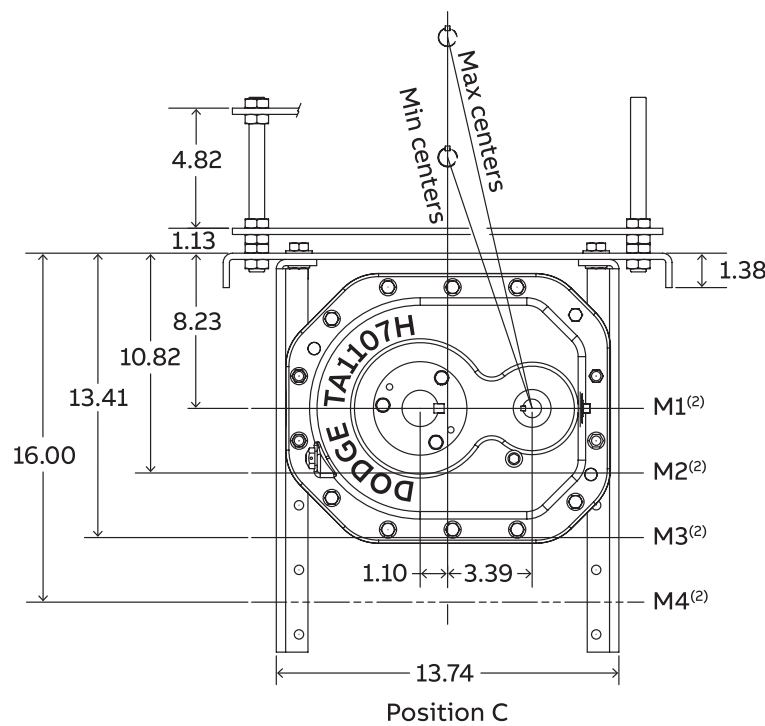
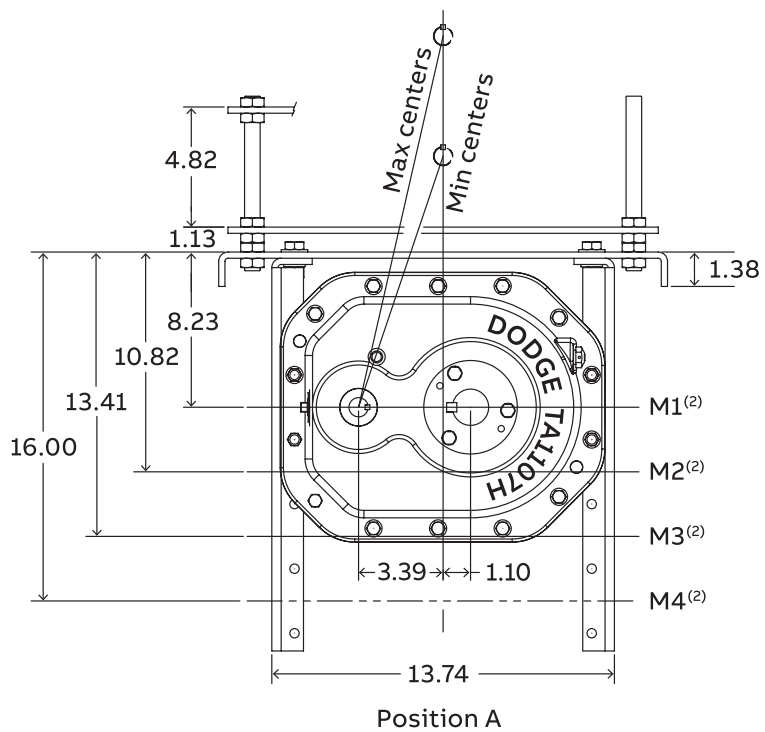
(1) Reducers are supplied from stock ready for vertical mounting and for flange mounting. Rod assembly is not included with reducer, must order as a separate part number.

(2) See page G2-127 for input shaft speed necessary for backstop sprag lift-off

Notes: Minimum centers contains 0.5" to allow for belt assembly

TA1107H

Motor mount dimensions – position A & C



All dimensions are in inches.

TA1107H

Motor mount dimensions – position A & C

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

Mounting	Motor mount height (2)	Motor frame							
		182T & 184T		213T & 215T			254T		
		A	Centers	A	Centers	A	Centers	A	Centers
			Min Max		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	1.56	16.4 20.6
	M2		17.2 21.4		17.9 22.2		18.9 23.2		18.9 23.2
	M3		19.7 24.0		20.5 24.7		21.5 25.7		21.5 25.7
	M4		22.3 26.6		23.0 27.3		24.0 28.3		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	1.56	16.4 20.6
	M2		17.2 21.4		17.9 22.2		18.9 23.2		18.9 23.2
	M3		19.7 24.0		20.5 24.7		21.5 25.7		21.5 25.7
	M4		22.3 26.6		23.0 27.3		24.0 28.3		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

- (1) Motor Mount will fit NEMA and IEC frame motors; however, motor mount hardware are inch dimensions.
- (2) M1, M2, M3, M4 go through output shaft centerline
- (3) See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size
- (4) For U or flared trough ends per CEMA 300-014

Notes: Minimum centers contains 0.5” to allow for belt assembly

TA2115H

Taper bushed reducers – single and double reductions

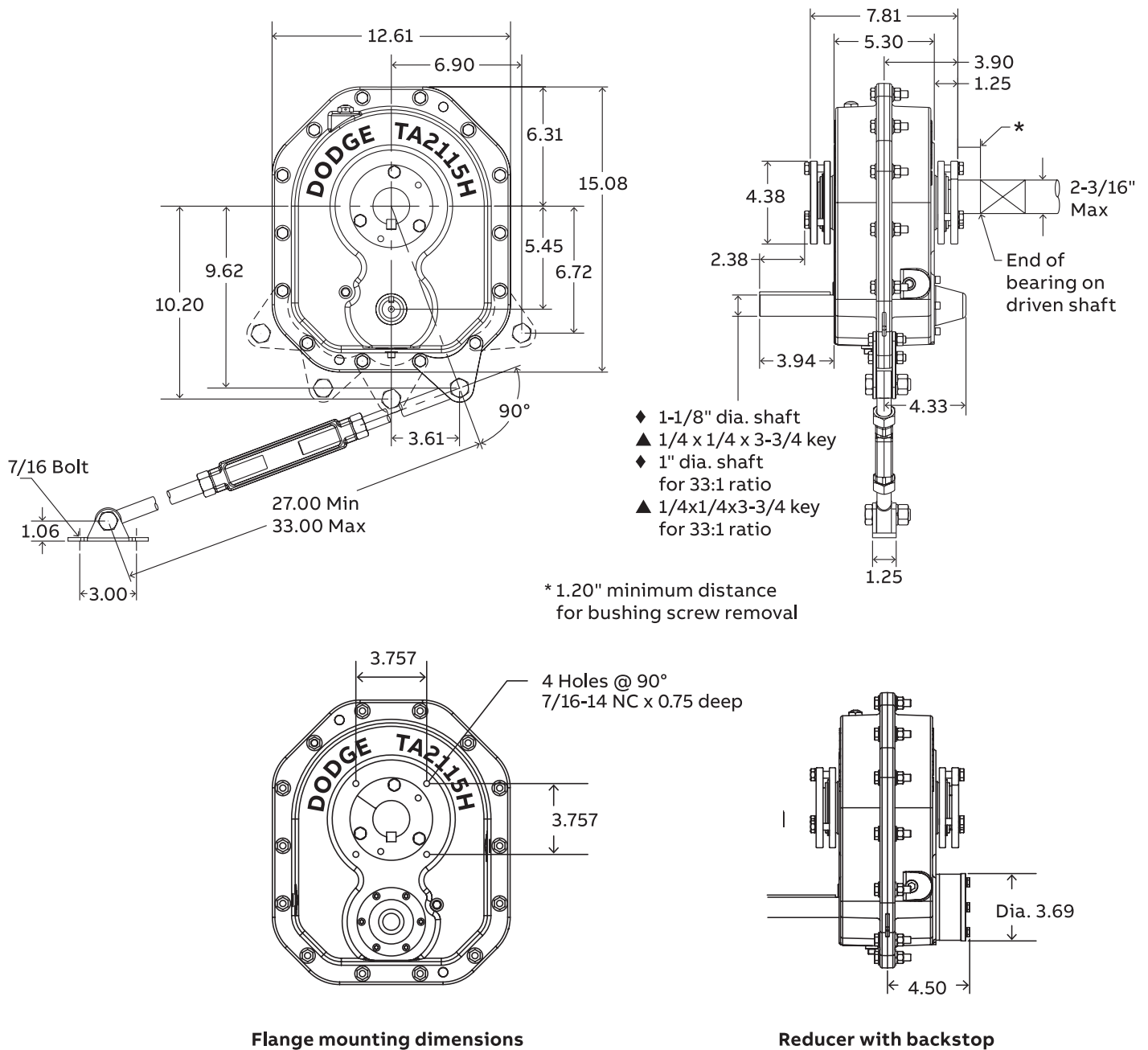
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



Flange mounting dimensions

Reducer with backstop

TA2115H

Taper bushed reducers – single and double reductions

TA2115H taper bushed reducers ⁽¹⁾

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

TA2115H accessories

Description	Part number	Weight lbs.
TA2115RA Rod assembly ⁽¹⁾ +	902109	6.9
TA2115BS Backstop assembly ⁽²⁾	902102	3.9
TA2115MM Motor mount assembly (56-256T) ⁽³⁾	902090	52.6
TA2115BG Belt guard - Pos. B (56-256T)	902096	47.7
TA0107, 1107, 2115 Belt guard assembly – Pos. B, M2	900101	37.0
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 dessicant breather kit HL0	964372	2.0
XT Enclosed breather system, TA0-9	240050	2.0
TA0-TA3 Vertical breather kit	900112	2.0
TA2115H V-Ring kit	902249	0.2
TA2115H Lube kit	LUBEKITA2115	8.1
Dodge OPTIFY sensor	750000	0.5

TA2115H tapered bushing kits ^{(5) (6)}

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Standard shaft bushing kit	(7)		(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 1-7/8	902024	5.6	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 1-5/8	902027	6.0	3/8 x 3/16 x 7.80
TA2115TB x 1-1/2	902028	6.4	3/8 x 3/16 x 7.80
TA2115TB x 1-7/16	902029	6.4	3/8 x 3/16 x 7.80
TA2115TB x 1-3/8	902060	6.5	5/16 x 5/32 x 7.80
TA2115TB x 1-5/16	902061	6.7	5/16 x 5/32 x 7.80

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Short shaft bushing kit			(9) (10)
–	–	–	–
–	–	–	–
TA2115TBS x 1-15/16	902030	5.6	1/2 x 1/4 x 4.80
TA2115TBS x 1-7/8	902031	5.9	1/2 x 1/4 x 4.80
TA2115TBS x 1-3/4	902032	6	3/8 x 3/16 x 4.80
TA2115TBS x 1-11/16	902033	6.6	3/8 x 3/16 x 4.80
TA2115TBS x 1-5/8	902034	6.8	3/8 x 3/16 x 4.80
TA2115TBS x 1-1/2	902035	7.3	3/8 x 3/16 x 4.80
TA2115TBS x 1-7/16	902036	7.4	3/8 x 3/16 x 4.80
TA2115TBS x 1-3/8	902037	7.6	5/16 x 5/32 x 4.80
TA2115TBS x 1-5/16	902038	7.8	5/16 x 5/32 x 4.80

Bushing covers

Reducer size	Description	Part number	Weight
TA2115H	ABS Polymer closed ⁽¹²⁾	902142	0.6
TA2115H	ABS Polymer split ⁽¹²⁾	902143	0.5

▲ AGMA maximum bore size

■ See page G2-117 for maximum bore straight bore TA II reducers

● See page G2-114 for cooling fan dimensions

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

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

(2) See page G2-123 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 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 drive shaft in a screw conveyor application

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

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

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

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

(12) ABS Polymer covers are designed with bolts for tapped reducers, non tapped reducers will require self tapping screws and customer modification of reducer

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

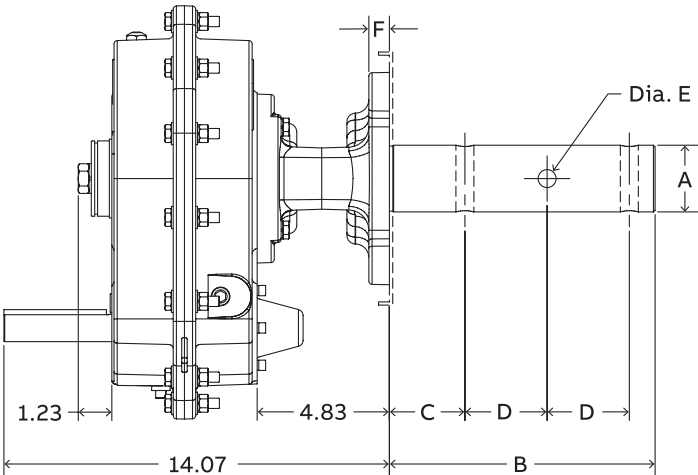
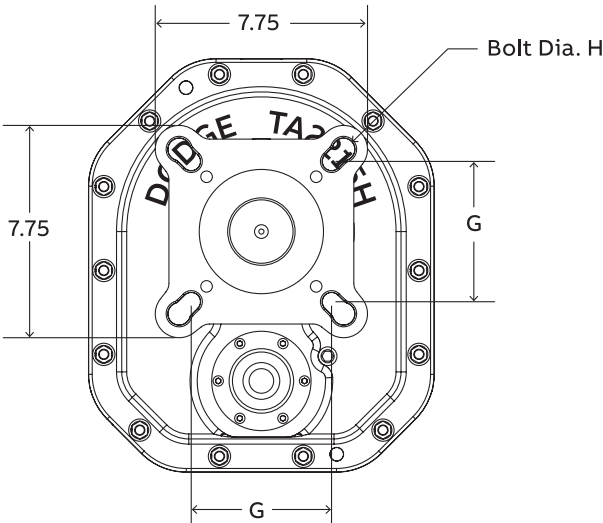
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



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

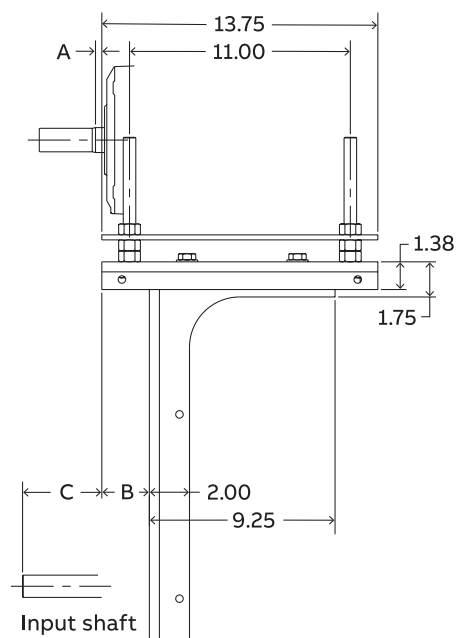
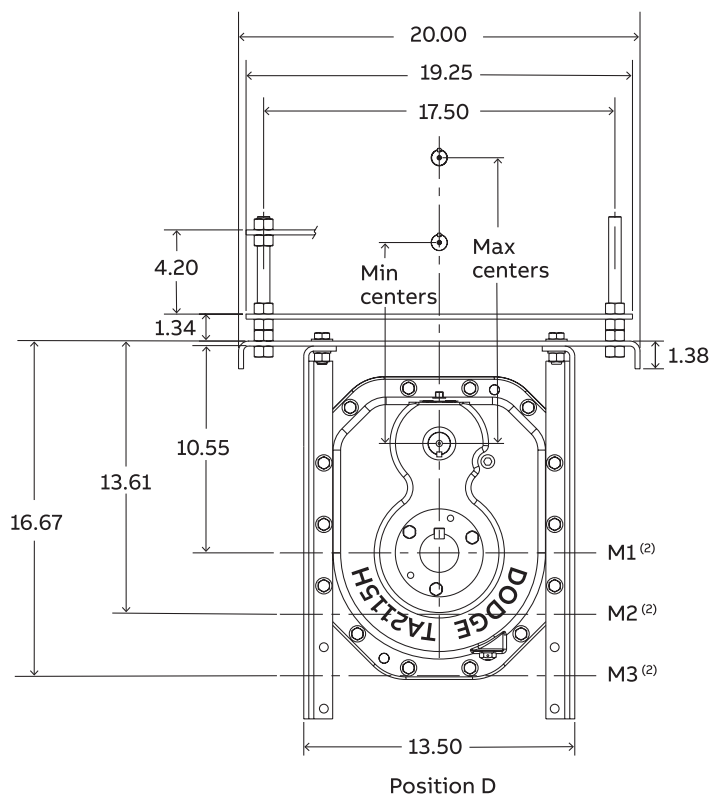
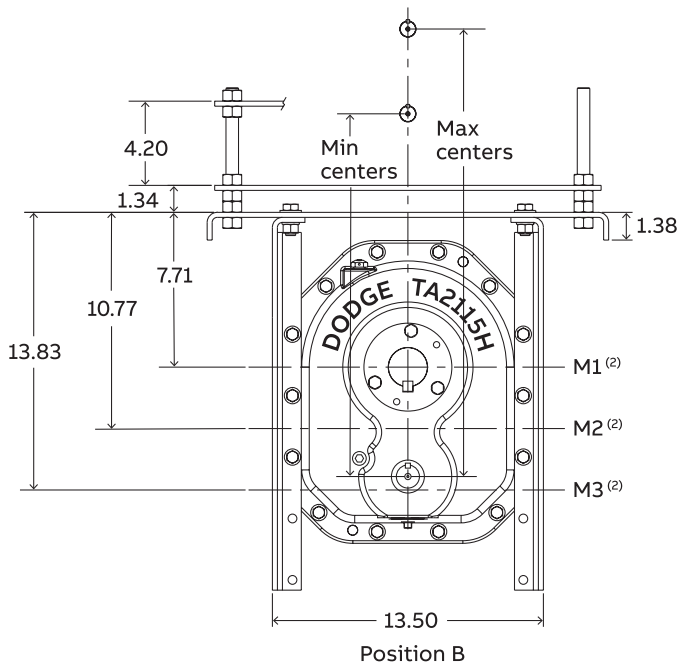
TA2115H accessories for screw conveyor drives ⁽¹⁾ ⁽⁴⁾ ⁽⁵⁾

Description	Part number	Weight lbs.
TA2115SCA Adapter & hardware kit ⁽²⁾	902070	19.2
TA2115SCP Adjustable packing kit ⁽³⁾	902071	1.2
TA2115SCS x 1-1/2 Drive shaft	902072	15.4
TA2115SCS x 2 Drive shaft	902073	18.6
TA2115SCS x 2-7/16 Drive shaft	902074	23.3
TA2115SCS x 3 Drive shaft	902075	29.5
TA2115SCS x 1-1/2 Stainless steel drive shaft	902080	15.4
TA2115SCS x 2 Stainless Steel drive shaft	902081	18.6
TA2115SCS x 2-7/16 Stainless steel drive shaft	902082	23.3
TA2115SCS x 3 Stainless steel drive shaft	902083	29.5
TA2115MM Motor mount assembly (56-256T)	902090	56.5
TA2115BG Belt guard - Pos. C (56-256T) ⁽¹⁾	902097	47.7
TA0-TA3 Hydra-Lock dessicant breather Kit HLO	964372	2.0
XT Enclosed breather system, TA0-9	240050	2.0
Dodge OPTIFY sensor	750000	0.5

- (1) Reducers are supplied from stock ready for vertical mounting and for flange mounting. Rod assembly is not included with reducer, must order as a separate part number.
- (2) Motor Mount will fit NEMA and IEC frame motors; however motor mount hardware are inch dimensions.
- (3) Use Position-C belt guard for TA II reducer 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 & D



All dimensions are in inches.

TA2115H

Motor mount dimensions – position B & D

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

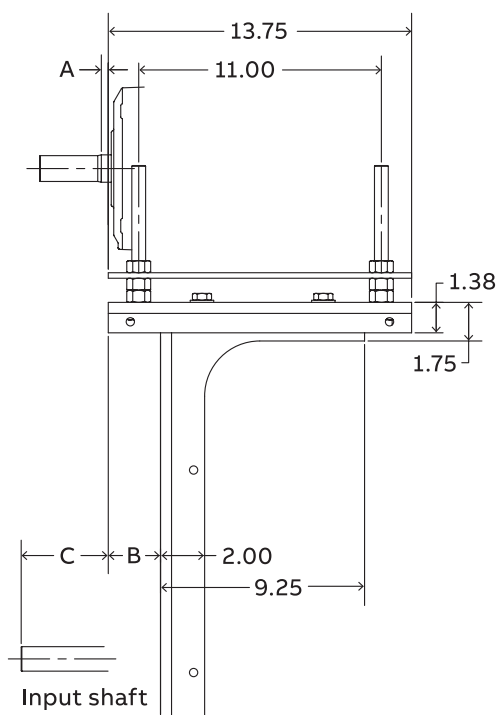
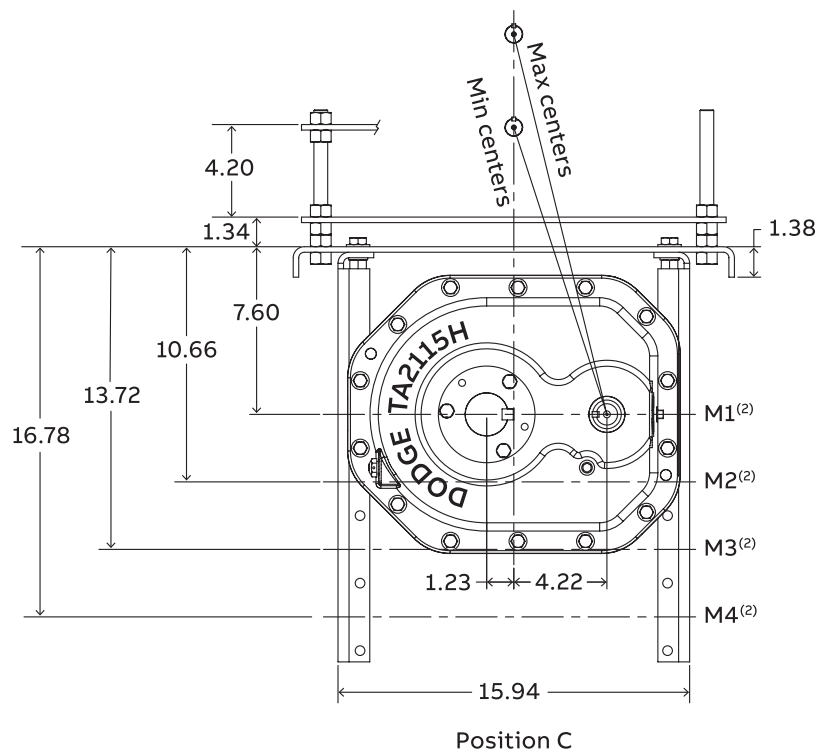
Mounting	Motor mount height (2)	Motor frame								
		182T & 184T			213T & 215T			254T & 256T		
		A	Centers		A	Centers		A	Centers	
			Min	Max		Min	Max		Min	Max
Position B	M1	1.37	19.5	23.2	1.55	20.3	24.0	1.56	21.3	25.0
	M2		22.6	26.3		23.3	27.0		24.3	28.0
	M3		25.6	29.3		26.4	30.1		27.4	31.1
Position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

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

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

Notes: Minimum centers contains 0.5" to allow for belt assembly

Motor mount dimensions – position A & C



G2-50

TA2115H

Motor mount dimensions – position A & C

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

Mounting	Motor mount height (2)	Motor frame							
		182T & 184T		213T & 215T			254T & 256T		
		A	Centers	A	Centers	A	Centers	A	Centers
			Min Max		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	1.56	16.3 19.8
	M2		17.5 21.1		18.3 21.9		19.2 22.8		19.2 22.8
	M3		20.5 24.1		21.2 24.9		22.2 25.9		22.2 25.9
	M4		23.5 27.1		24.2 27.9		25.2 28.9		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	1.56	16.3 19.8
	M2		17.5 21.1		18.3 21.9		19.2 22.8		19.2 22.8
	M3		20.5 24.1		21.2 24.9		22.2 25.9		22.2 25.9
	M4		23.5 27.1		24.2 27.9		25.2 28.9		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

- (1) Motor Mount will fit NEMA and IEC frame motors; however, motor mount hardware are inch dimensions
- (2) M1, M2, M3, M4 go through output shaft centerline
- (3) See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size
- (4) For U or flared trough ends per CEMA 300-014

Notes: Minimum centers contains 0.5” to allow for belt assembly

TA3203H

Taper bushed reducers – single and double reductions

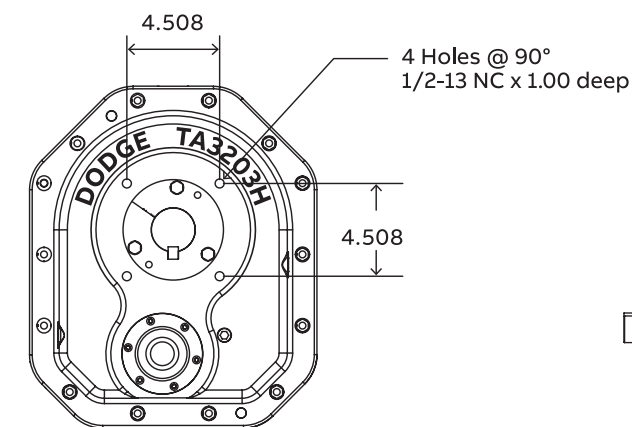
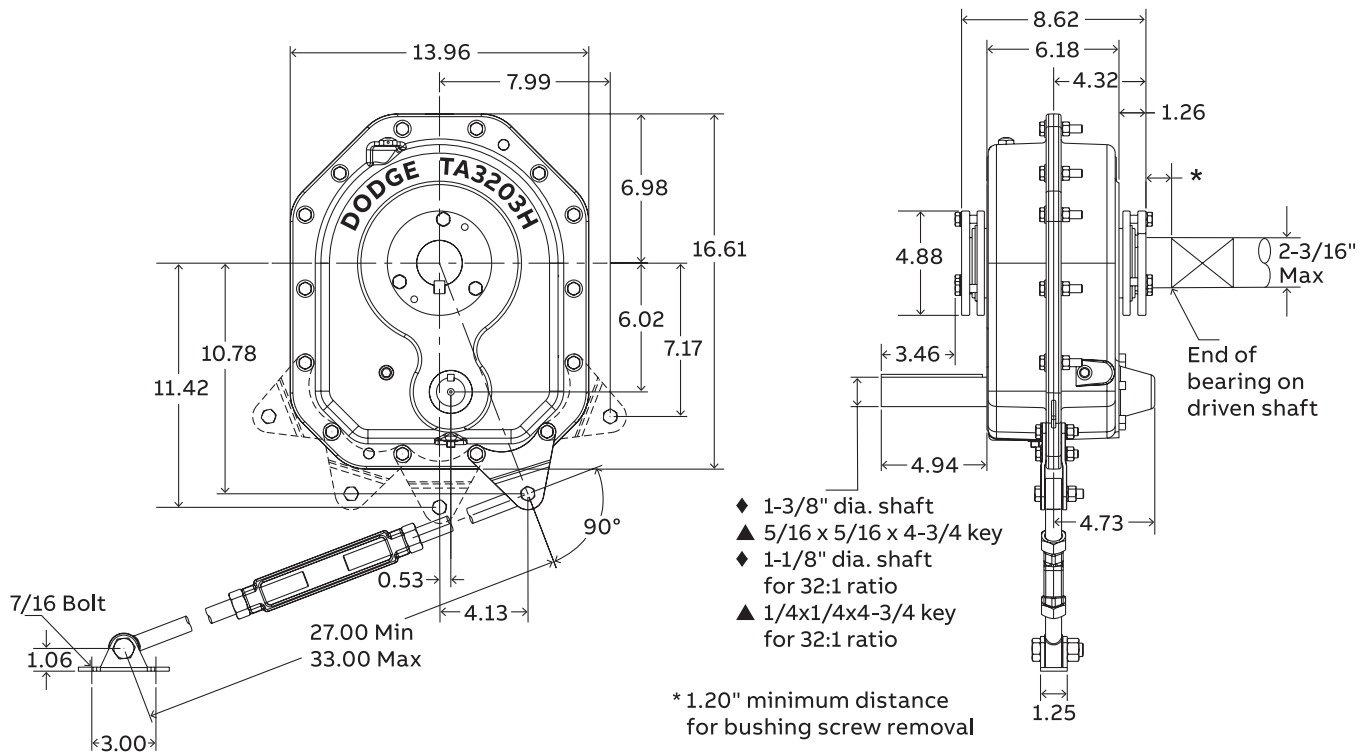
Reference Guide

Motorized Torque-Arm II

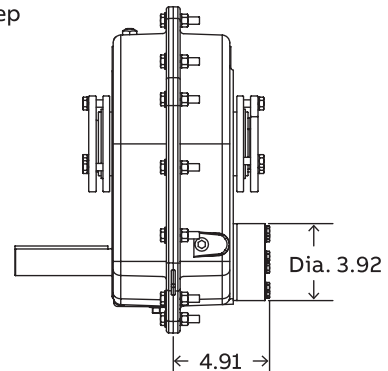
Torque-Arm II

Torque-Arm

Bulk Material Handling



Flange mounting dimensions



Reducer with backstop

TA3203H

Taper bushed reducers – single and double reductions

TA3203H taper bushed reducers (1) ■

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

TA3203H accessories

Description	Part number	Weight lbs.
TA3203RA Rod assembly (1) +	903109	6.9
TA3203BS Backstop assembly (2)	903102	4.7
TA3203MM Motor mount assembly (143-286T) (3)	903090	86.7
TA3203BG Belt guard - Pos. B (143-286T)	903096	65.5
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 dessicant breather kit HL0	964372	2.0
XT Enclosed breather system, TA0-9	240050	2.0
TA0-TA3 Vertical breather kit	900112	2.0
TA3203H V-Ring kit	903249	0.2
TA3203H Lube kit	LUBEKITA3203	10.4
Dodge OPTIFY sensor	750000	0.5

TA3203H tapered bushing kits ^{(5) (6)}

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Standard shaft bushing kit	(7)		(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
TA3203TB x 1-7/8	903026	8.0	1/2 x 1/4 x 8.55
TA3203TB x 1-3/4	903027	8.0	3/8 x 3/16 x 8.55
TA3203TB x 1-11/16	903028	8.2	3/8 x 3/16 x 8.55
TA3203TB x 1-5/8	903029	8.4	3/8 x 3/16 x 8.55
TA3203TB x 1-1/2	903060	8.8	3/8 x 3/16 x 8.55
TA3203TB x 1-7/16	903061	8.8	3/8 x 3/16 x 8.55

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Short shaft bushing kit			(9) (10)
(8)			
–	–	–	–
–	–	–	–
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
TA3203TBS x 1-7/8	903034	8.7	1/2 x 1/4 x 5.46
TA3203TBS x 1-3/4	903035	9.0	3/8 x 3/16 x 5.46
TA3203TBS x 1-11/16	903036	9.3	3/8 x 3/16 x 5.46
TA3203TBS x 1-5/8	903037	9.6	3/8 x 3/16 x 5.46
TA3203TBS x 1-1/2	903038	9.9	3/8 x 3/16 x 5.46
TA3203TBS x 1-7/16	903039	10.0	3/8 x 3/16 x 5.46

Bushing covers

Reducer size	Description	Part number	Weight
TA3203H	ABS Polymer closed ⁽¹²⁾	903142	0.6
TA3203H	ABS Polymer split ⁽¹²⁾	903143	0.5

▲ AGMA maximum bore size

■ See page G2-117 for maximum bore straight bore TA II reducers

● See page G2-114 for cooling fan dimensions

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

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

(2) See page G2-123 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 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 drive shaft in a screw conveyor application

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

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

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

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

(12) ABS Polymer covers are designed with bolts for tapped reducers, non tapped reducers will require self tapping screws and customer modification of reducer

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

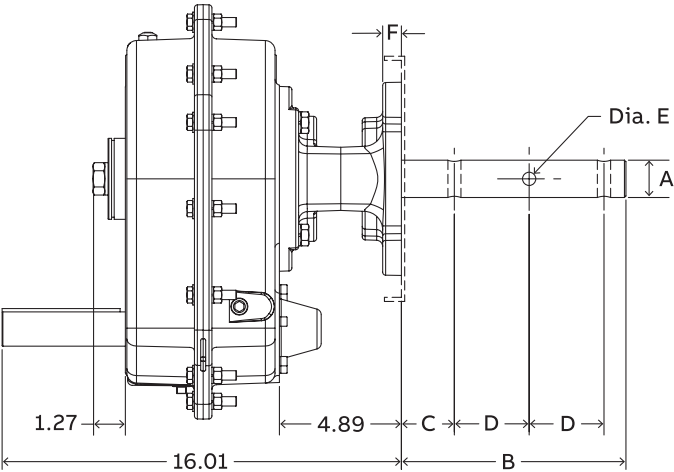
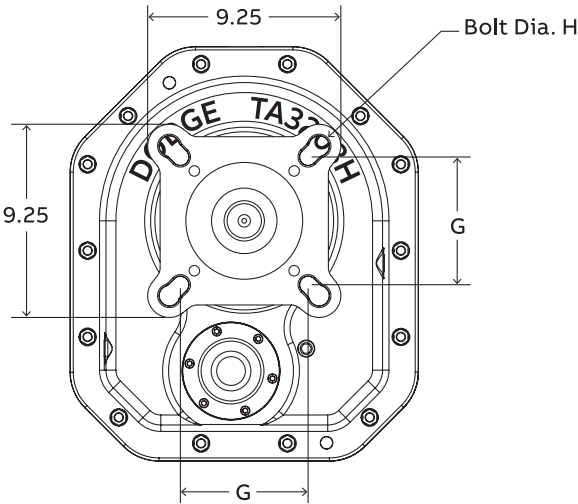
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



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	.75	6.75	7/8

TA3203H accessories for screw conveyor drives (1) (4) (5)

Description	Part number	Weight lbs.
TA3203SCA Adapter & hardware kit ⁽²⁾	903070	22.0
TA3203SCP Adjustable packing kit ⁽³⁾	903071	1.4
TA3203SCS x 1-1/2 Drive shaft	903072	19.3
TA3203SCS x 2 Drive shaft	903073	22.6
TA3203SCS x 2-7/16 Drive shaft	903074	27.2
TA3203SCS x 3 Drive shaft	903075	33.6
TA3203SCS x 3-7/16 Drive shaft	903076	44.8
TA3203SCS x 1-1/2 Stainless Steel drive shaft	903080	19.3
TA3203SCS x 2 Stainless Steel drive shaft	903081	22.6
TA3203SCS x 2-7/16 Stainless steel drive shaft	903082	27.2
TA3203SCS x 3 Stainless Steel drive shaft	903083	33.6
TA3203SCS x 3-7/16 Stainless steel drive shaft	903084	44.8
TA3203MM Motor mount assembly (56-286T)	903090	86.7
TA3203BG Belt guard - Pos. C (56-286T) ⁽¹⁾	903097	67.9
TA0-TA3 Hydra-Lock dessicant breather Kit HLO	964372	2.0
XT Enclosed breather system, TA0-9	240050	2.0
Dodge OPTIFY sensor	750000	0.5

- (1) Pos "C" Belt guard most popular for screw conveyor drive applications
- (2) SCA Adapter & hardware kit includes adapter, mounting wedge, keeper plate, key, seals and hardware
- (3) SCP Adjustable packing kit consists of flange, mounting hardware and braided packing seals
- (4) SCS Drive shaft is a shaft only. Hardware is stocked with the adapter & hardware kit.
- (5) A complete TA II screw conveyor drive, order a TA II reducer, SCA adapter & hardware kit, and SCS drive shaft. The SCP adjustable packing kit is an optional accessory.

TA3203H

Motor mount dimensions – position B & D

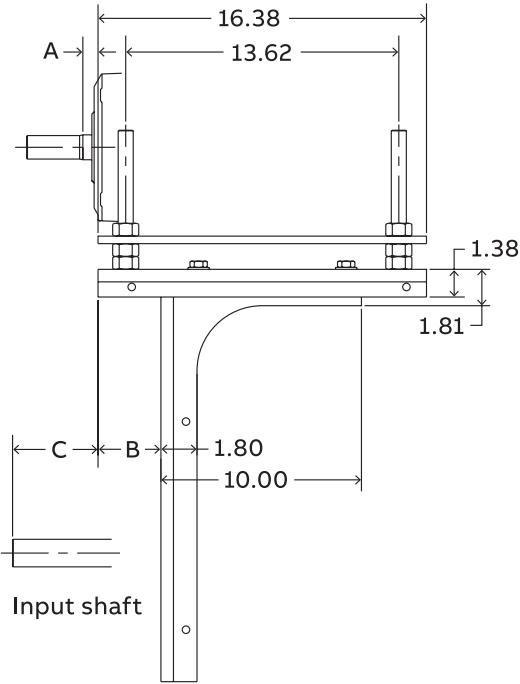
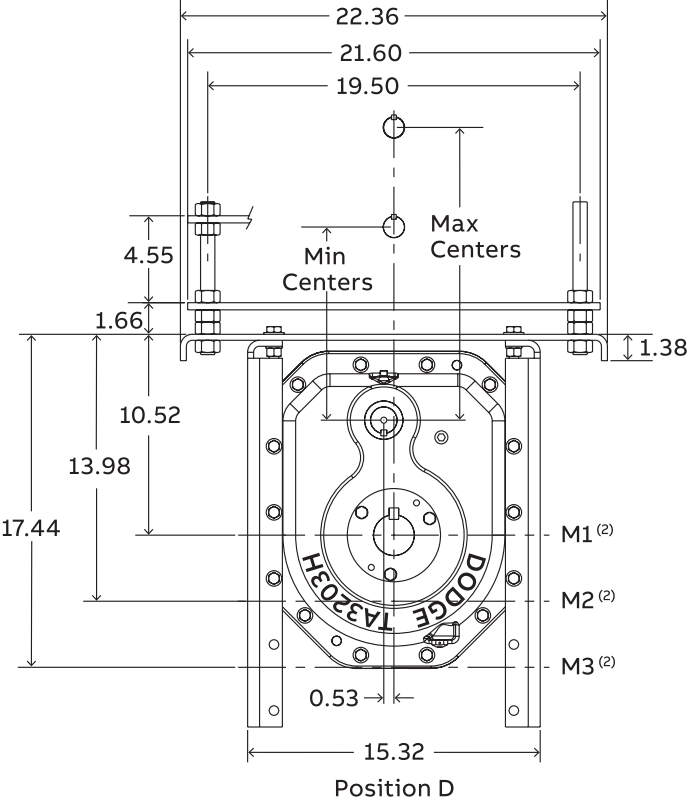
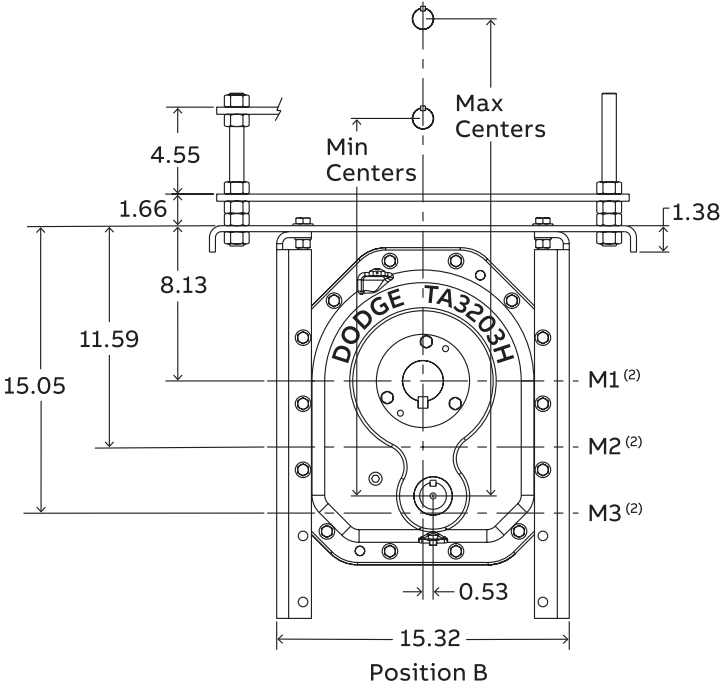
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Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



All dimensions are in inches.

TA3203H

Motor mount dimensions – position B & D

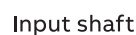
Mounting	Lateral adjustment				Motor mount height (2)	Motor frame					
						143T & 145T			182T & 184T		
						A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max
Position B	0.04	5.34	2.06	7.36	M1	1.22	19.8	23.9	1.37	20.8	24.9
					M2		23.3	27.3		24.3	28.3
					M3		26.7	30.8		27.7	31.8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

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

- (1) Motor Mount will fit NEMA and IEC frame motors; however, motor mount hardware are inch dimensions
- (2) M1, M2, M3 go through output shaft centerline

Notes: Minimum centers contains 0.5” to allow for belt assembly

Motor mount dimensions – position A & C



DODGE | TORQUE-ARM

TA3203H

Motor mount dimensions – position A & C

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

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

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

- Motor Mount will fit NEMA and IEC frame motors; however, motor mount hardware are inch dimensions
- M1, M2, M3, M4 go through output shaft centerline
- See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size
- For U or flared trough ends per CEMA 300-014

Notes: Minimum centers contains 0.5" to allow for belt assembly

TA4207H

Taper bushed reducers – single and double reductions

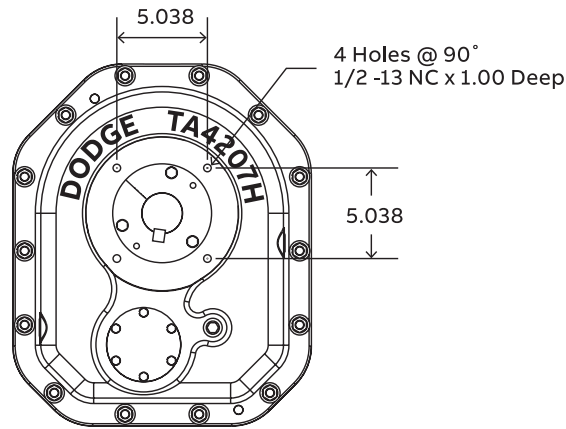
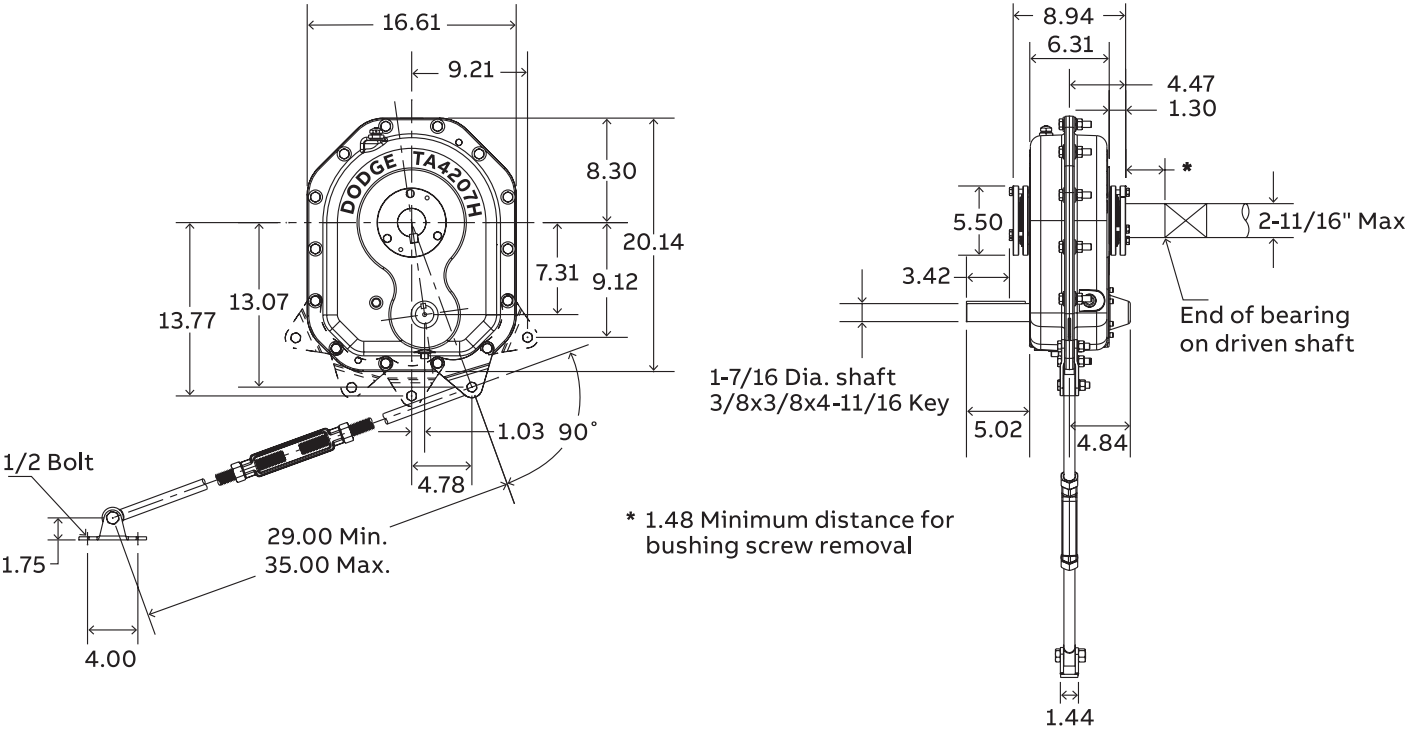
Reference Guide

Motorized Torque-Arm II

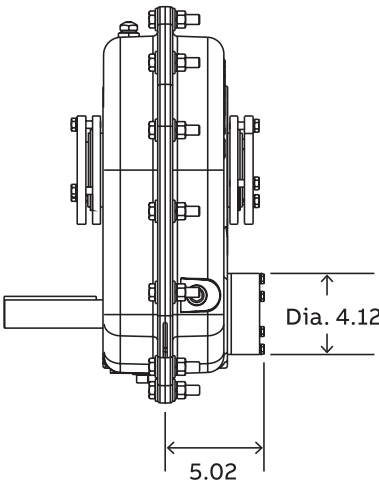
Torque-Arm II

Torque-Arm

Bulk Material Handling



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 lbs.
TA4207H05	904004	207S05	5.00	178.5
TA4207H09	904003	207D09	9.23	187.1
TA4207H15	904002	207D15	15.00	186.7
TA4207H25	904001	207D25	25.13	186.0
TA4207H40	904000	207D40	39.11	185.4

TA4207H accessories

Description	Part number	Weight lbs.
TA4207RA Rod Assembly ⁽¹⁾ +	904109	10.6
TA4207BS Backstop Assembly (5, 9, 15, 25:1) ⁽²⁾	904102	5.2
TA4207BS 40:1 Backstop Assembly ⁽²⁾	904103	5.2
TA4207MM Motor Mount Assembly (143-326T) ⁽³⁾	904090	114.3
TA4207BG Belt Guard - Pos. B (143-326T)	904096	79.6
TA4207 Belt guard assembly Pos. B M2	904101	64.0
TA4207BG Belt Guard - Pos. C (143-326T) ⁽⁴⁾	904097	82.7
TA4207BG Belt Guard - Pos. D (143-326T)	904099	80.6
TA4207CF Cooling Assembly ●	904106	2.0
TA4-TA9 Hydra-Lock Dessicant Breather Kit HL1	964364	2.0
XT Enclosed Breather System, TA0-9	240050	2.0
TA4-TA12 Vertical Breather Kit	904112	2.0
TA4207H V-Ring Kit	904249	0.3
TA4207H Lube Kit	LUBEKITA4207	16.2
Dodge OPTIFY sensor	750000	0.5

TA4207H tapered bushing kits (5) (6)

Bushing size	Part number	Weight lbs.	Shaft keyseat required (9) (10)
Standard shaft bushing kit	(7)		
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	904024	11.5	1/2 x 1/4 x 8.93
TA4207TB x 2-3/16	904025	11.8	1/2 x 1/4 x 8.93
TA4207TB x 2-1/8	904026	12.2	1/2 x 1/4 x 8.93
TA4207TB x 2	904027	12.6	1/2 x 1/4 x 8.93
TA4207TB x 1-15/16	904028	13.0	1/2 x 1/4 x 8.93
TA4207TB x 1-7/8	904029	13.2	1/2 x 1/4 x 8.93
TA4207TB x 1-3/4	904030	13.3	3/8 x 3/16 x 8.93
TA4207TB x 1-11/16	904031	13.5	3/8 x 3/16 x 8.93

Bushing size	Part number	Weight lbs.	Shaft keyseat required (9) (10)
Short shaft bushing kit (8)			
–	–	–	–
–	–	–	–
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
TA4207TBS x 1-7/8	904039	14.6	1/2 x 1/4 x 5.65
TA4207TBS x 1-3/4	904040	15.0	3/8 x 3/16 x 5.65
TA4207TBS x 1-11/16	904041	15.3	3/8 x 3/16 x 5.65

Bushing covers

Reducer size	Description	Part number	Weight
TA4207H	ABS Polymer closed ⁽¹²⁾	904142	0.6
TA4207H	ABS Polymer split ⁽¹²⁾	904143	0.5

▲ AGMA maximum bore size

■ See page G2-117 for maximum bore straight bore TA II reducers

● See page G2-114 for cooling fan dimensions

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

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

(2) See page G2-123 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 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 drive shaft in a screw conveyor application

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

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

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

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

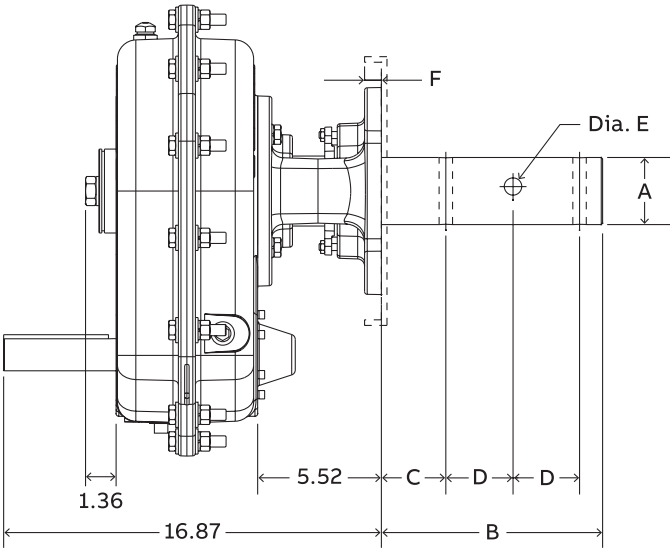
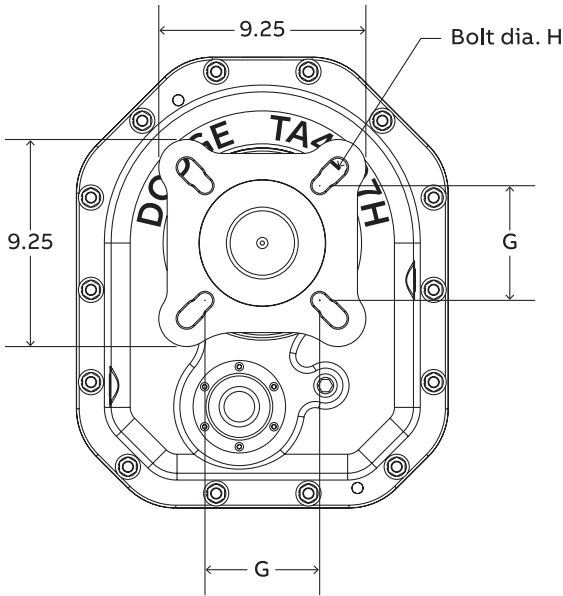
(12) ABS Polymer covers are designed with bolts for tapped reducers, non tapped reducers will require self tapping screws and customer modification of reducer

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	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	7/8

TA4207H accessories for screw conveyor drives (1) (4) (5)

Description	Part number	Weight lbs.
TA4207SCA Adapter & hardware kit ⁽²⁾	904070	33.6
TA4207SCP Adjustable packing kit ⁽³⁾	904071	2.1
TA4207SCS x 2 Drive shaft	904073	29.8
TA4207SCS x 2-7/16 Drive shaft	904074	34.5
TA4207SCS x 3 Drive shaft	904075	40.9
TA4207SCS x 3-7/16 Drive shaft	904076	54.7
TA4207SCS x 2 Stainless steel drive shaft	904081	29.8
TA4207SCS x 2-7/16 Stainless steel drive Shaft	904082	34.5
TA4207SCS x 3 Stainless steel drive shaft	904083	40.9
TA4207SCS x 3-7/16 Stainless steel drive shaft	904084	54.7
TA4207MM Motor mount assembly (143-326T)	904090	114.3
TA4207BG Belt guard - Pos. C (143-326T) ^{§1†}	904097	82.7
TA4-TA9 Hydra-Lock dessicant breather kit HL1	964364	2.0
XT Enclosed breather system, TA0-9	240050	2.0
Dodge OPTIFY sensor	750000	0.5

- (1) Pos "C" Belt guard most popular for screw conveyor drive applications
- (2) SCA Adapter & hardware kit includes adapter, mounting wedge, keeper plate, key, seals and hardware
- (3) SCP Adjustable packing kit consists of flange, mounting hardware and braided packing seals
- (4) SCS Drive shaft is a shaft only. Hardware is stocked with the adapter & hardware kit.
- (5) A complete TA II screw conveyor drive, order a TA II reducer, SCA adapter & hardware kit, and SCS drive shaft. The SCP adjustable packing kit is an optional accessory.

TA4207H

Motor mount dimensions – position B & D

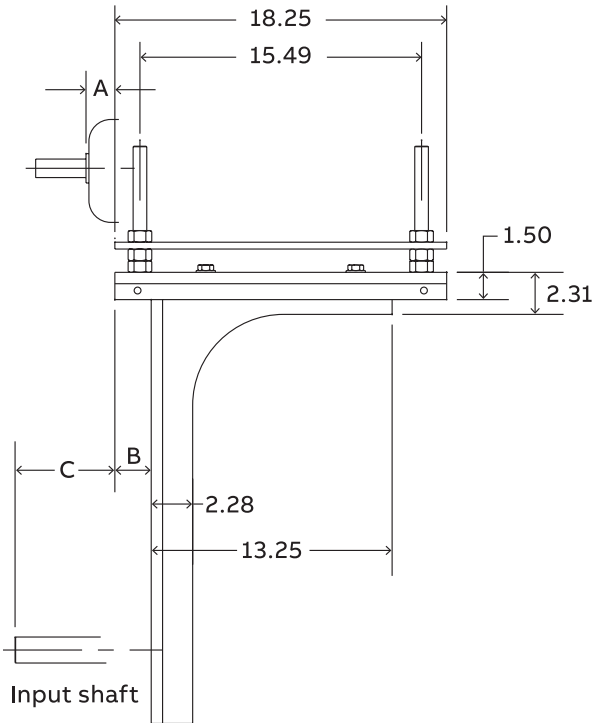
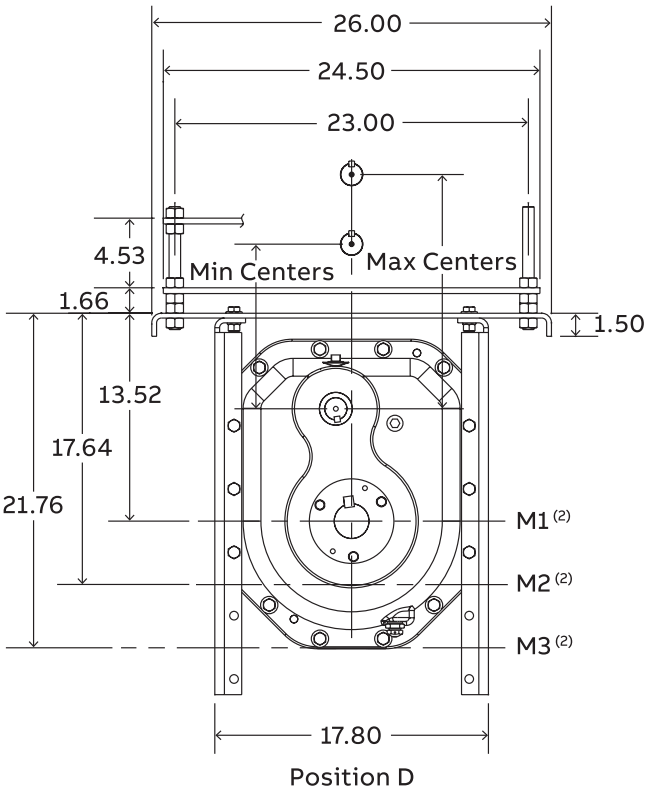
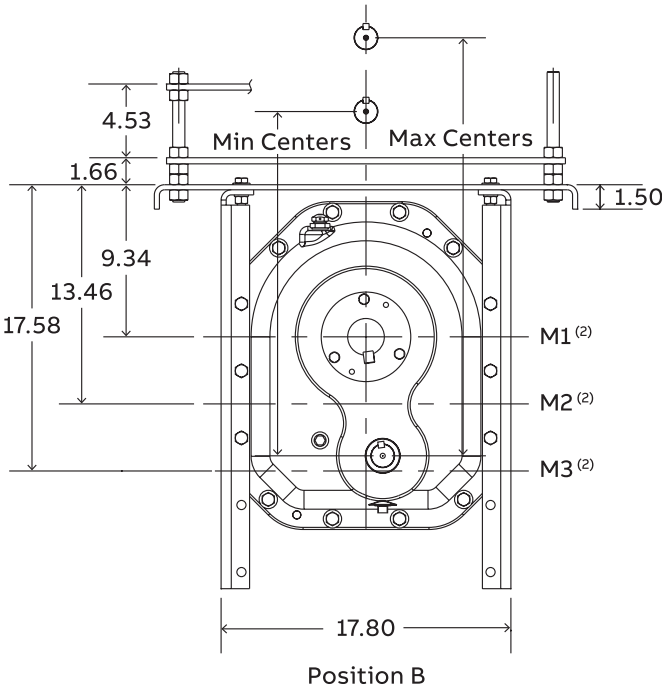
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



All dimensions are in inches.

TA4207H

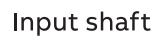
Motor mount dimensions – position B & D

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

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

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

Motor mount dimensions – position A & C



DODGE | TORQUE-ARM

TA4207H

Motor mount dimensions – position A & C

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

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						254T & 256T		284T & 286T		324T & 326T				
	A	Centers		A		Centers		A	Centers					
		B Min	B Max			C Min	C Max		Min	Max	Min	Max		
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

- (1) Motor Mount will fit NEMA and IEC frame motors; however, motor mount hardware are inch dimensions
- (2) M1, M2, M3, M4 go through output shaft centerline
- (3) See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size
- (4) For U or flared trough ends per CEMA 300-014

Notes: Minimum centers contains 0.5" to allow for belt assembly

TA5215H

Taper bushed reducers – single and double reductions

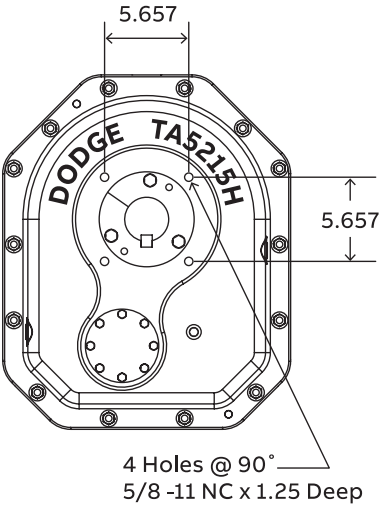
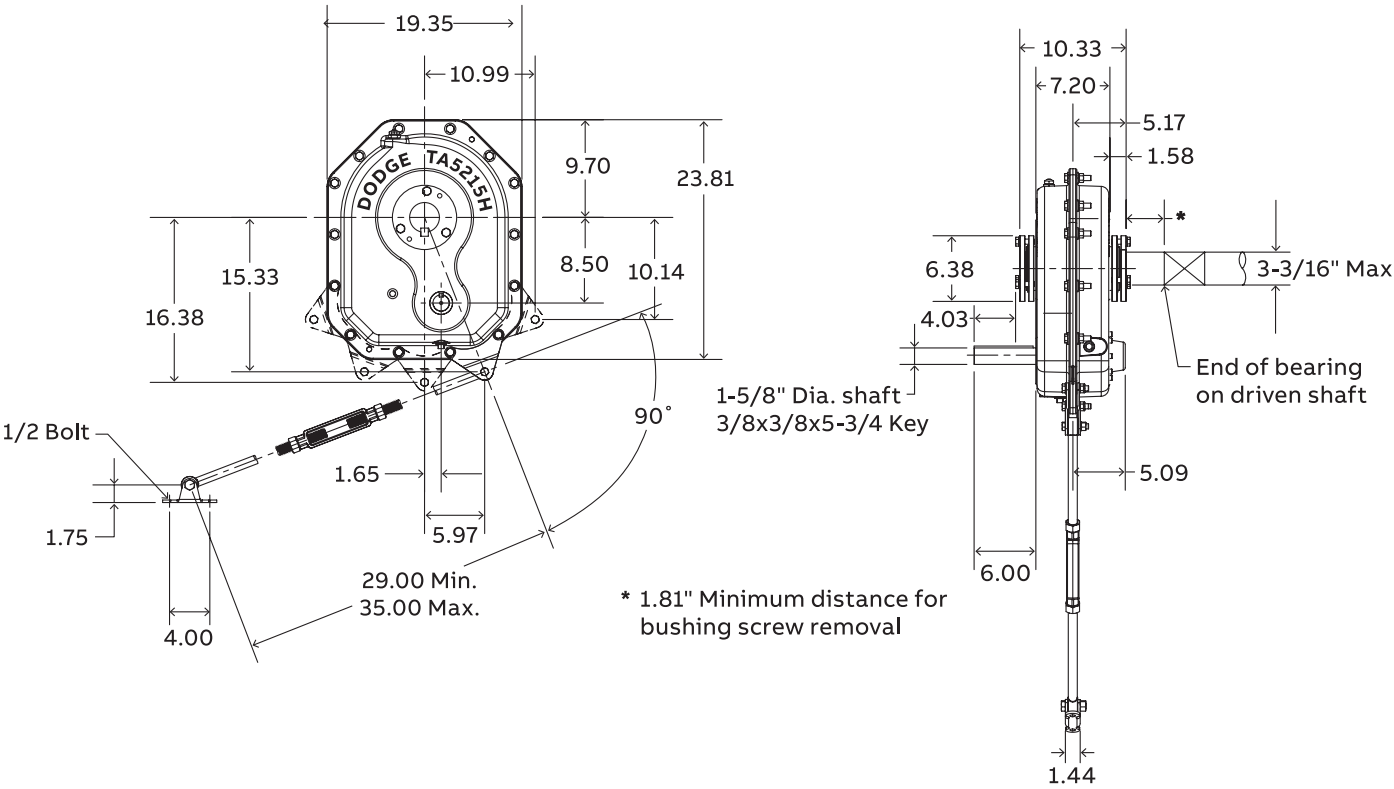
Reference Guide

Motorized Torque-Arm II

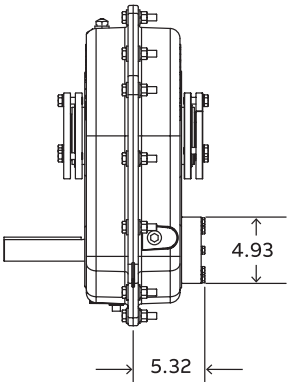
Torque-Arm II

Torque-Arm

Bulk Material Handling



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 lbs.
TA5215H05	905004	215S05	5.11	259.8
TA5215H09	905003	215D09	9.18	274.4
TA5215H15	905002	215D15	14.92	273.9
TA5215H25	905001	215D25	25.00	272.9
TA5215H40	905000	215D40	38.91	272.1

TA5215H accessories

Description	Part number	Weight lbs.
TA5215RA Rod Assembly ⁽¹⁾ +	905109	11.0
TA5215BS Backstop Assembly (5, 9, 15, 25:1) ⁽²⁾	905102	8.3
TA521BS 40:1 Backstop Assembly ⁽²⁾	905103	8.3
TA5215MM Motor Mount Assembly (182-365T) ⁽³⁾	905090	124.8
TA5215BG Belt Guard - Pos. B (182-365T)	905096	101.5
TA5215 Belt guard assembly Pos. B M2	905101	90.0
TA5215BG Belt Guard - Pos. C (182-365T) ⁽⁴⁾	905097	105.5
TA5215BG Belt Guard - Pos. D (182-365T)	905099	105.0
TA5215CF Cooling Fan Assembly ●	905106	3.0
TA4-TA9 Hydra-Lock Dessicant Breather Kit HL1	964364	2.0
XT Enclosed Breather System, TA0-9	240050	2.0
TA4-TA12 Vertical Breather Kit	904112	2.0
TA5215H V-Ring Kit	905249	0.3
TA5215H Lube Kit	LUBEKITA5215	28.9
Dodge OPTIFY sensor	750000	0.5

TA5215H tapered bushing kits ⁽⁵⁾ (6)

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Standard shaft bushing kit	(7)		(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	905026	18.1	5/8 x 5/16 x 10.34
TA5215TB x 2-3/8	905027	18.3	5/8 x 5/16 x 10.34
TA5215TB x 2-1/4	905028	18.9	1/2 x 1/4 x 10.34
TA5215TB x 2-3/16	905029	19.1	1/2 x 1/4 x 10.34
TA5215TB x 2-1/8	905030	19.3	1/2 x 1/4 x 10.34
TA5215TB x 2	905031	19.9	1/2 x 1/4 x 10.34
TA5215TB x 1-15/16	905032	20.1	1/2 x 1/4 x 10.34

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Short shaft bushing kit	(8)		(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
TA5215TBS x 2-3/8	905038	20.5	5/8 x 5/16 x 6.36
TA5215TBS x 2-1/4	905039	21.4	1/2 x 1/4 x 6.36
TA5215TBS x 2-3/16	905040	21.8	1/2 x 1/4 x 6.36
TA5215TBS x 2-1/8	905041	22.2	1/2 x 1/4 x 6.36
TA5215TBS x 2	905042	23.0	1/2 x 1/4 x 6.36
TA5215TBS x 1-15/16	905043	23.4	1/2 x 1/4 x 6.36

Bushing covers

Reducer size	Description	Part number	Weight
TA5215H	ABS Polymer closed ⁽¹²⁾	905142	1.5
TA5215H	ABS Polymer split ⁽¹²⁾	905143	1.3

▲ AGMA maximum bore size

■ See page G2-117 for maximum bore straight bore TA II reducers

● See page G2-114 for cooling fan dimensions

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

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

(2) See page G2-123 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 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 drive shaft in a screw conveyor application

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

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

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

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

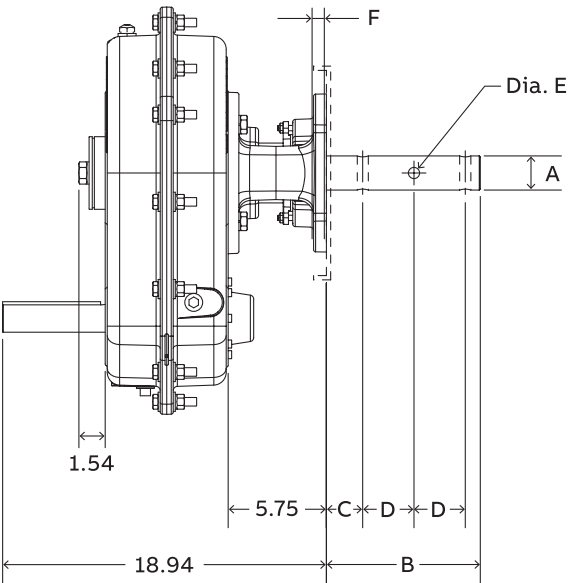
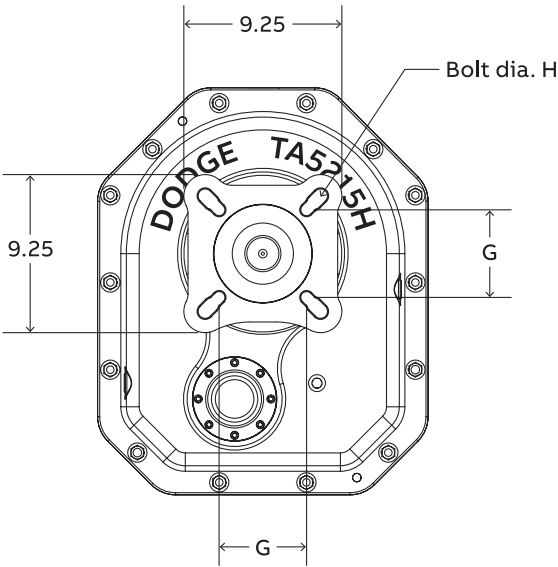
(12) ABS Polymer covers are designed with bolts for tapped reducers, non tapped reducers will require self tapping screws and customer modification of reducer

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



Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

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	7/8

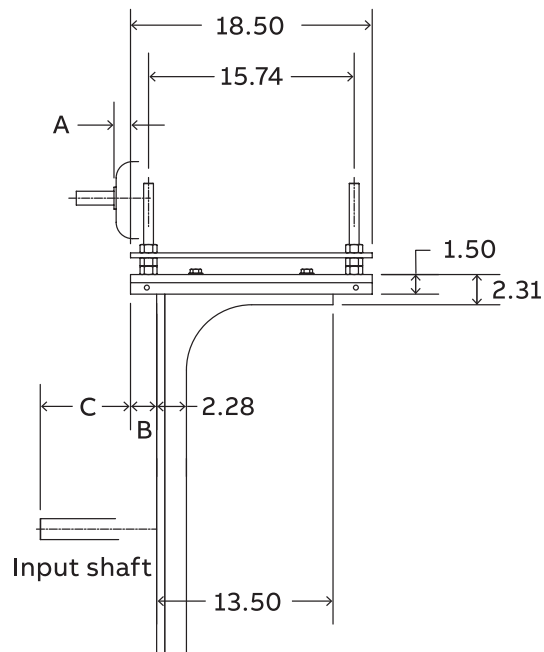
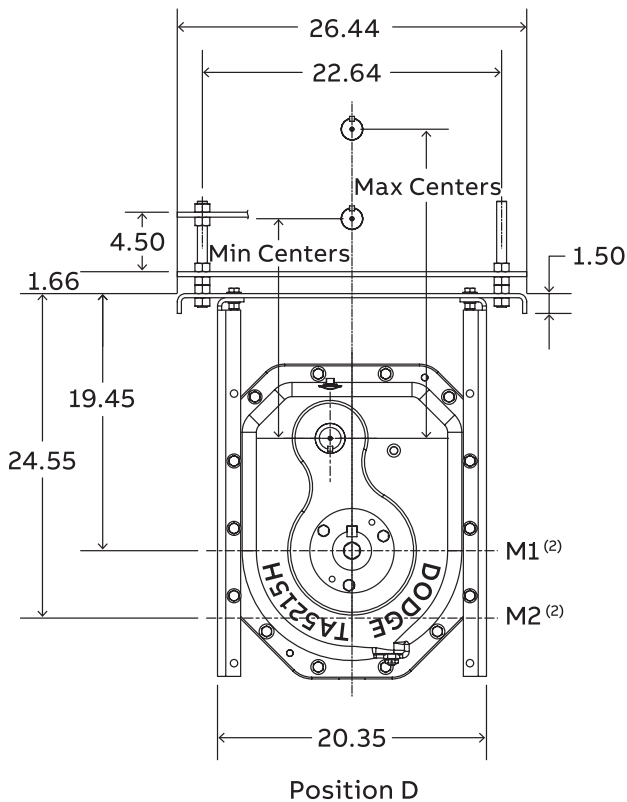
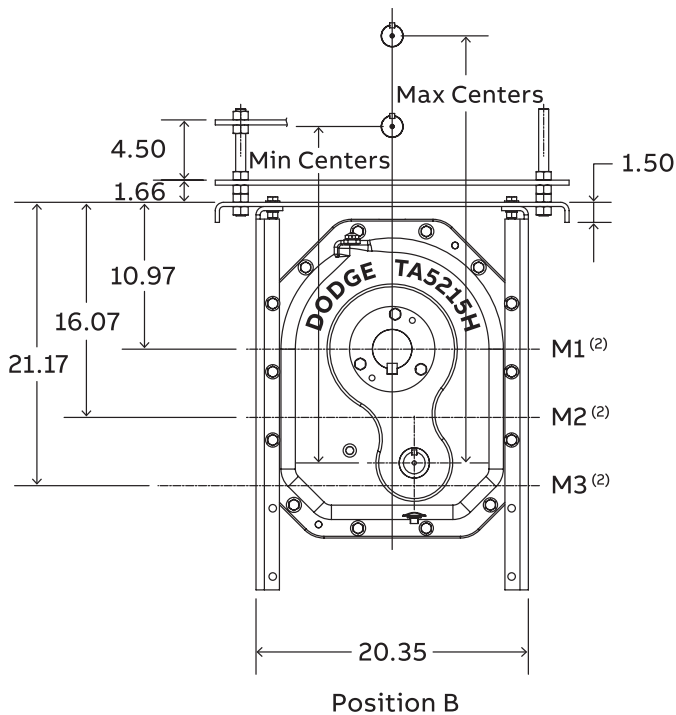
TA5215H accessories for screw conveyor drives ⁽¹⁾ ⁽⁴⁾ ⁽⁵⁾

Description	Part number	Weight lbs.
TA5215SCA Adapter & Hardware Kit ⁽²⁾	905070	38.4
TA5215SCP Adjustable Packing Kit ⁽³⁾	905071	2.1
TA5215SCS x 2 Drive Shaft	905073	39.0
TA5215SCS x 2-7/16 Drive Shaft	905074	43.6
TA5215SCS x 3 Drive Shaft	905075	50.0
TA5215SCS x 3-7/16 Drive Shaft	905076	63.9
TA5215SCS x 2 Stainless Steel Drive Shaft	905081	39.0
TA5215SCS x 2-7/16 Stainless Steel Drive Shaft	905082	43.6
TA5215SCS x 3 Stainless Steel Drive Shaft	905083	50.0
TA5215SCS x 3-7/16 Stainless Steel Drive Shaft	905084	63.9
TA5215MM Motor mount assembly (1852-365T)	905090	124.8
TA5215BG Belt guard - Pos. C (182-365T) ⁽¹⁾	905097	105.5
TA4-TA9 Hydra-Lock dessicant breather kit HL1	964364	2.0
XT Enclosed breather system, TA0-9	240050	2.0
Dodge OPTIFY sensor	750000	0.5

- (1) Pos "C" Belt guard most popular for screw conveyor drive applications
- (2) SCA Adapter & hardware kit includes adapter, mounting wedge, keeper plate, key, seals and hardware
- (3) SCP Adjustable packing kit consists of flange, mounting hardware and braided packing seals
- (4) SCS Drive shaft is a shaft only. Hardware is stocked with the adapter & hardware kit.
- (5) A complete TA II screw conveyor drive, order a TA II reducer, SCA adapter & hardware kit, and SCS drive shaft. The SCP adjustable packing kit is an optional accessory.

TA5215H

Motor mount dimensions – position B & D



All dimensions are in inches.

TA5215H

Motor mount dimensions – position B & D

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						143T & 145T				182T & 184T				213T & 215T
						A	Centers		A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max		Min	Max
Position B	-0.21	4.21	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 & 256T				284T & 286T				324T & 326T
						A	Centers		A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max		Min	Max
Position B	-0.21	4.21	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

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

TA5215H

Motor mount dimensions – position A & C

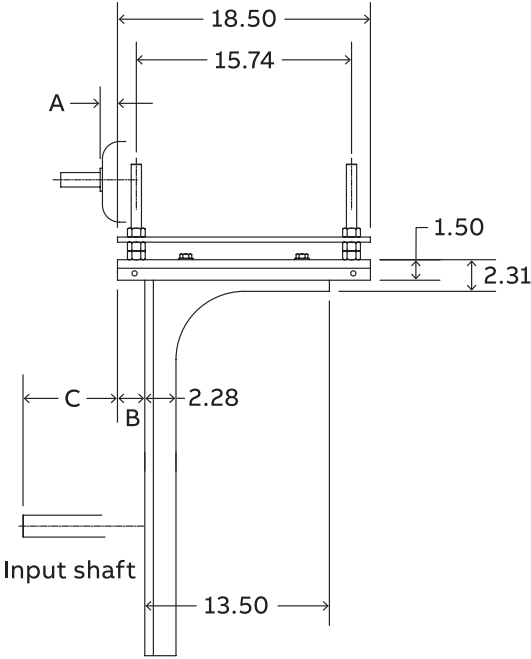
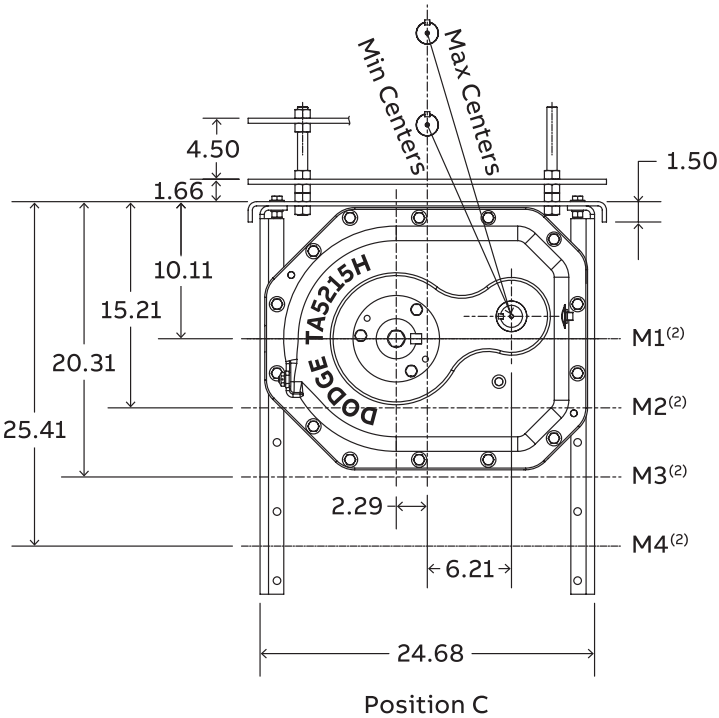
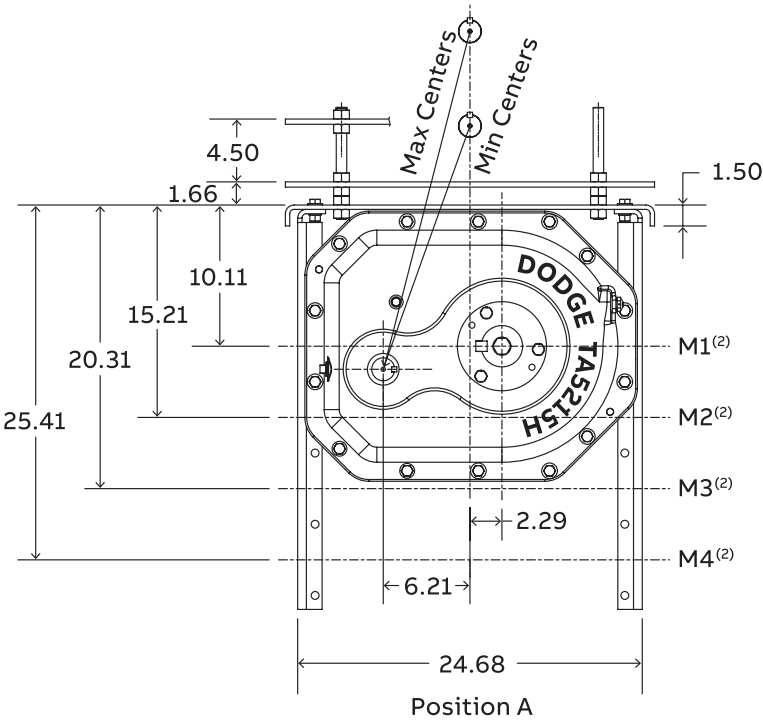
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



All dimensions are in inches.

TA5215H

Motor mount dimensions – position A & C

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame							
						182T & 184T				213T & 215T			
	Centers		Centers			Centers		Centers					
	B Min	B Max	C Min	C Max		A	Min	Max	A	Min	Max	A	Min
Position A	-0.21	4.21	5.77	10.19	M1	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	16.4	20.3	1.55	17.1	21.0	1.56	18.0	21.9
					M2	21.1	25.1		21.8	25.8		22.8	26.8
					M3	25.9	29.9		26.6	30.7		27.6	31.6
					M4	30.8	34.8		31.5	35.6		32.5	36.6

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						284T & 286T				324T & 326T				364T & 365T
	Centers		Centers			Centers		Centers						
	B Min	B Max	C Min	C Max		A	Min	Max	A	Min	Max	A	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

- (1) Motor Mount will fit NEMA and IEC frame motors; however, motor mount hardware are inch dimensions
- (2) M1, M2, M3, M4 go through output shaft centerline
- (3) See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size
- (4) For U or flared trough ends per CEMA 300-014

Notes: Minimum centers contains 0.5” to allow for belt assembly

TA6307H

Taper bushed reducers – single and double reductions

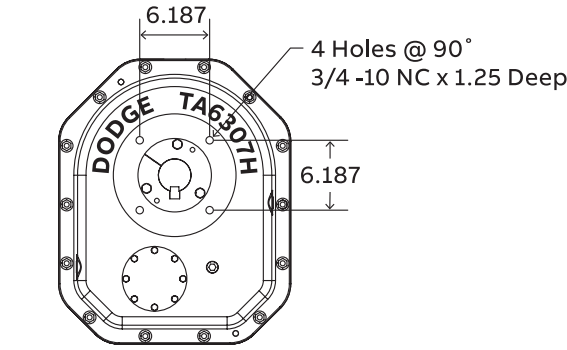
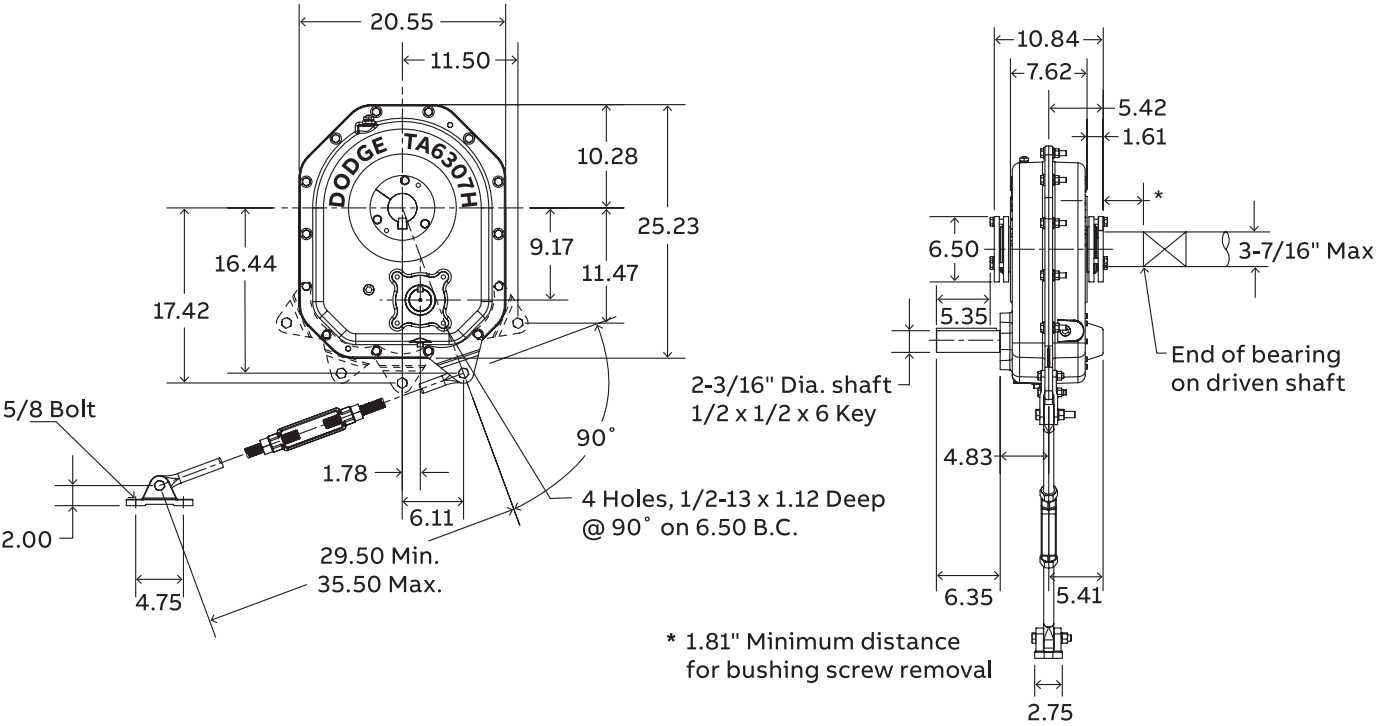
Reference Guide

Motorized Torque-Arm II

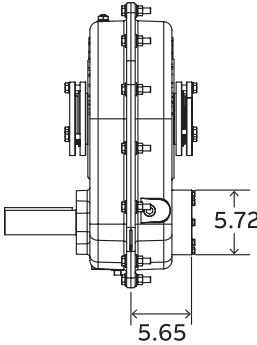
Torque-Arm II

Torque-Arm

Bulk Material Handling



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 lbs.
TA6307H05	906004	307S05	4.94	316.0
TA6307H09	906003	307D09	9.22	334.0
TA6307H15	906002	307D15	15.45	333.0
TA6307H25	906001	307D25	24.87	331.0
TA6307H40	906000	307D40	38.32	330.0

TA6307H accessories

Description	Part number	Weight lbs.
TA6307RA Rod assembly ⁽¹⁾ +	906109	19.9
TA6307BS Backstop assembly (5, 9, 15:1) ⁽²⁾	906102	11.1
TA6307BS 25:1 & 40:1 Backstop assembly ⁽²⁾	906103	11.1
TA6307MM Motor mount assembly (182-405T) ⁽³⁾	906090	156.7
TA6307BG Belt Guard - Pos. B (182-405T)	906096	121.2
TA6307 Belt guard assembly Pos. B M2	906101	119.0
TA6307BG Belt guard - Pos. C (182-405T) ⁽⁴⁾	906097	129.4
TA6307BG Belt guard - Pos. D (182-405T)	906099	122.2
TA6307CF Cooling fan assembly ●	906106	10.0
TA4-TA9 Hydra-Lock dessicant breather kit HL1	964364	2.0
XT Enclosed breather system, TA0-9	240050	2.0
TA4-TA12 Vertical breather kit	904112	3.0
TA6307H V-Ring kit	906249	0.4
TA6307H Lube kit	LUBEKITA6307	34.7
Dodge OPTIFY sensor	750000	0.5

TA6307H tapered bushing kits ⁽⁵⁾ (6)

Bushing size	Part number	Weight lbs.	Shaft keyseat required (9) (10)
Standard shaft bushing kit	(7)		
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
TA6307TB x 2-7/8	906024	20.1	3/4 x 3/8 x 10.82
TA6307TB x 2-11/16	906025	20.9	5/8 x 5/16 x 10.82
TA6307TB x 2-1/2	906026	22.1	5/8 x 5/16 x 10.82
TA6307TB x 2-7/16	906027	22.3	5/8 x 5/16 x 10.82
TA6307TB x 2-3/8	906028	22.7	5/8 x 5/16 x 10.82
TA6307TB x 2-1/4	906029	23.1	1/2 x 1/4 x 10.82
TA6307TB x 2-3/16	906030	23.3	1/2 x 1/4 x 10.82

Bushing size	Part number	Weight lbs.	Shaft keyseat required (9) (10)
Short shaft bushing kit			
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
TA6307TBS x 2-7/8	906035	22.3	3/4 x 3/8 x 6.72
TA6307TBS x 2-11/16	906036	23.7	5/8 x 5/16 x 6.72
TA6307TBS x 2-1/2	906037	25.3	5/8 x 5/16 x 6.72
TA6307TBS x 2-7/16	906038	25.8	5/8 x 5/16 x 6.72
TA6307TBS x 2-3/8	906039	26.3	5/8 x 5/16 x 6.72
TA6307TBS x 2-1/4	906040	26.7	1/2 x 1/4 x 6.72
TA6307TBS x 2-3/16	906041	27.5	1/2 x 1/4 x 6.72

Bushing covers

Reducer size	Description	Part number	Weight
TA6307H	ABS Polymer closed ⁽¹²⁾	905142	1.5
TA6307H	ABS Polymer split ⁽¹²⁾	905143	1.3

▲ AGMA maximum bore size

■ See page G2-117 for maximum bore straight bore TA II reducers

● See page G2-114 for cooling fan dimensions

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

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

(2) See page G2-123 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 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 drive shaft in a screw conveyor application

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

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

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

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

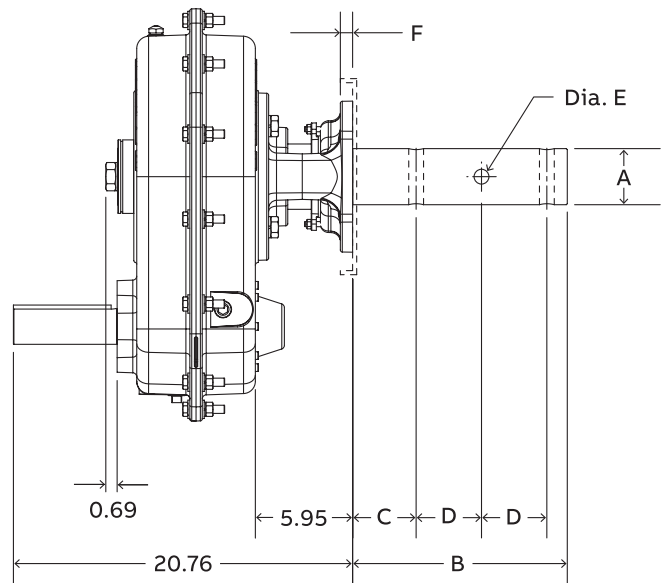
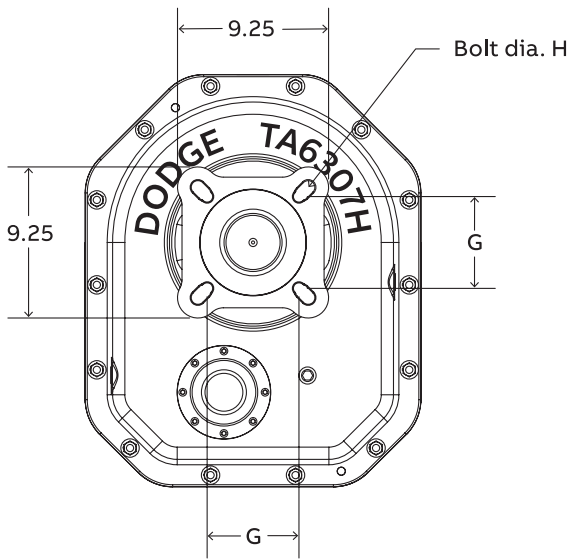
(12) ABS Polymer covers are designed with bolts for tapped reducers, non tapped reducers will require self tapping screws and customer modification of reducer

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	7/8

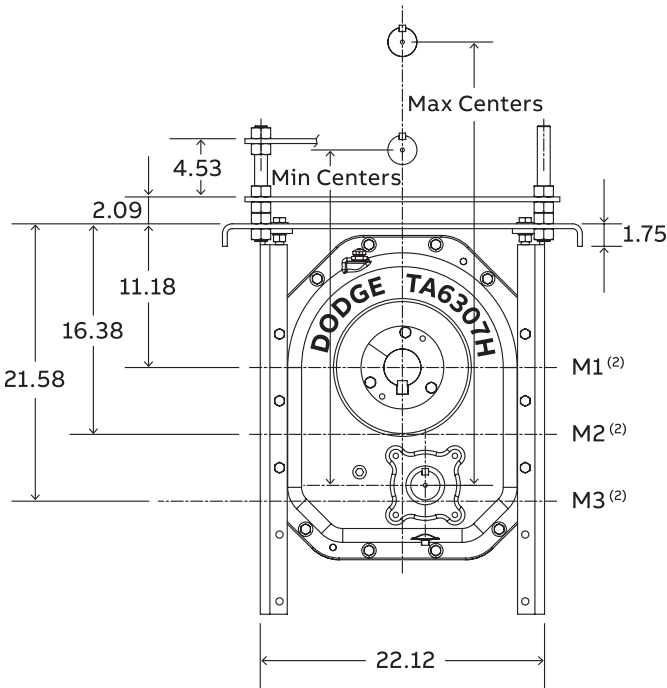
TA6307H accessories for screw conveyor drives ⁽¹⁾ ⁽⁴⁾ ⁽⁵⁾

Description	Part number	Weight lbs.
TA6307SCA Adapter & hardware kit ⁽²⁾	906070	40.0
TA6307SCP Adjustable packing kit ⁽³⁾	906071	2.4
TA6307SCS x 2-7/16 Drive shaft	906074	54.6
TA6307SCS x 3 Drive shaft	906075	61.0
TA6307SCS x 3-7/16 Drive shaft	906076	74.9
TA6307SCS x 2-7/16 Stainless steel drive shaft	906082	54.6
TA6307SCS x 3 Stainless steel drive shaft	906083	61.0
TA6307SCS x 3-7/16 Stainless steel drive shaft	906084	74.9
TA6307MM Motor mount assembly (182-405T)	906090	156.7
TA6307BG Belt guard - Pos. C (182-405T) ⁽¹⁾	902097	129.4
TA4-TA9 Hydra-Lock dessicant breather kit HL1	964364	2.0
XT Enclosed breather system, TA0-9	240050	2.0
Dodge OPTIFY sensor	750000	0.5

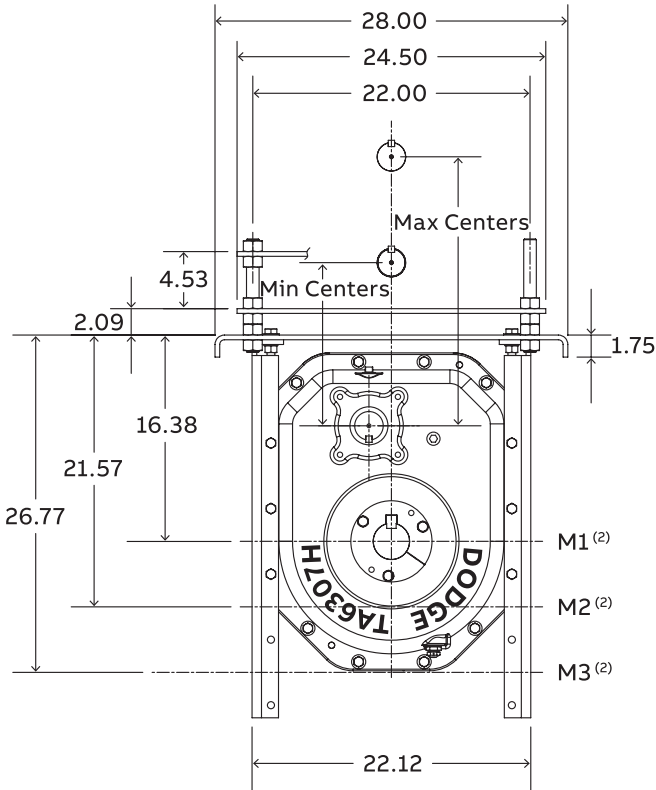
- (1) Pos "C" Belt guard most popular for screw conveyor drive applications
- (2) SCA Adapter & hardware kit includes adapter, mounting wedge, keeper plate, key, seals and hardware
- (3) SCP Adjustable packing kit consists of flange, mounting hardware and braided packing seals
- (4) SCS Drive shaft is a shaft only. Hardware is stocked with the adapter & hardware kit.
- (5) A complete TA II screw conveyor drive, order a TA II reducer, SCA adapter & hardware kit, and SCS drive shaft. The SCP adjustable packing kit is an optional accessory.

TA6307H

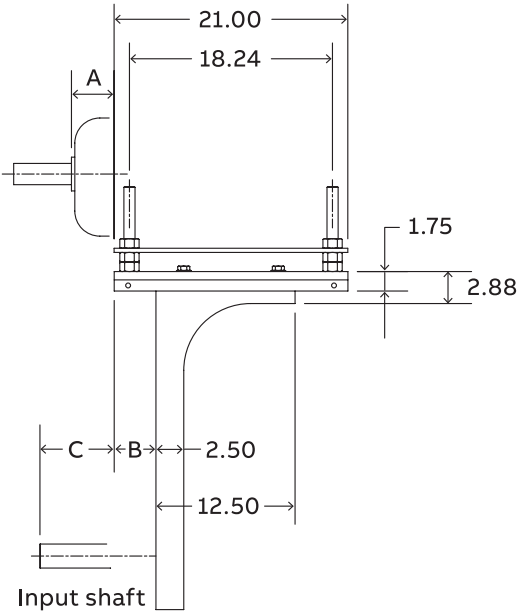
Motor mount dimensions – position B & D



Position B



Position D



All dimensions are in inches.

TA6307H

Motor mount dimensions – position B & D

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

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						324T & 326T			364T & 365T			404T & 405T		
						A	Centers		A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max			
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

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

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

Notes: Minimum centers contains 0.5" to allow for belt assembly

TA6307H

Motor mount dimensions – position A & C

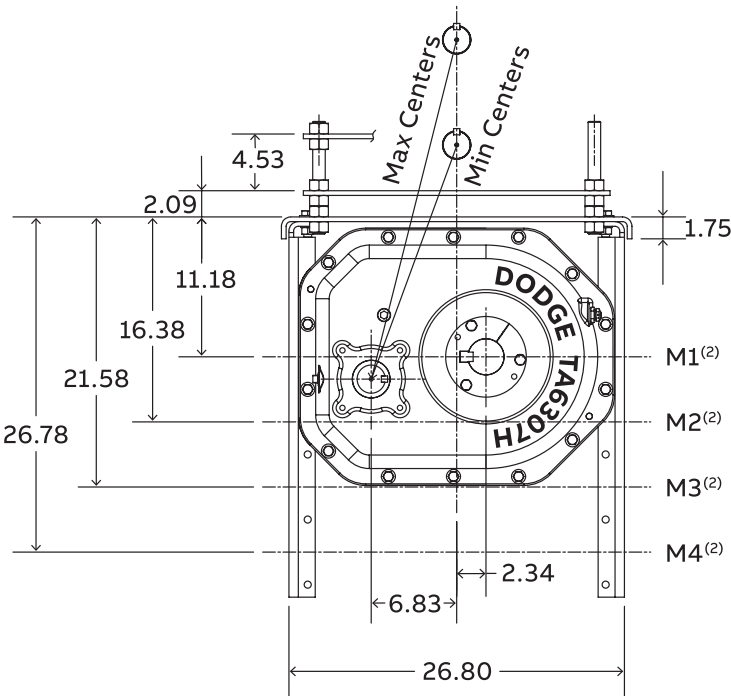
Reference Guide

Motorized Torque-Arm II

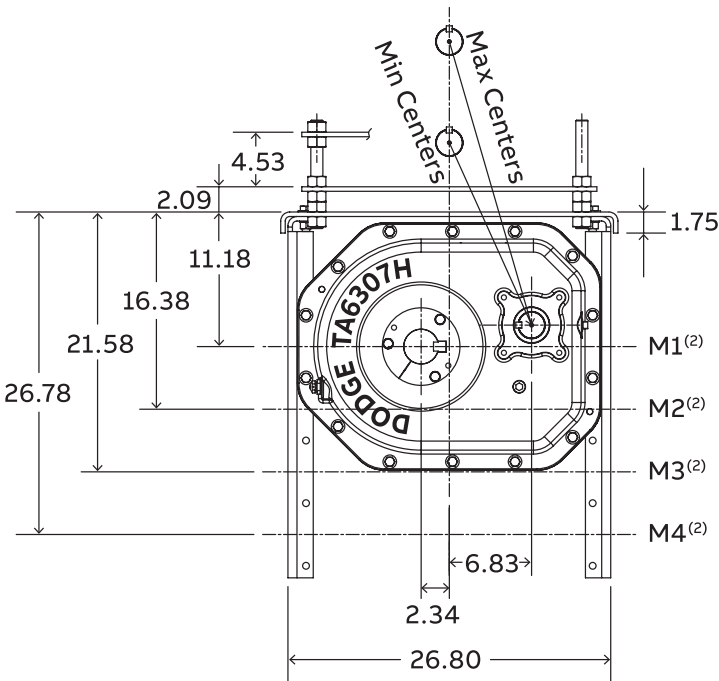
Torque-Arm II

Torque-Arm

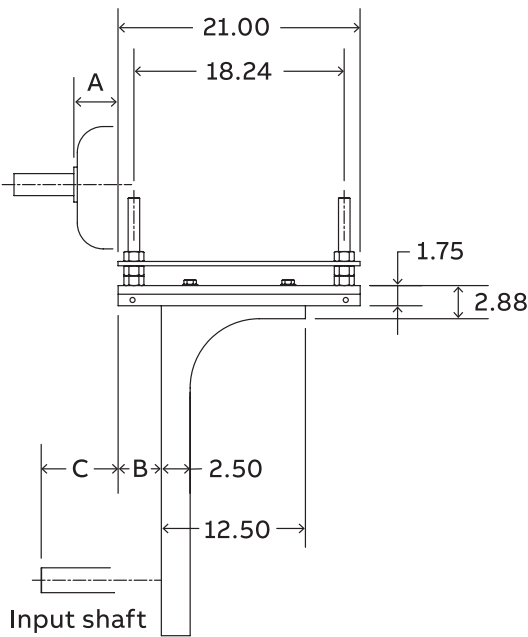
Bulk Material Handling



Position A



Position C



Input shaft

TA6307H

Motor mount dimensions – position A & C

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

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						324T & 326T			364T & 365T			404T & 405T		
	B Min	B Max	C Min	C Max		A	Centers		A	Centers		A	Centers	
							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

- (1) Motor Mount will fit NEMA and IEC frame motors; however, motor mount hardware are inch dimensions
- (2) M1, M2, M3, M4 go through output shaft centerline
- (3) See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size
- (4) For U or flared trough ends per CEMA 300-014

Notes: Minimum centers contains 0.5” to allow for belt assembly

TA7315H

Taper bushed reducers – single and double reductions

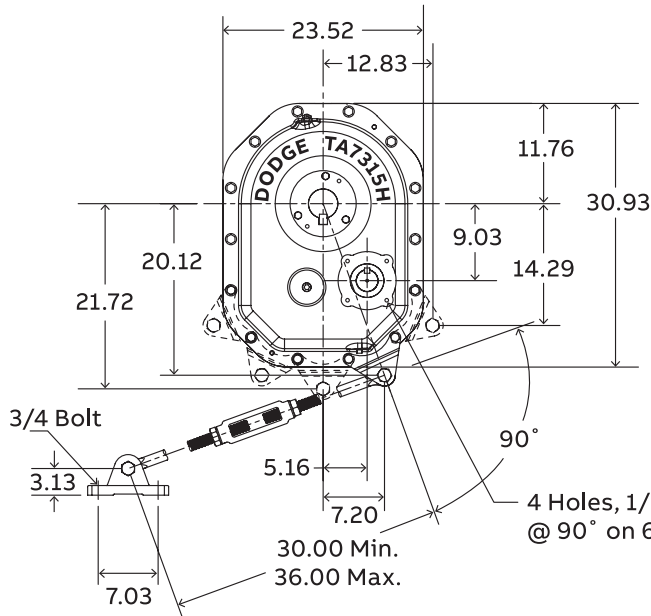
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

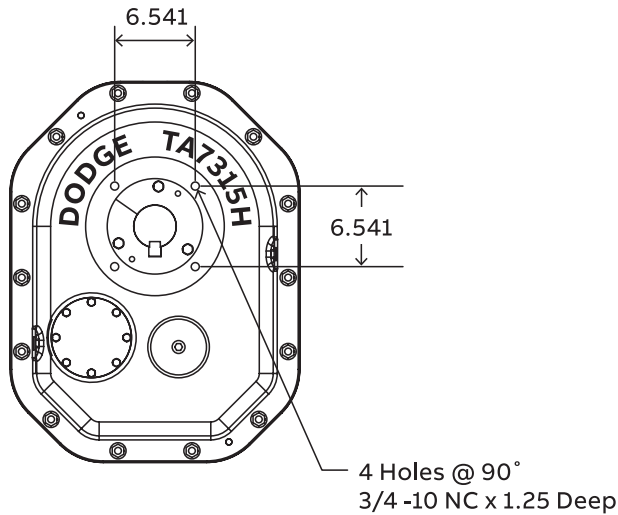
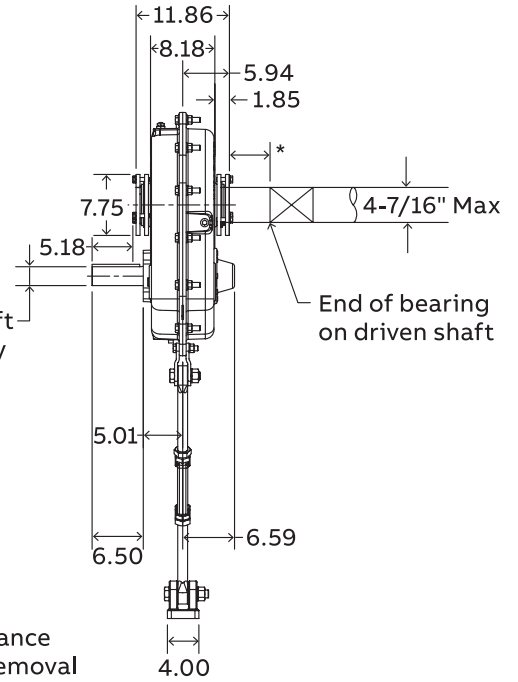
Torque-Arm

Bulk Material Handling

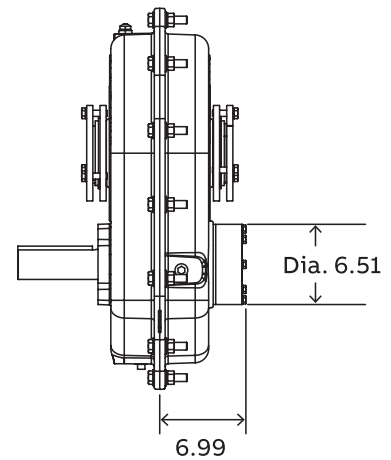


2-7/16" Dia. shaft
5/8 x 5/8 x 6 Key

* 2.06" Minimum distance
for bushing screw removal



Flange mounting dimensions



Reducer with backstop

TA7315H

Taper bushed reducers – single and double reductions

TA7315H taper bushed reducers ⁽¹⁾

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

TA7315H accessories

Description	Part number	Weight lbs.
TA7315/8407RA Rod assembly ⁽¹⁾ +	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
TA7315/8407MM Motor mount assembly (213-405T) ⁽³⁾	907090	183.3
TA7315/8407BG Belt guard - Pos. B (213-405T)	907096	147.2
TA7315, 8407 Belt guard assembly Pos. B M2	907101	161.0
TA7315/8407BG Belt guard - Pos. C (213-405T) ⁽⁴⁾	907097	152.7
TA7315/8407BG Belt guard - Pos. D (213-405T)	907099	148.2
TA7315/8407CF Cooling fan assembly ●	907106	10.0
TA4-TA9 Hydra-Lock dessicant breather kit HL1	964364	2.0
XT Enclosed breather system, TA0-9	240050	2.0
TA4-TA12 Vertical breather kit	904112	2.0
TA7315/8407H V-Ring kit	907249	0.4
TA7315H Lube kit	LUBEKITA7315	53.2
Dodge OPTIFY sensor	750000	0.5

TA7315H tapered bushing kits ^{(5) (6)}

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Standard shaft bushing kit	(7)		(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
TA7315TB x 3-3/16	907024	32.6	3/4 x 3/8 x 11.87
TA7315TB x 3	907025	34.0	3/4 x 3/8 x 11.87
TA7315TB x 2-15/16	907026	34.6	3/4 x 3/8 x 11.87
TA7315TB x 2-7/8	907027	35.0	3/4 x 3/8 x 11.87
TA7315TB x 2-11/16	907028	35.8	5/8 x 5/16 x 11.87
TA7315TB x 2-1/2	907029	37.2	5/8 x 5/16 x 11.87
TA7315TB x 2-7/16	907030	37.4	5/8 x 5/16 x 11.87

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Short shaft bushing kit	(8)		(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
TA7315TBS x 3-3/16	907033	36.7	3/4 x 3/8 x 7.62
TA7315TBS x 3	907034	38.8	3/4 x 3/8 x 7.62
TA7315TBS x 2-15/16	907035	39.6	3/4 x 3/8 x 7.62
TA7315TBS x 2-7/8	907036	40.2	3/4 x 3/8 x 7.62
TA7315TBS x 2-11/16	907037	41.7	5/8 x 5/16 x 7.62
TA7315TBS x 2-1/2	907038	43.6	5/8 x 5/16 x 7.62
TA7315TBS x 2-7/16	907039	44.1	5/8 x 5/16 x 7.62

Bushing covers

Reducer size	Description	Part number	Weight
TA7315H	ABS Polymer closed ⁽¹²⁾	907142	1.6
TA7315H	ABS Polymer split ⁽¹²⁾	907143	1.5

▲ AGMA maximum bore size

■ See page G2-114 for cooling fan dimensions

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

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

(2) See page G2-123 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 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 drive shaft in a screw conveyor application

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

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

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

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

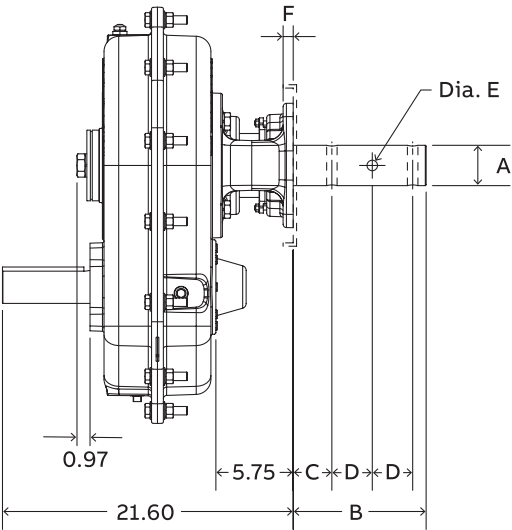
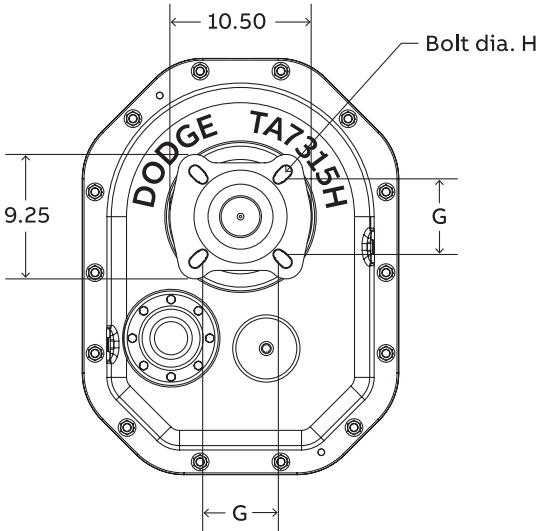
(12) ABS Polymer covers are designed with bolts for tapped reducers, non tapped reducers will require self tapping screws and customer modification of reducer

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



Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

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	7/8

TA7315H accessories for screw conveyor drives ⁽¹⁾ ⁽⁴⁾ ⁽⁵⁾

Description	Part number	Weight lbs.
TA7315SCA Adapter & Hardware Kit ⁽²⁾	907070	50.1
TA7315SCP Adjustable Packing Kit ⁽³⁾	907071	2.5
TA7315SCS x 2-7/16 Drive Shaft	907074	77.0
TA7315SCS x 3 Drive Shaft	907075	83.4
TA7315SCS x 3-7/16 Drive Shaft	907076	97.3
TA7315SCS x 2-7/16 Stainless Steel Drive Shaft	907082	77.0
TA7315SCS x 3 Stainless Steel Drive Shaft	907083	83.4
TA7315SCS x 3-7/16 Stainless Steel Drive Shaft	907084	97.3
TA7315/8407MM Motor mount assembly (213-405T)	907090	183.7
TA7315/8407BG Belt guard - Pos. C (213-405T) ^{81f}	907097	152.7
TA4-TA9 Hydra-Lock dessicant breather kit HL1	964364	2.0
XT Enclosed breather system, TA0-9	240050	2.0
Dodge OPTIFY sensor	750000	0.5

- (1) Pos "C" Belt guard most popular for screw conveyor drive applications
- (2) SCA Adapter & hardware kit includes adapter, mounting wedge, keeper plate, key, seals and hardware
- (3) SCP Adjustable packing kit consists of flange, mounting hardware and braided packing seals
- (4) SCS Drive shaft is a shaft only. Hardware is stocked with the adapter & hardware kit.
- (5) A complete TA II screw conveyor drive, order a TA II reducer, SCA adapter & hardware kit, and SCS drive shaft. The SCP adjustable packing kit is an optional accessory.

TA7315H

Motor mount dimensions – position B & D

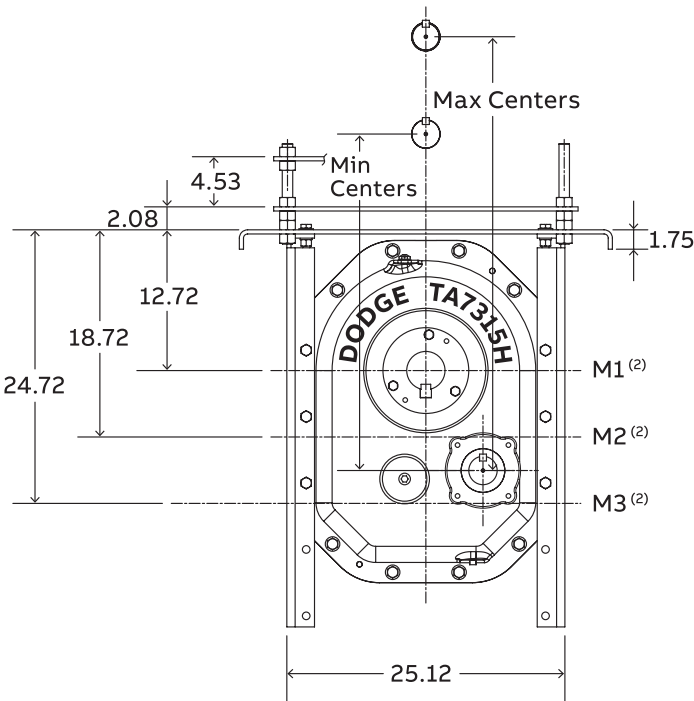
Reference Guide

Motorized Torque-Arm II

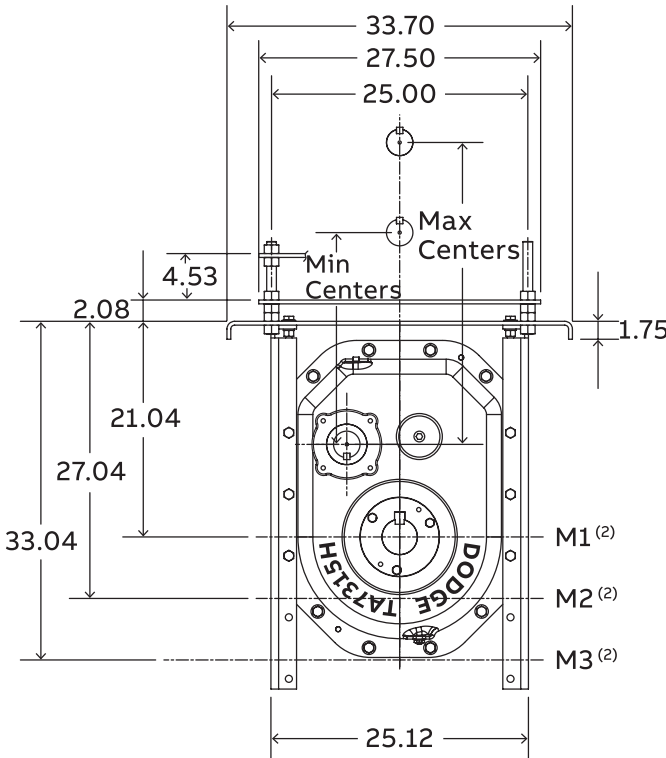
Torque-Arm II

Torque-Arm

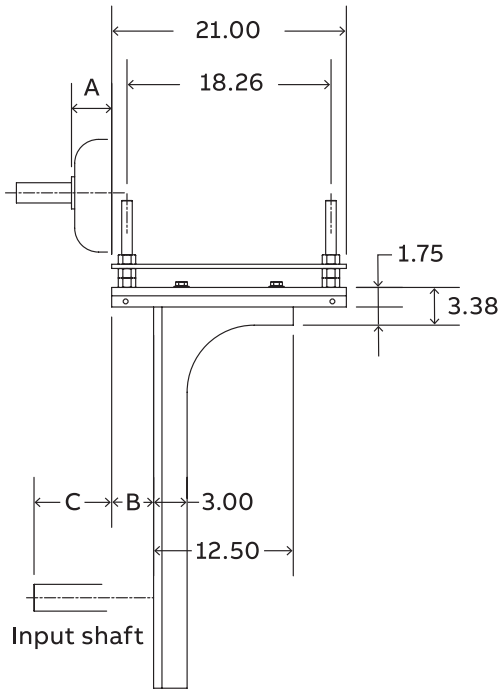
Bulk Material Handling



Position B



Position D



TA7315H

Motor mount dimensions – position B & D

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

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

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

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

Notes: Minimum centers contains 0.5" to allow for belt assembly

TA7315H

Motor mount dimensions – position A & C

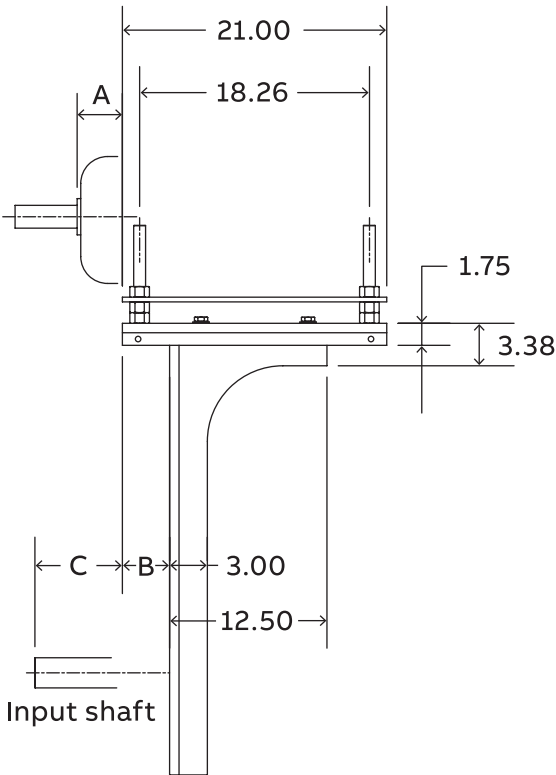
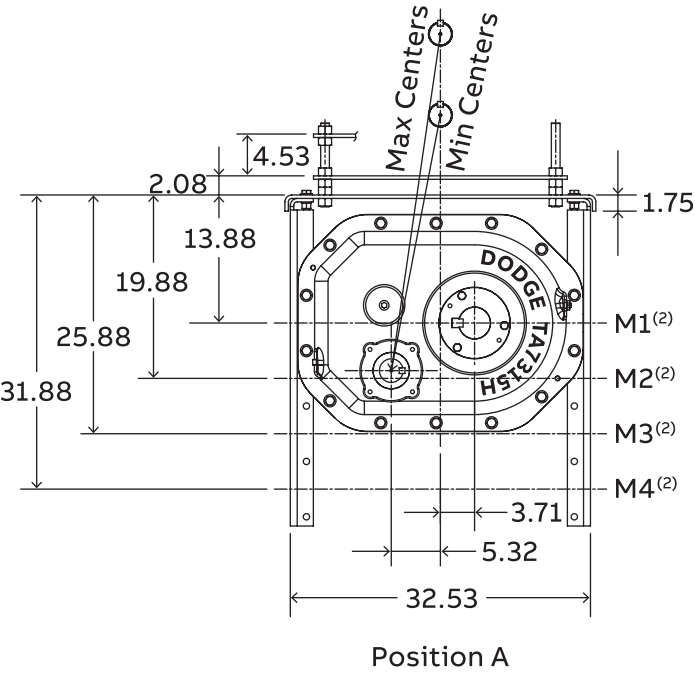
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



All dimensions are in inches.

TA7315H

Motor mount dimensions – position A & C

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

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						324T & 326T			364T & 365T			404T & 405T		
	B Min	B Max	C Min	C Max		A	Centers		A	Centers		A	Centers	
							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

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

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

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

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

Notes: Minimum centers contains 0.5” to allow for belt assembly

TA8407H

Taper bushed reducers – double reductions

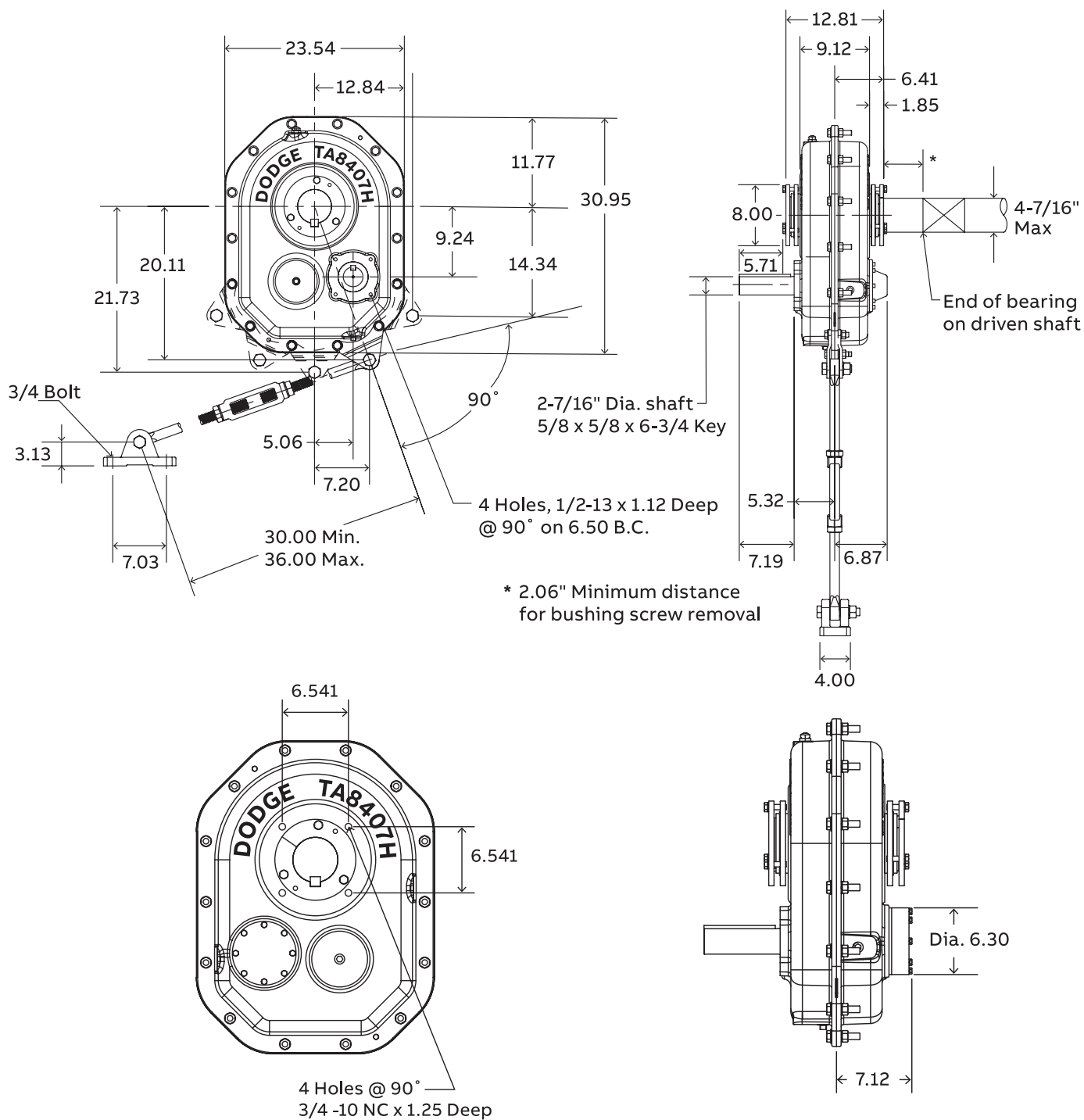
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



Flange mounting dimensions

Reducer with backstop

TA8407H

Taper bushed reducers – double reductions

TA8407H taper bushed reducers ⁽¹⁾

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

TA8407H accessories

Description	Part number	Weight lbs.
TA7315/8407RA Rod Assembly ⁽¹⁾ +	907109	43.2
TA8407BS Backstop Assembly (15, 25:1) ⁽²⁾	908102	15.0
TA8407BS 40:1 Backstop Assembly ⁽²⁾	908103	15.7
TA7315/8407MM Motor Mount Assembly (213-405T) ⁽³⁾	907090	183.3
TA7315/8407BG Belt Guard - Pos. B (213-405T)	907096	147.2
TA7315, 8407 Belt guard assembly Pos. B M2	907101	161.0
TA7315/8407BG Belt Guard - Pos. C (213-405T)	907097	152.7
TA7315/8407BG Belt Guard - Pos. D (213-405T)	907099	148.2
TA7315/8407CF Cooling Fan Assembly ●	907106	10.0
TA4-TA9 Hydra-Lock Dessicant Breather Kit HL1	964364	2.0
XT Enclosed Breather System, TA0-9	240050	2.0
TA4-TA12 Vertical Breather Kit	904112	2.0
TA7315/8407H V-Ring Kit	907249	0.4
TA8407H Lube Kit	LUBEKITT8407	53.2
Dodge OPTIFY sensor	750000	0.5

TA8407H tapered bushing kits ^{(4) (5)}

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Standard shaft bushing kit	(6)		(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
TA8407TB x 3-7/16	908023	36.7	7/8 x 7/16 x 12.82
TA8407TB x 3-3/16	908024	38.4	3/4 x 3/8 x 12.82
TA8407TB x 3	908025	39.8	3/4 x 3/8 x 12.82
TA8407TB x 2-15/16	908026	40.4	3/4 x 3/8 x 12.82

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Short shaft bushing kit	(7)		(8) (9)
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
TA8407TBS x 3-7/16	908030	42.4	7/8 x 7/16 x 8.10
TA8407TBS x 3-3/16	908031	45.3	3/4 x 3/8 x 8.10
TA8407TBS x 3	908032	47.5	3/4 x 3/8 x 8.10
TA8407TBS x 2-15/16	908033	48.3	3/4 x 3/8 x 8.10

Bushing covers

Reducer size	Description	Part number	Weight
TA8407H	ABS Polymer closed ⁽¹²⁾	908142	1.7
TA8407H	ABS Polymer split ⁽¹²⁾	908143	1.6

▲ AGMA maximum bore size

● See page G2-114 for cooling fan dimensions

◆ SCA Adapter & Hardware Kit is available for TA8407H reducers as a non-stock product. Consult engineering

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

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

(2) See page G2-123 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 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 drive shaft in a screw conveyor application

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

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

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

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

(12) ABS Polymer covers are designed with bolts for tapped reducers, non tapped reducers will require self tapping screws and customer modification of reducer

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

Motor mount dimensions – position B & D



G2-94

TA8407H

Motor mount dimensions – position B & D

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

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						324T & 326T		364T & 365T		404T & 405T				
						A	Centers		A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max			
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

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

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

Notes: Minimum centers contains 0.5" to allow for belt assembly

TA8407H

Motor mount dimensions – position A & C

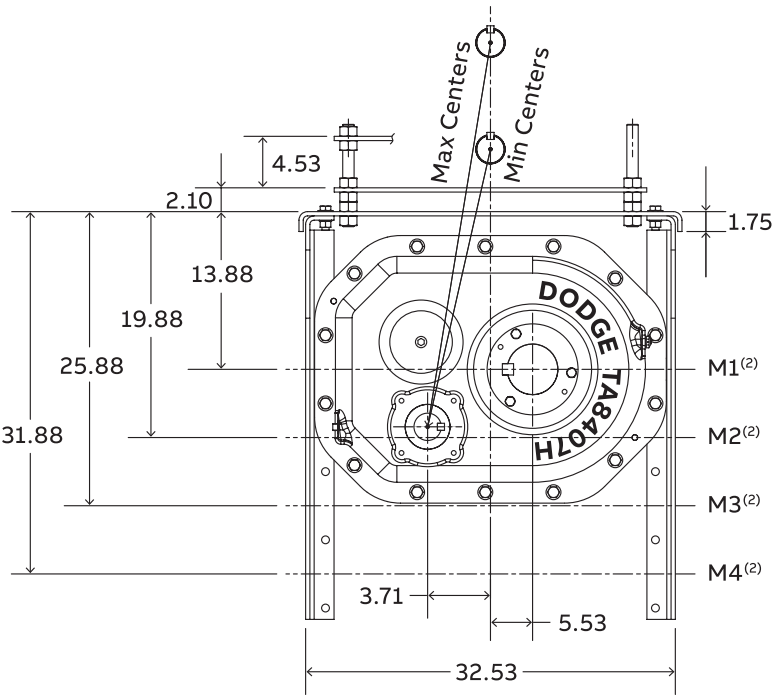
Reference Guide

Motorized Torque-Arm II

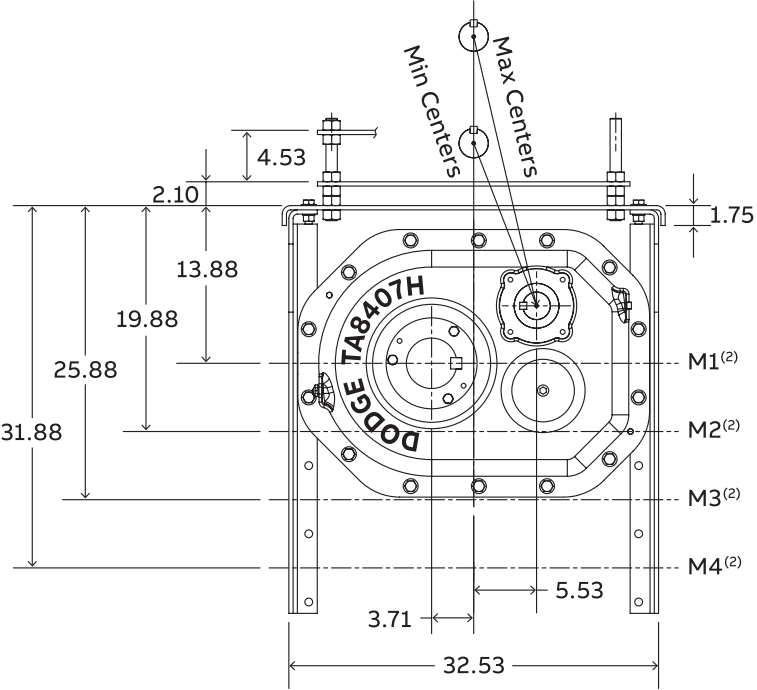
Torque-Arm II

Torque-Arm

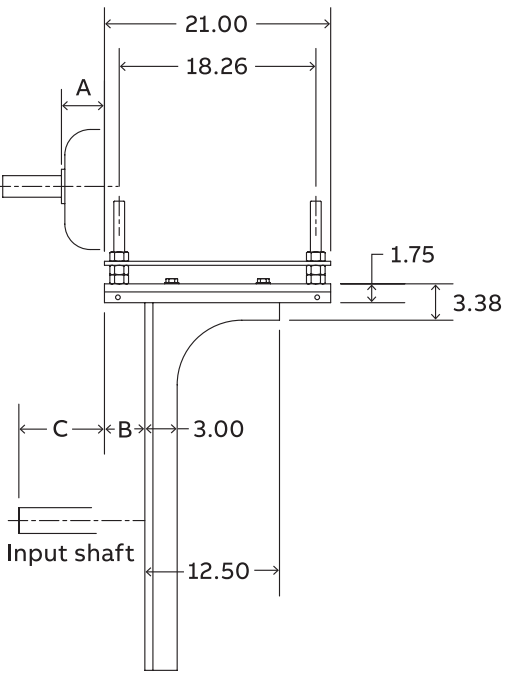
Bulk Material Handling



Position A



Position C



TA8407H

Motor mount dimensions – position A & C

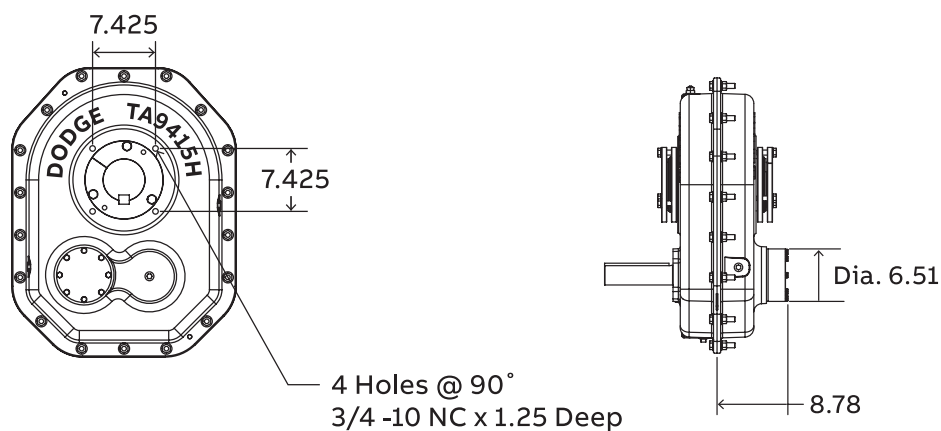
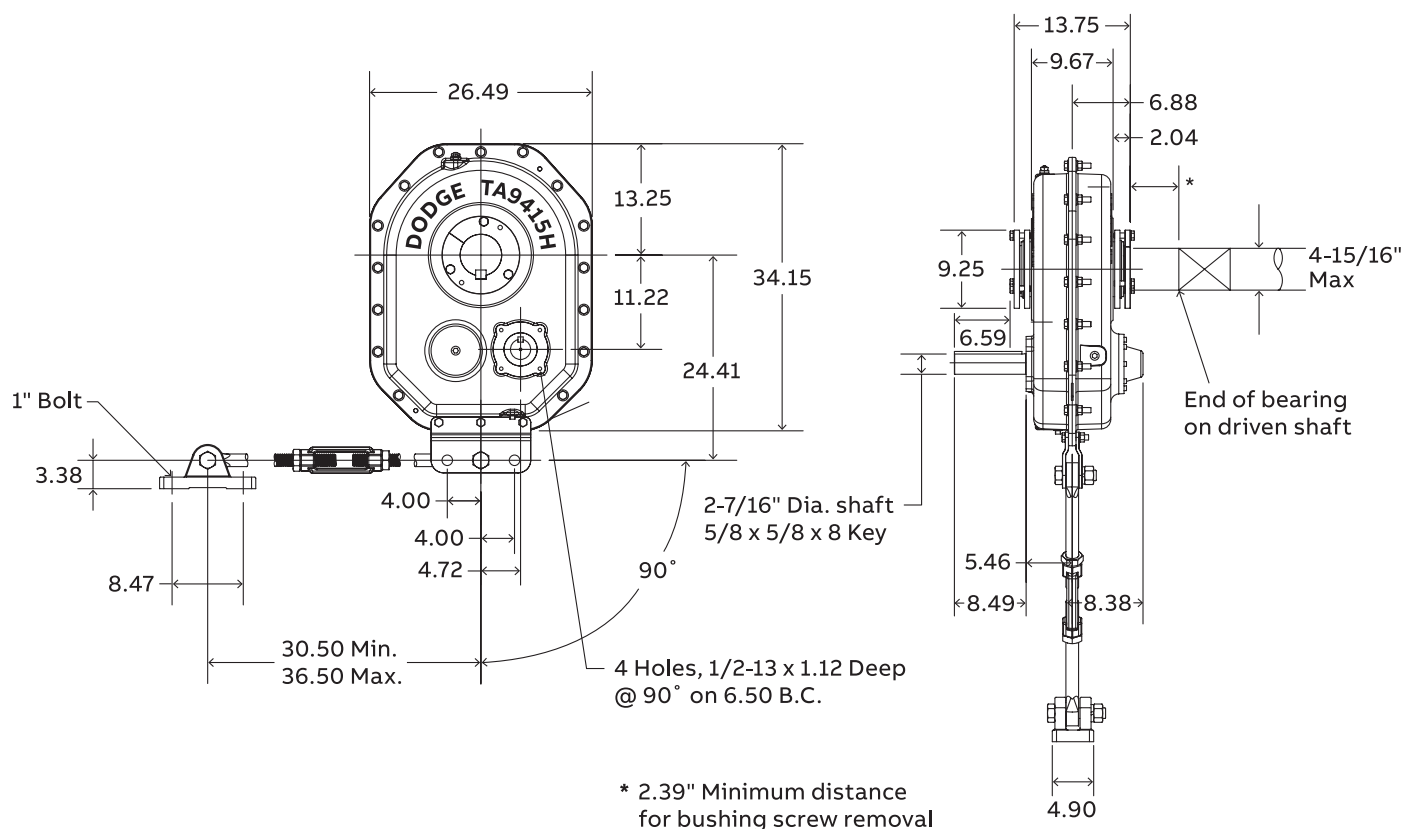
Mounting	Lateral adjustment				Motor mount height (2)	Motor frame											
						213T & 215T				254T & 256T				284T & 286T			
						A	Centers		A	Centers		A	Centers				
	Min	Max	Min	Max			Min	Max									
Position A	1.59	5.91	7.04	11.36	M1	1.55	27.4	31.3	1.56	28.3	32.3	1.16	29.1	33.0			
					M2		33.2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

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						324T & 326T				364T & 365T				404T & 405T
	Centers		A	Centers		A	Centers	A	Centers					
	B Min	B Max								C Min	C Max	Min	Max	Min
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

- (1) Motor Mount will fit NEMA and IEC frame motors; however, motor mount hardware are inch dimensions
 (2) M1, M2, M3, M4 go through output shaft centerline
 (3) See Table A, below, for minimum “M” mounting position required for specific screw diameter and reducer size

Notes: Minimum centers contains 0.5” to allow for belt assembly

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 lbs.
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 lbs.
TA9415RA Rod Assembly ⁽¹⁾ +	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
TA9415CF Cooling Fan Assembly ●	909106	12.4
TA4-TA9 Hydra-Lock Dessicant Breather Kit HL1	964364	2.0
XT Enclosed Breather System, TA0-9	240050	2.0
TA4-TA12 Vertical Breather Kit	904112	2.0
TA9415H V-Ring Kit	909249	0.5
TA9415H Lube Kit	LUBEKITA9415	79.8
Dodge OPTIFY sensor	750000	0.5

TA9415H tapered bushing kits ⁽⁴⁾

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Standard shaft bushing kit	(5)		(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
TA9415TB x 4-3/16	909022	46.4	1 x 1/2 x 13.74
TA9415TB x 3-15/16	909023	49.2	1 x 1/2 x 13.74
TA9415TB x 3-7/16	909024	53.1	7/8 x 7/16 x 13.74

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Short shaft bushing kit	(6)		(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
TA9415TBS x 4-3/16	909027	53.4	1 x 1/2 x 8.56
TA9415TBS x 3-15/16	909028	57.7	1 x 1/2 x 8.56
TA9415TBS x 3-7/16	909029	64.4	7/8 x 7/16 x 8.56

Bushing covers

Reducer size	Description	Part number	Weight
TA9415H	ABS Polymer closed ⁽¹²⁾	909142	2.0
TA9415H	ABS Polymer split ⁽¹²⁾	909143	1.8

▲ AGMA maximum bore size

● See page G2-114 for cooling fan dimensions

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

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

(2) See page G2-123 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 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 after market, short shaft mounting.

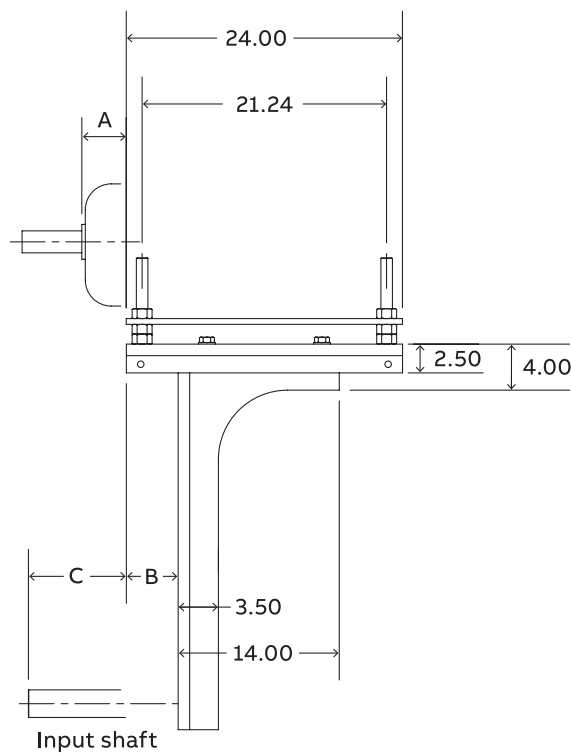
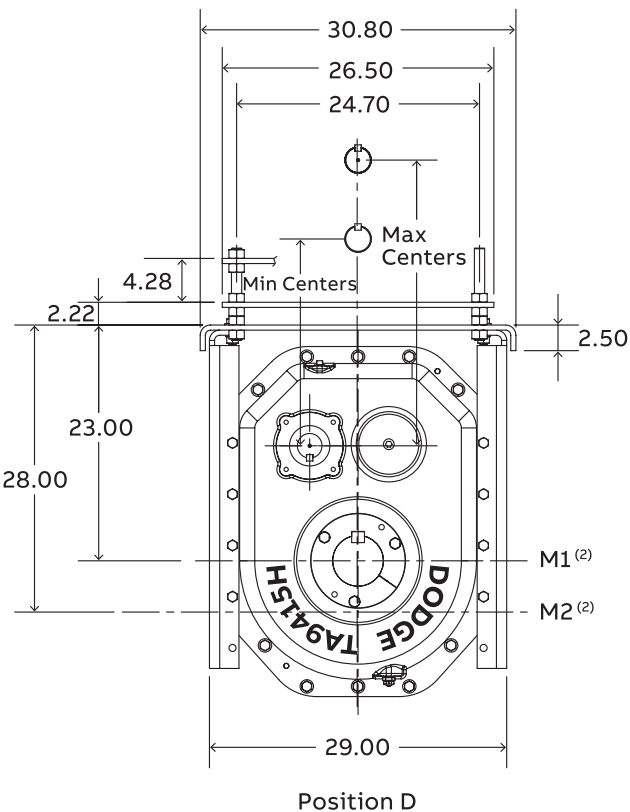
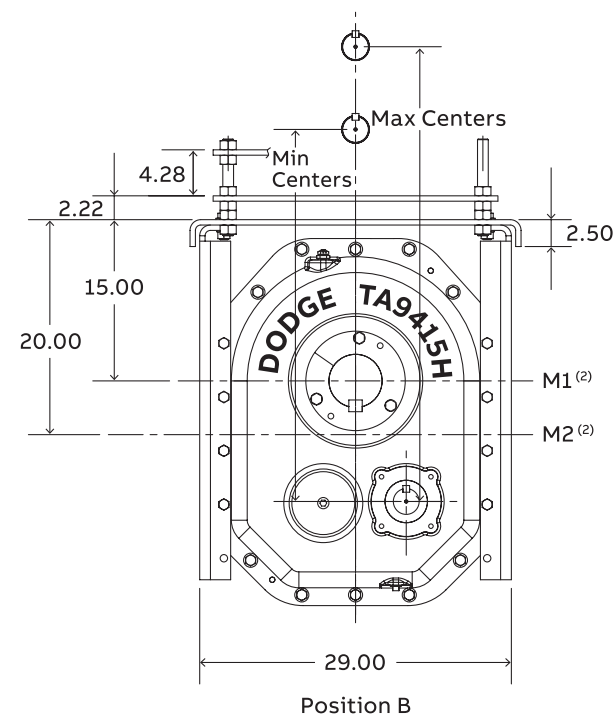
(7) Minimum keyseat and shaft length required to mount reducer with bushing kit

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

(12) ABS Polymer covers are designed with bolts for tapped reducers, non tapped reducers will require self tapping screws and customer modification of reducer
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 & D



TA9415H

Motor mount dimensions – position B & D

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

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

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

TA10507H

Taper bushed reducers – double reductions

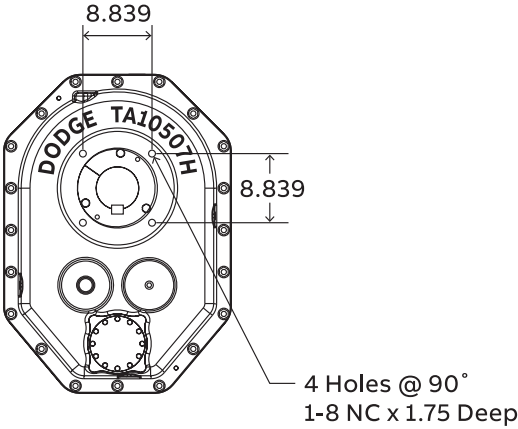
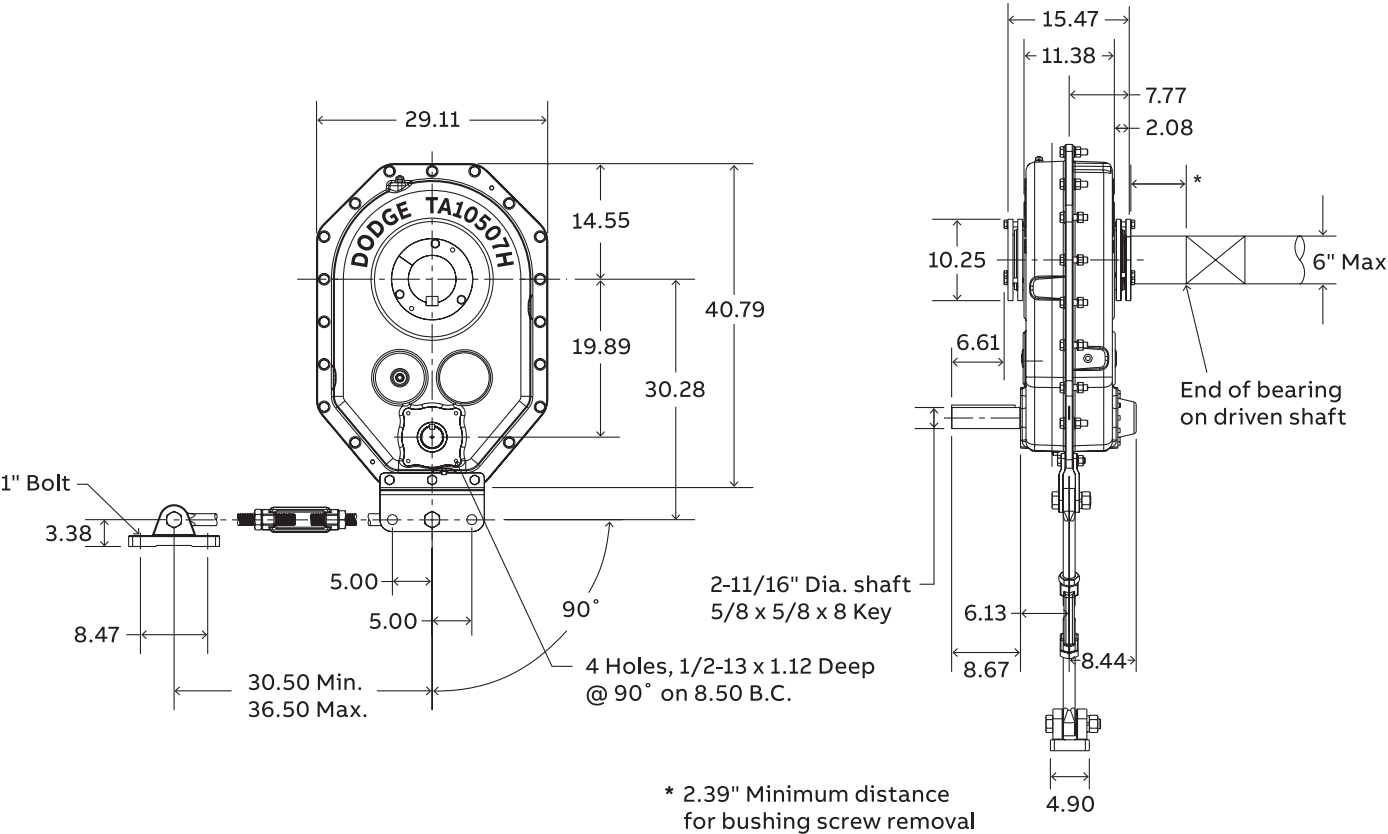
Reference Guide

Motorized Torque-Arm II

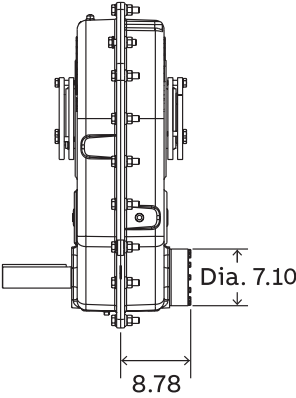
Torque-Arm II

Torque-Arm

Bulk Material Handling



Flange mounting dimensions



Reducer with backstop

TA10507H

Taper bushed reducers – double reductions

TA10507H Taper bushed reducers ⁽¹⁾

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

TA10507H accessories

Description	Part number	Weight lbs.
TA10507RA Rod Assembly ⁽¹⁾ +	910109	87.0
TA10507BS Backstop Assembly (15, 25:1) ⁽²⁾	910102	23.5
TA10507BS 40:1 Backstop Assembly ⁽²⁾	910103	25.0
TA10507MM Motor Mount Assembly (254-445T) ⁽³⁾	910090	286.7
TA10507BG Belt Guard - Pos. B (254-445T)	910096	158.1
TA10507 Belt guard assembly Pos. B M2	910101	218.0
TA10507BG Belt Guard - Pos. D (254-445T)	910099	175.0
TA10507CF Cooling Fan Assembly ●	910106	12.4
TA10-TA12 Hydra-Lock Dessicent Breather Kit HL2	964366	2.0
XT Enclosed Breather System, TA10-2	240051	2.0
TA4-TA12 Vertical Breather Kit	904112	2.0
TA10507H V-Ring Kit	910249	0.8
TA10507H Lube Kit	LUBEKITTA10507	121.5
Dodge OPTIFY sensor	750000	0.5

TA10507H tapered bushing kits ⁽⁴⁾

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Standard shaft bushing kit	(5)		(7) (8)
TA10507TB x 6	910020	40.8	1-1/2 x 3/4 x 15.46
TA10507TB x 5-15/16	910021	43.2	1-1/2 x 3/4 x 15.46
TA10507TB x 5-7/16 ▲	910022	50.0	1-1/4 x 5/8 x 15.46
TA10507TB x 4-15/16	910023	57.8	1-1/4 x 5/8 x 15.46
TA10507TB x 4-7/16	910024	52.8	1 x 1/2 x 15.46
TA10507TB x 4-3/16	910025	65.6	1 x 1/2 x 15.46
TA10507TB x 3-15/16	910026	68.4	1 x 1/2 x 15.46

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Short shaft bushing kit	(6)		(7) (8)
–	–	–	–
–	–	–	–
TA10507TBS x 5-7/16	910027	47.2	1-1/4 x 5/8 x 9.67
TA10507TBS x 4-15/16	910028	66.9	1-1/4 x 5/8 x 9.67
TA10507TBS x 4-7/16	910029	75.7	1 x 1/2 x 9.67
TA10507TBS x 4-3/16	910030	80.5	1 x 1/2 x 9.67
TA10507TBS x 3-15/16	910031	85.2	1 x 1/2 x 9.67

Bushing covers

Reducer size	Description	Part number	Weight
TA10507H	ABS Polymer closed ⁽¹²⁾	910142	3.0
TA10507H	ABS Polymer split ⁽¹²⁾	910143	2.8

▲ AGMA maximum bore size

■ See page G2-114 for cooling fan dimensions

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

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

(2) See page G2-123 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 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 drive shaft in a screw conveyor application

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

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

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

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

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

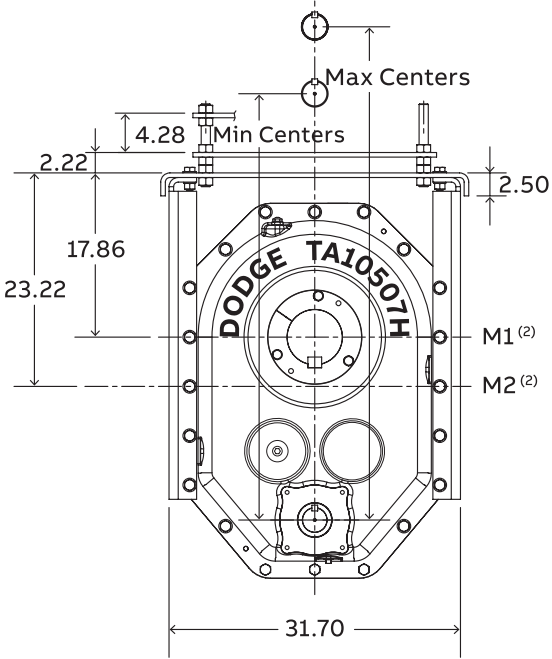
(12) ABS Polymer covers are designed with bolts for tapped reducers, non tapped reducers will require self tapping screws and customer modification of reducer

MTA is drilled and tapped to accept the ABS bushing cover bolts. Aluminum covers require customer fitment to the reducer.

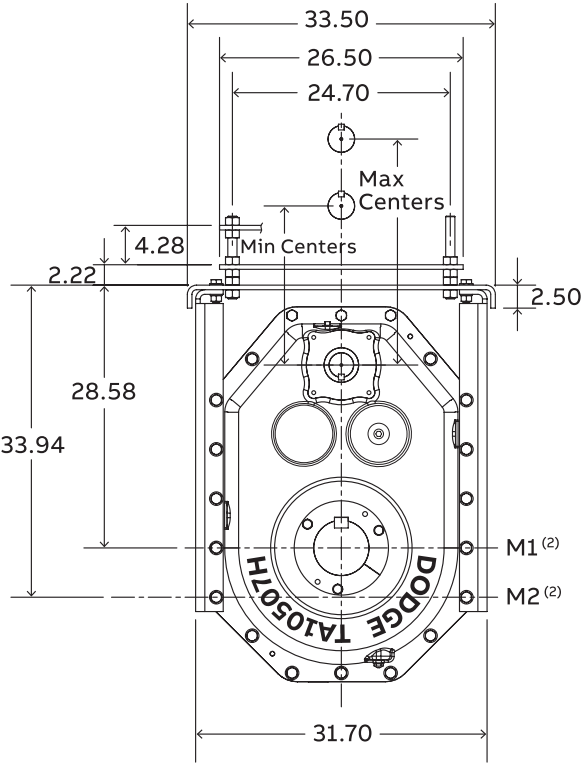
Bushing covers fit both the outboard and inboard side of the MTA reducer.

TA10507H

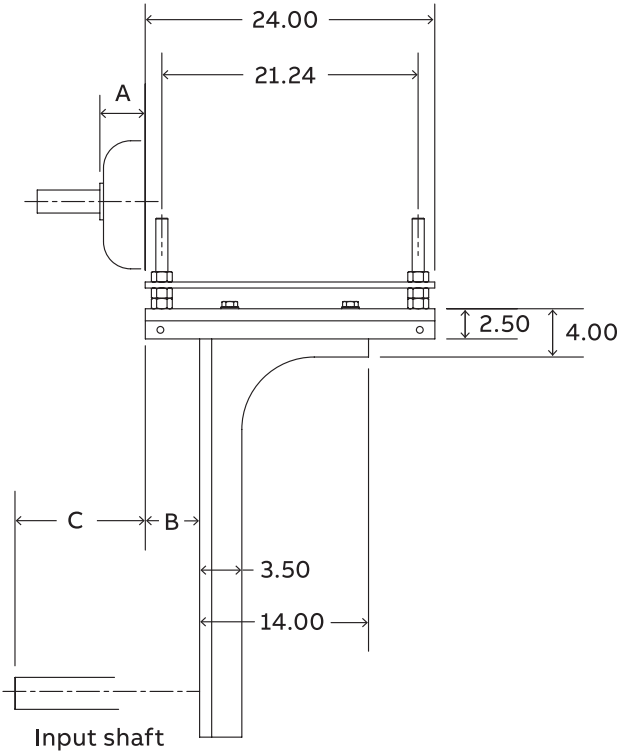
Motor mount dimensions – position B & D



Position B



Position D



All dimensions are in inches.

TA10507H

Motor mount dimensions – position B & D

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

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						364T & 365T		404T & 405T		444T & 445T				
						A	Centers		A	Centers		A	Centers	
	B Min	B Max	C Min	C Max			Min	Max		Min	Max			
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

- (1) Motor Mount will fit NEMA and IEC frame motors; however, motor mount hardware are inch dimensions
- (2) M1, M2, M3 go through output shaft centerline

Notes: Minimum centers contains 0.5" to allow for belt assembly

TA12608H

Taper bushed reducers – double reductions

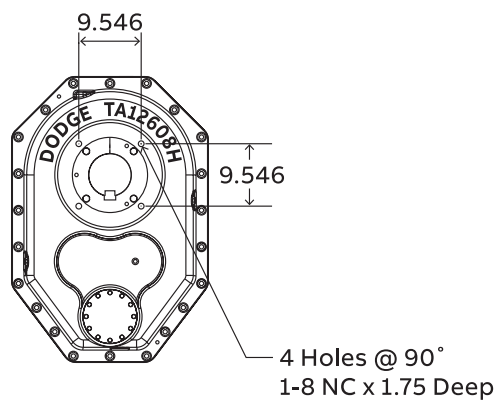
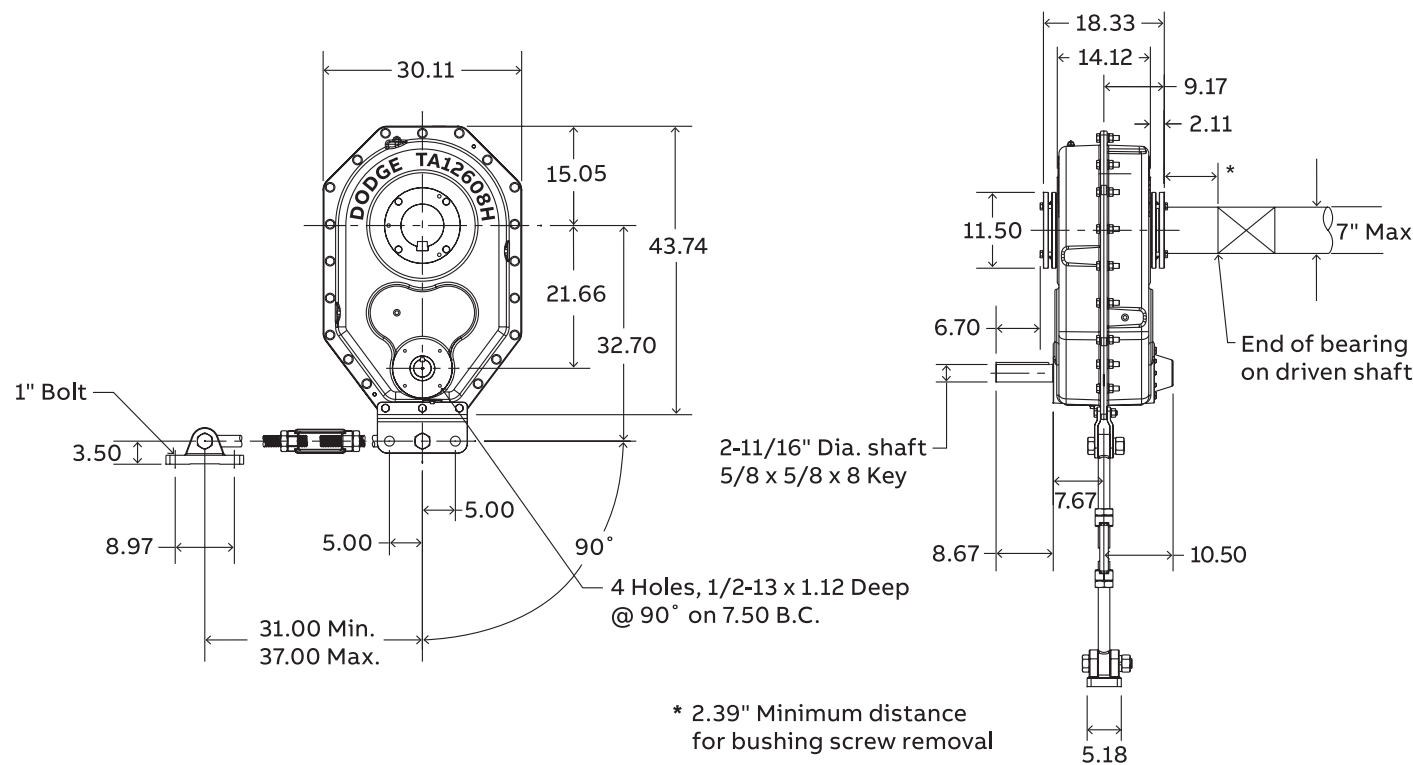
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Motorized Torque-Arm II

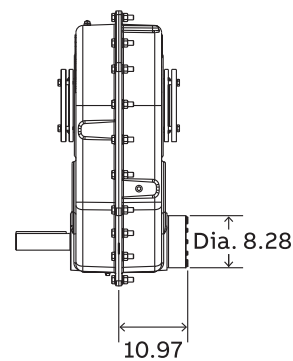
Torque-Arm II

Torque-Arm

Bulk Material Handling



Flange mounting dimensions



Reducer with backstop

TA12608H

Taper bushed reducers – double reductions

TA12608H taper bushed reducers ⁽¹⁾

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

TA12608H accessories

Description	Part number	Weight lbs.
TA12608RA Rod Assembly ⁽¹⁾ +	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
TA12608 Belt guard assembly Pos. B M2	912101	227.0
TA12608BG Belt Guard - Pos. D (254-445T)	912099	181.0
TA12608CF Cooling Fan Assembly ●	912106	13.7
TA10-TA12 Hydra-Lock Dessicant Breather Kit HL2	964366	2.0
XT Enclosed Breather System, TA 10-12	240051	2.0
TA4-TA12 Vertical Breather Kit	904112	2.0
TA12608H V-Ring Kit	912249	0.8
TA12608H Lube Kit	LUBEKITA12608	170.1
Dodge OPTIFY sensor	750000	0.5

TA12608H tapered bushing kits ⁽⁴⁾

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Standard shaft bushing kit	(5)		(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 6	912023	78.1	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
TA12608TB x 4-15/16	912026	94.6	1-1/4 x 5/8 x 18.32

Bushing size	Part number	Weight lbs.	Shaft keyseat required
Short shaft bushing kit	(6)		(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 6	912029	90.5	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
TA12608TBS x 4-15/16	912032	119.3	1-1/4 x 5/8 x 11.60

Bushing covers

Reducer size	Description	Part number	Weight
TA12608H	ABS Polymer closed ⁽¹²⁾	912142	3.0
TA12608H	ABS Polymer split ⁽¹²⁾	912143	2.8

▲ AGMA maximum bore size

■ See page G2-114 for cooling fan dimensions

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

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

(2) See page G2-123 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 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 drive shaft in a screw conveyor application

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

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

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

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

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

(12) ABS Polymer covers are designed with bolts for tapped reducers, non tapped reducers will require self tapping screws and customer modification of reducer

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 & D

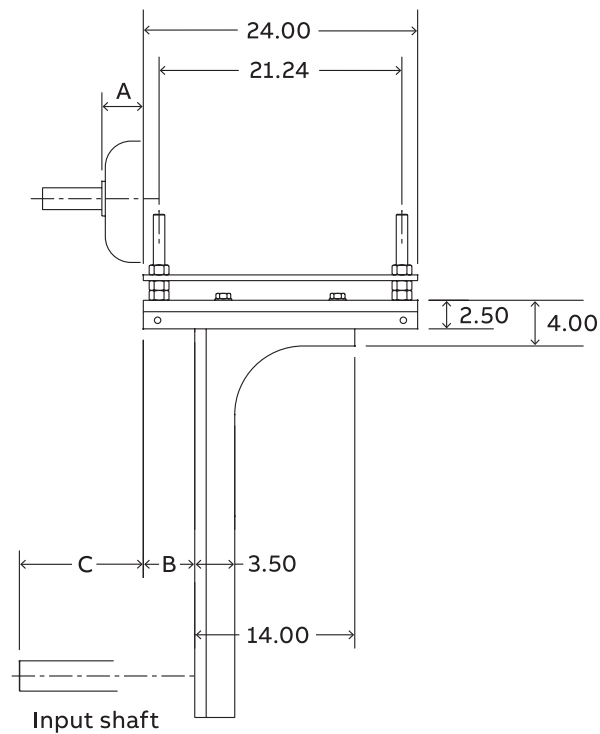
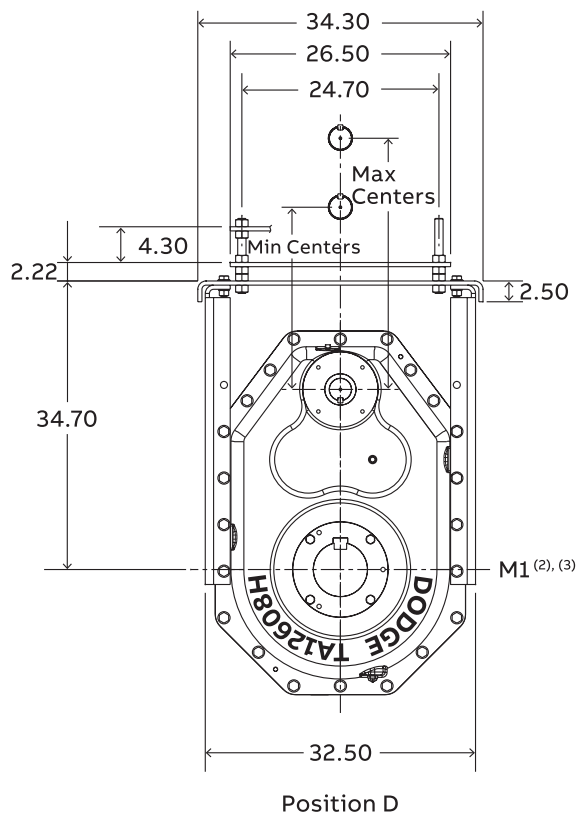
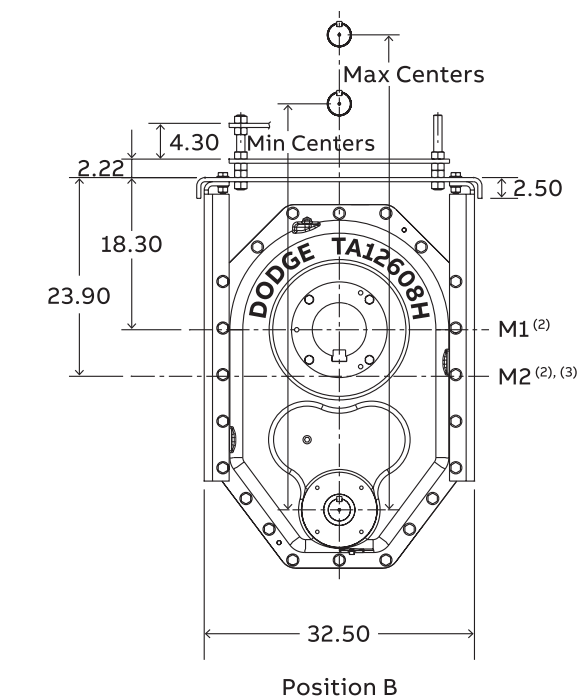
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



TA12608H

Motor mount dimensions – position B & D

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

Mounting	Lateral adjustment				Motor mount height (2)	Motor frame								
						364T & 365T			404T & 405T			444T & 445T		
						A	Centers		A	Centers		A	Centers	
	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

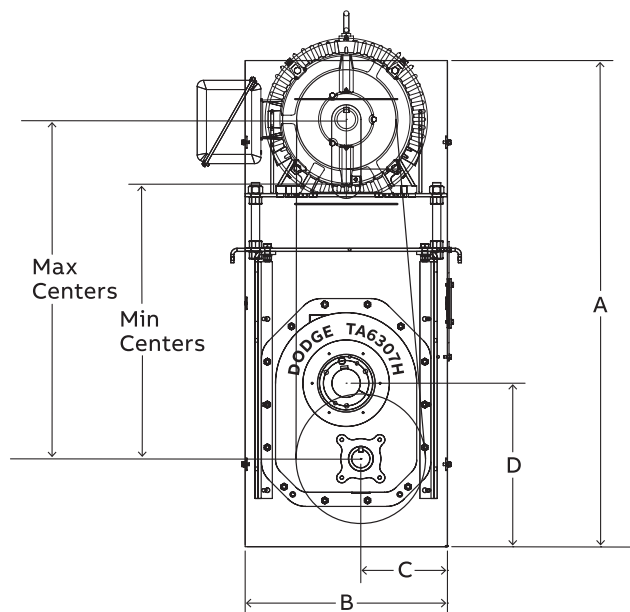
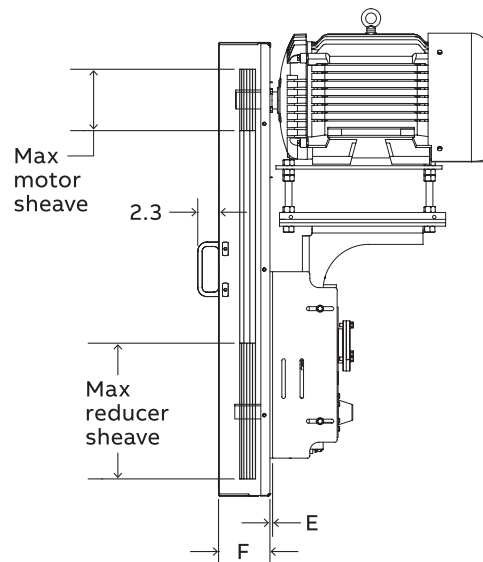
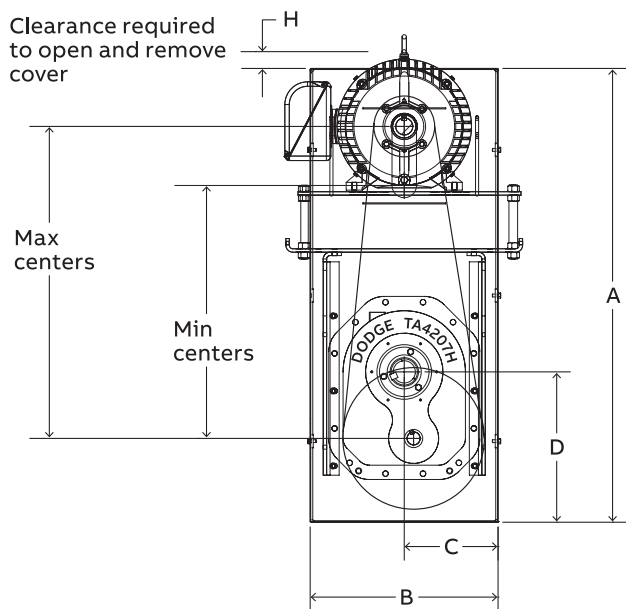
- (1) Motor Mount will fit NEMA and IEC frame motors; however, motor mount hardware are inch dimensions
- (2) M1, M2, M3 go through output shaft centerline

Notes: Minimum centers contains 0.5" to allow for belt assembly

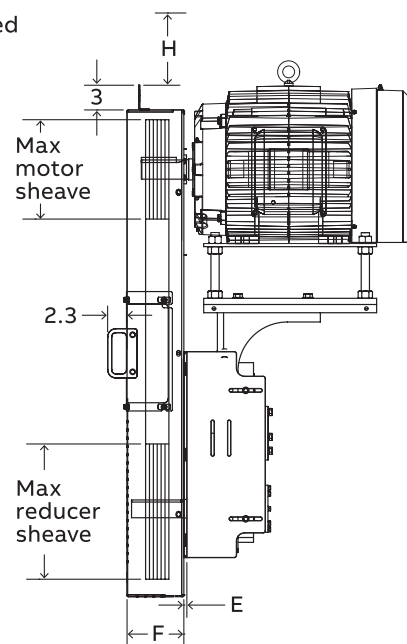
Belt Guard TA0107L – TA12608H

Full featured position B – M2 belt guard dimensions

This belt guard offers enhanced safety and maintenance features.



Clearance required to open and remove cover



Belt Guard TA0107L – TA12608H

Full featured position B – M2 belt guard dimensions

Case size	Mounting position	Centers			Max sheave diameter	A	B	C
		Min	Max	Motor	Reducer			
TA0107L	B	19.6	24.5	11	11.4	38.73	14.85	7.43
		24.6	27	8.5				
TA1107H	B	19.6	25.5	11	11.4	38.73	14.85	7.43
		25.6	27	8.5				
TA2115H	B	19.6	25.5	8.5	13	38.73	14.85	7.43
		25.6	27	11				
TA3203H	B	24.3	30.1	11	17	45.59	19.47	9.72
TA4207H	B	27.8	34.3	11.2	17	49.85	20.64	10.31
TA5215H	B	31.9	38.8	12.5	17	55.36	21.70	10.81
TA6307H	B	33.4	41.2	13	19.9	59.10	24.87	12.40
TA7315H	B	37	44.9	15	25.5	66.70	29.80	18.90
TA8407H	B	37	44.9	15	25.5	66.70	29.80	18.90
TA9415H	B	41.2	48.9	15.5	28	72.43	31.56	19.47
TA10507H	B	59.1	60.6	17	30	89.50	32.50	16.25
		53.8	59	24				
TA12608H	B	59.1	60.6	17	30	89.50	32.50	16.25
		53.8	59	24				

Case size	Mounting position	D	E		F	H	A + Lifting tab	Lifting tab height
			Min	Max				
TA0107L	B	11.64	0.00	1.79	4.28	2.00	–	–
TA1107H	B	11.52	0.03	1.83	4.28	2.00	–	–
TA2115H	B	13.80	0.00	1.45	4.28	2.00	–	–
TA3203H	B	15.26	0.00	2.72	5.65	2.00	–	–
TA4207H	B	16.51	0.00	2.70	5.65	2.00	–	–
TA5215H	B	18.00	0.00	2.60	6.40	2.00	58.63	3.00
TA6307H	B	19.89	0.00	3.55	6.90	2.00	62.10	3.00
TA7315H	B	22.66	0.00	4.53	7.40	2.00	69.70	3.00
TA8407H	B	22.66	0.00	4.24	7.40	2.00	69.70	3.00
TA9415H	B	26.22	0.40	5.00	8.90	2.00	75.43	3.00
TA10507H	B	36.07	0.30	3.86	9.15	2.00	92.50	3.00
TA12608H	B	37.84	0.30	3.86	9.15	2.00	92.50	3.00

(1) G = Maximum sheave face width

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Belt Guard TA0107L – TA12608H

Standard belt guard dimensions

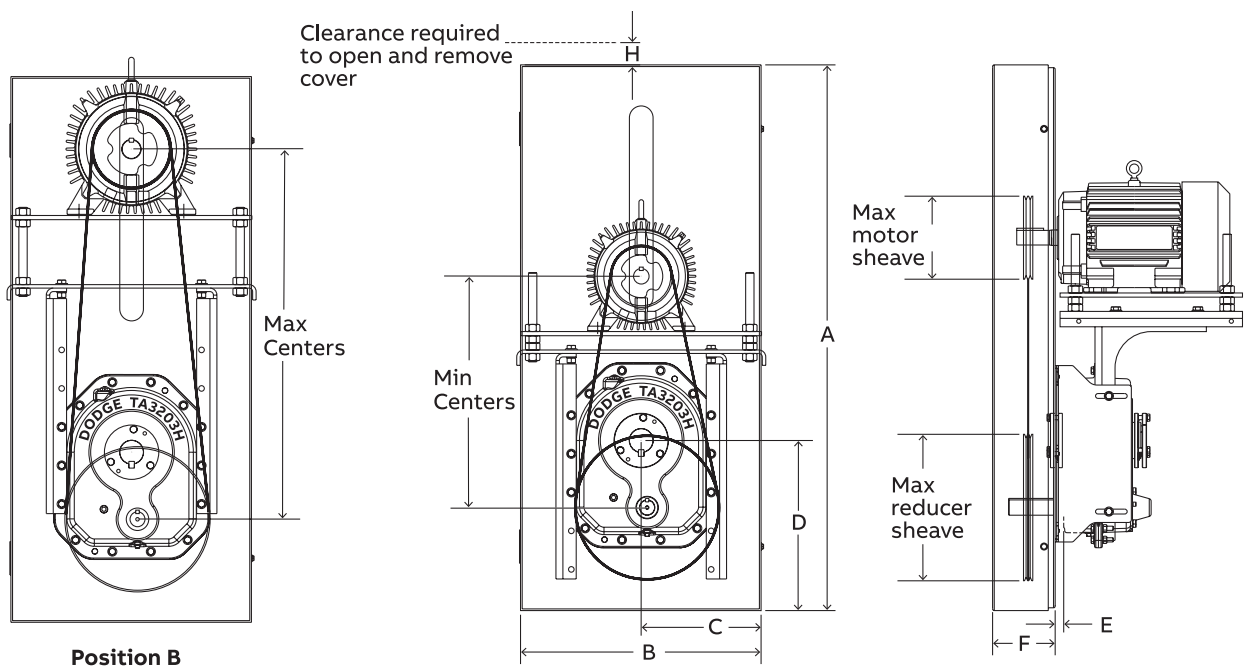
Reference Guide

Motorized Torque-Arm II

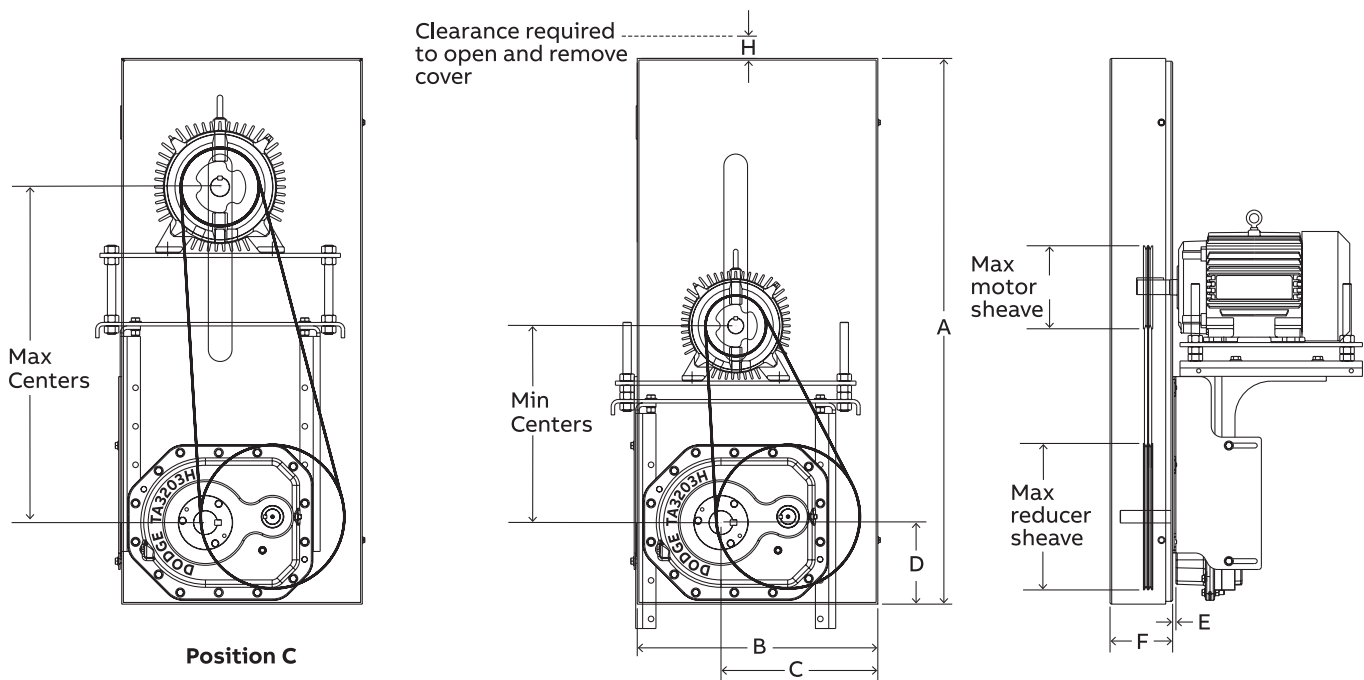
Torque-Arm II

Torque-Arm

Bulk Material Handling



Position B



Position C

Belt Guard TA0107L – TA12608H

Standard belt guard dimensions

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

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

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

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

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

Cooling Fan TA4207H – TA12608H

Dimensions

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

The 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 G2-124 for maximum input shaft speeds.

Figure 1 – Cooling fan assembly

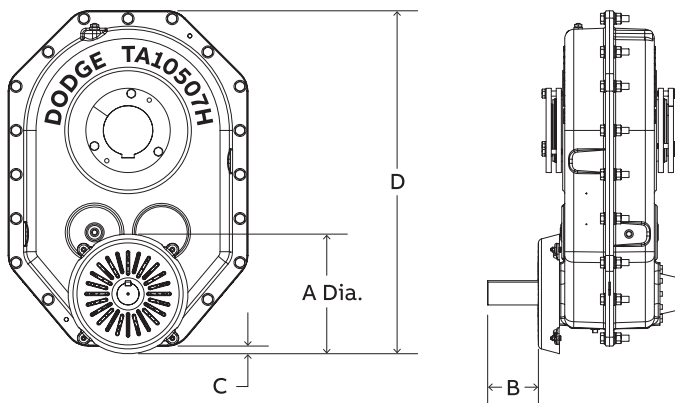


Table 1 - Cooling fan installation dimensions

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

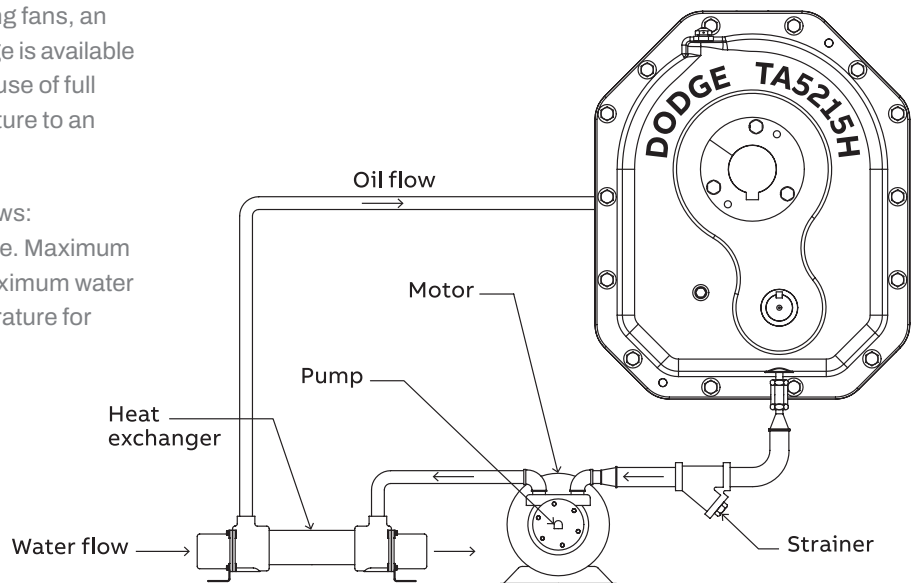
Reducer pump and auxiliary cooling package

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 Hp rating by lowering the oil temperature to an acceptable level.

Specifications for the heat exchanger are as follows:

1/2 Hp, 60 Hz, 3 PH. 230/460 Volt, TEFC, 56 Frame. Maximum coolant (water) flow is 3 G.P.M. based upon a maximum water temperature of 80 degrees F. Minimum oil temperature for operation is 60 degrees F.

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



Related Products

Harsh duty accessories

Shaft mount speed reducers

ABS Polymer bushing covers

Reducer size	Bushing cover part numbers			
	Closed	Weight	Split	Weight
TA0107L	900142	0.3	900143	0.3
TA1107H	901142	0.5	901143	0.4
TA2115H	902142	0.6	902143	0.5
TA3203H	903142	0.6	903143	0.5
TA4207H	904142	1.2	904143	1.0
TA5215H	905142	1.5	905143	1.3
TA6307H	905142	1.5	905143	1.3
TA7315H	907142	1.6	907143	1.5
TA8407H	908142	1.7	908143	1.6
TA9415H	909142	2.0	909143	1.8
TA10507H	910142	3.0	910143	2.8
TA12608H	912142	4.0	912143	3.8

Dimensions

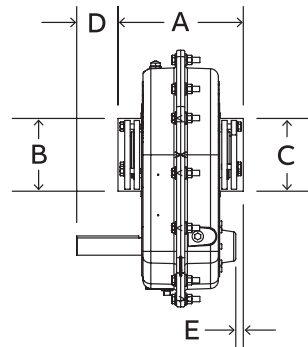
A	B	C	D	E	F
8.01	3.75	3.75	2.02	0.35	0.40
8.20	4.25	4.25	1.89	0.08	-0.10
8.80	4.88	4.88	2.19	0.07	-0.10
10.48	5.56	5.56	2.79	0.48	0.30
10.62	6.11	6.11	2.87	0.47	0.29
11.98	7.00	7.00	3.61	0.90	0.67
12.40	7.00	7.00	4.98	0.80	0.56
13.43	8.50	8.50	4.80	0.12	-0.28
14.50	8.75	8.75	5.26	0.38	0.13
15.42	9.75	9.75	6.25	-0.67	-1.07
17.13	10.75	10.75	6.24	0.13	-0.21
20.00	12.00	12.00	6.34	-0.50	-0.97

Optional V-ring flinger seal kit for harsh duty environments ⁽¹⁾

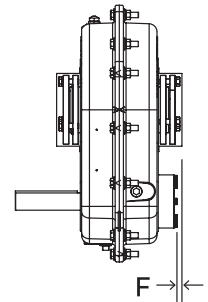
Reducer size	Part number	Weight
TA0107L	900249	0.1
TA1107H	901249	0.1
TA2115H	902249	0.2
TA3203H	903249	0.2
TA4207H	904249	0.3
TA5215H	905249	0.3
TA6307H	906249	0.4
TA7315H	907249	0.4
TA8407H	907249	0.4
TA9415H	909249	0.5
TA10507H	910249	0.8
TA12608H	912249	0.8



ABS covers



Reducer without backstop



Reducer with backstop

Drawing A – end cover



V-ring kit

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

Harsh duty accessories

Shaft mount speed reducers



Hydra-Lock breathers



Enclosed chamber breather



Oil sump heater

Hydra-Lock breather system

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

Enclosed chamber breather

Reducer Size	Part Number
TA0-TA8	240050
TA9-TA12	240051

Oil sump immersion heaters ^{(2) (3)}

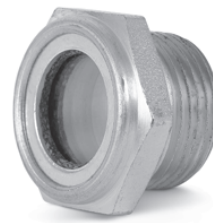
Reducer Size	Part Number
TA0-TA3	Not Available
TA4	241103 (with reducer factory modification)
TA5-TA6	241103
TA7-TA9	241105
TA10-TA12	241105 (with reducer factory modification)

- (2) 110 volt, single phase, AC cartridge heater, threads into special tapped housing hole. Provides for approximately 70 degrees (F) temperature rise in one hour for cold climates. Simple time phased on-off constructions without thermostat.
- (3) All TA II reducers have to be factory modified to allow installation of sump heater. Reducer mounting position will determine modification requirement. Consult Dodge.



TDNC coated tapered bushings (thin dense nickel chrome)

- TDNC coated for maximum corrosion resistance with minimum premium cost adder
- TDNC bushings, backing plates and snap rings
- Corrosion resistant bolts and lock washers



Oil sight glasses



Oil sight tubes

Oil sight glasses

Reducer size	Size	Part Number
TA0-TA3	3/8"	430120
TA4-TA12	3/4"	430159

Oil sight tubes

Reducer size	Size	Part Number
TA0-TA3	3/8"	900110
TA4-TA12	3/4"	904110

Maximum bore straight bore ^{(1) (2) (3)}

Shaft mount speed reducers

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

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

Drawing B – Maximum bore straight bore reducers

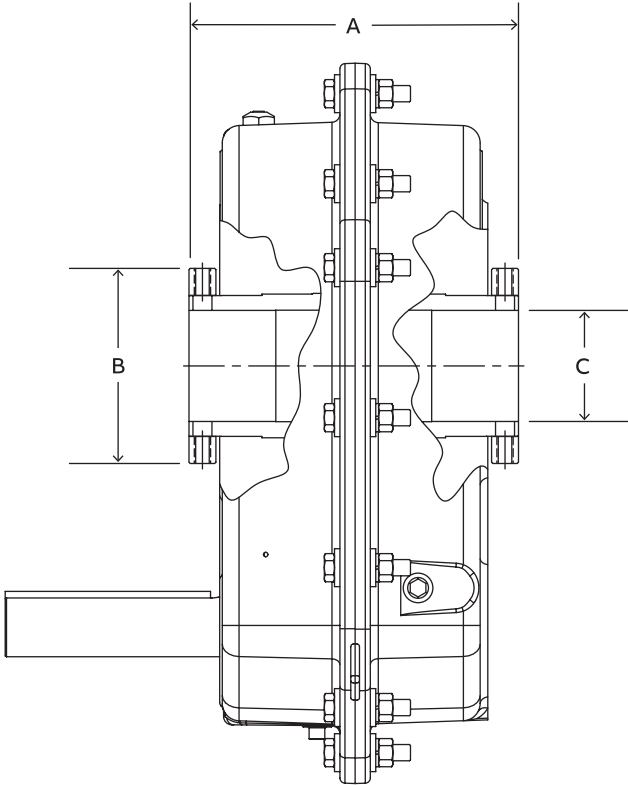


Table 4 ⁽⁴⁾

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

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

Nominal sheave ratios

Dodge Torque-Arm II reducers – 5:1, 9:1, 15:1

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

Note: Speed increase ratios are shown in bold type

Nominal sheave ratios

Dodge Torque-Arm II reducers – 25:1, 31-33:1, 40:1

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

Note: Speed increase ratios are shown in bold type

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Nominal sheave speed (RPM)

Input for Dodge reducers – 1750 motor

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

Renewal parts

Torque-Arm II reducers

Torque-Arm II bearing kits ⁽¹⁾

Size	Ratio	Kit P/N	Size	Ratio	Kit P/N
TA0107L	5:1	900128	TA6307H	5:1	906128
TA0107L	9:1 - 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.

Torque-Arm II Level 1 rebuild kits ⁽³⁾

Size	Ratio	Kit P/N	Size	Ratio	Kit P/N
TA0107L	5:1	900135	TA6307H	5:1	906135
TA0107L	9:1 - 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 & output seals, all bearings, shims and sealant for reducer size and ratio indicated. See Instruction Manual # MN1601 for gearing part numbers.

Torque-Arm II seal kits ⁽²⁾

Size	Ratio	Kit P/N
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 & output seals, backstop cover gasket and RTV sealant for reducer size and ratio indicated

Torque-Arm II complete shim kits ⁽⁴⁾

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

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

Renewal parts

Torque-Arm II reducers



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.

Torque-Arm II lube kits ⁽⁵⁾

Size	Kit P/N
TA0107L	LUBEKITA0107
TA1107H	LUBEKITA1107
TA2115H	LUBEKITA2115
TA3203H	LUBEKITA3203
TA4207H	LUBEKITA4207
TA5215H	LUBEKITA5215
TA6307H	LUBEKITA6307
TA7315H	LUBEKITA7315
TA8407H	LUBEKITA8407
TA9415H	LUBEKITA9415
TA10507H	LUBEKITA10507
TA12608H	LUBEKITA12608

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

Torque-Arm II Level 2 rebuild kits ⁽⁶⁾

Size	Ratio	Kit P/N
TA0107L	5:1	9001355
	9:1	9001369
	15:1	90013615
	25:1	90013625
	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

Size	Ratio	Kit P/N
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.

Engineering and Technical

NEMA motor and Torque-Arm II reducer information, backstop lift-off speed

Table 1: NEMA motor information (1750 RPM)

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

Table 2: Torque-Arm II reducer information

TA II reducer	Ratio	Input shaft diameter	Minimum sheave diameter
TA0107L	All	1"	See Class I, II and III Selection tables, starting on page G-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: Torque-Arm II backstop lift-off speed ⁽¹⁾

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

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

Maximum input and output speeds

Engineering and technical

Maximum input speed - RPM

Case size	Nominal ratio				
	5:1	9:1	15:1	25:1	32:1 & 40:1
TA0107L	2080	1800	1791	2007	1750
TA1107H	2000	1798	1789	2005	1750
TA2115H	2080	1821	1874	2005	1750
TA3203H	1965	1847	1808	1996	1750
TA4207H	2000	1846	1800	2010	1955
TA5215H	2042	1837	1791	2000	1945
TA6307H	1978	1843	1854	1989	1916
TA7315H	2075	1943	1790	1987	1983
TA8407H	N/A	N/A	1814	1997	1983
TA9415H	N/A	N/A	1812	2035	1970
TA10507H	N/A	N/A	1811	2015	1984
TA12608H	N/A	N/A	1775	2002	1909

Maximum output speed - RPM

Case size	Nominal ratio				
	5:1	9:1	15:1	25:1	32:1 & 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	N/A	N/A	120	80	50
TA9415H	N/A	N/A	120	80	50
TA10507H	N/A	N/A	120	80	50
TA12608H	N/A	N/A	120	80	50

Thrust capacity for screw conveyor drives

Engineering and technical

Thrust capacity for screw conveyor drives (pounds)

Case size	Output speed (RPM)						
	Single reduction reducers (5:1)						
	100	150	200	250	300	350	400
TA0107L	2568	2288	2092	2000	1922	1855	1798
TA1107H	3106	2835	2626	2505	2396	2309	2232
TA2115H	5373	4771	4417	4186	4015	3885	3785
TA3203H	6000	5834	5387	5053	4783	4561	4386
TA4207H	6000	6000	6000	6000	6000	5776	5570
TA5215H	6000	6000	6000	6000	6000	6000	6000
TA6307H	6000	5803	5374	5202	4977	4807	4737
TA7315H	†	†	†	†	†	†	†

Thrust capacity for screw conveyor drives (pounds)

Case size	Output speed (RPM)								
	Double reduction reducers (9:1 through 40:1)								
	10	25	50	75	100	125	150	175	200
TA0107L	5300	4028	3141	2730	2465	2281	2165	2071	1989
TA1107H	6000	4833	3705	3196	2865	2639	2568	2438	2315
TA2115H	6000	6000	6000	5323	4850	4550	4295	4086	3924
TA3203H	6000	6000	6000	6000	5761	5328	5020	4813	4636
TA4207H	6000	6000	6000	6000	6000	6000	6000	6000	6000
TA5215H	6000	6000	6000	6000	6000	6000	6000	6000	6000
TA6307H	6000	6000	6000	5885	5185	4706	4435	4303	4269
TA7315H	†	†	†	†	†	†	†	†	†

† Consult Dodge

Lubrication

Engineering and technical



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



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

Lubrication is extremely important for satisfactory operation. The proper oil level as shown on page 128 & 129, showing oil level plug location, must be maintained at all times. Approximate oil quantities are shown on page 130. Frequent inspections with the unit not running and allowing sufficient time for the oil to cool and the entrapped air to settle out of the oil should be made by removing the level plug to see that the level is being maintained. If low, add the proper type and viscosity of lubricant through one of the upper openings until it comes out of the oil level hole. Replace the oil level plug securely. Refer to Tables 1 and 2 for viscosity recommendations.

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



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

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

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

Operating temperatures

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

Lubrication

Engineering and technical

Table 1 – Oil recommendations

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

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

Table 2 – Oil recommendations

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

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

Notes:

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

Installation

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

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

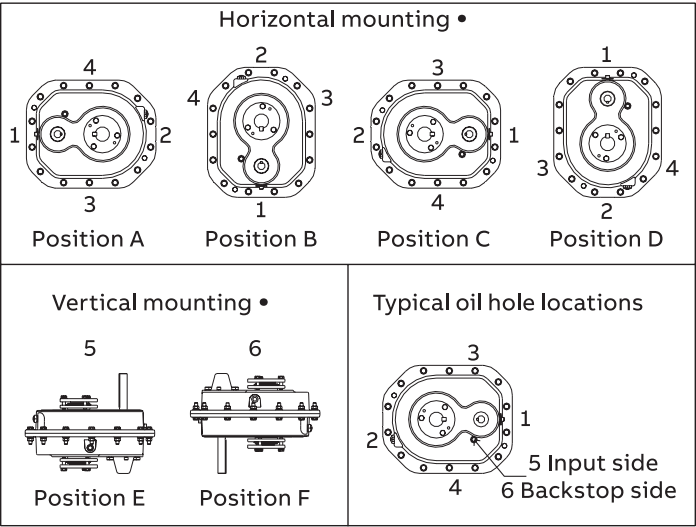
Mounting position – The running position of the reducer in the horizontal application is not limited to the four positions shown in Figure 1. However, if the running position is over 20° off of position “B” or “D” or 5° off of position “A” or “C”, either way from the sketches, the oil level plug cannot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

Lubricant grade equivalents*

ISO	AGMA
150	4
220	5
320	6

* See page G1-135 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.

Lubrication

Engineering and technical

Table 3 - Vent and plug locations (see Figure 1, page G2-130)

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.

Recommended lubricants for Motorized Torque Arm II & Torque-Arm II reducers

Recommended lubricants for Torque-Arm reducers +

Standard oils			EP oils		
EXXON					
150	Teressttic	150	Spartan EP		150
220	Teressttic	220	Spartan EP		220
320	Teressttic	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
UNICAL					
150	Turbine Oil	150	Extra Duty HL Gear Lube		141
220	Turbine Oil	220	Extra Duty HL Gear Lube		207
320	Turbine 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 XMP		150
220	SHC	630	SHC XMP		220
320	SHC	632	SHC XMP		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 R&O	150	Meropa		150
220	Regal Oil R&O	220	Meropa		220
320	Regal Oil R&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 & S3 B	150	Omala S2 G		150
220	Morlina Oil S2 B & S3 B	220	Omala S2 G		220
320	Morlina Oil S2 B & S3 B	320	Omala S2 G		320

For further lubrication information, refer to Dodge Torque-Arm lubrication manual MN1682 or individual product manuals.

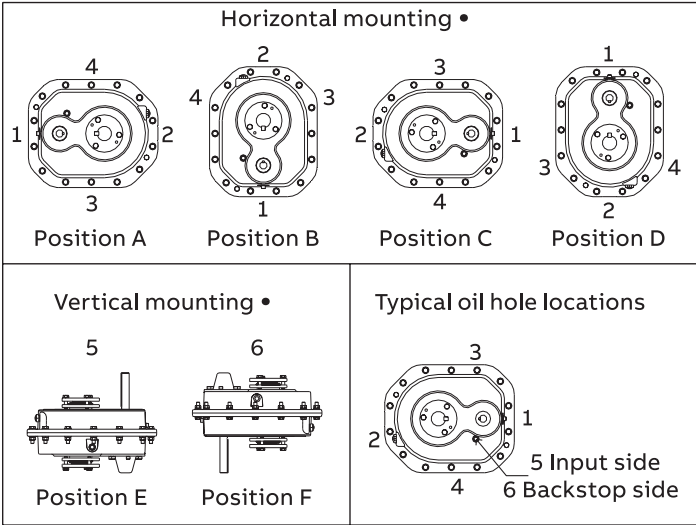
+ Partial list. Consult Dodge, or a lubricant manufacturer and their website, for further options and new revisions in oil nomenclature

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 = .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.

Figure 1

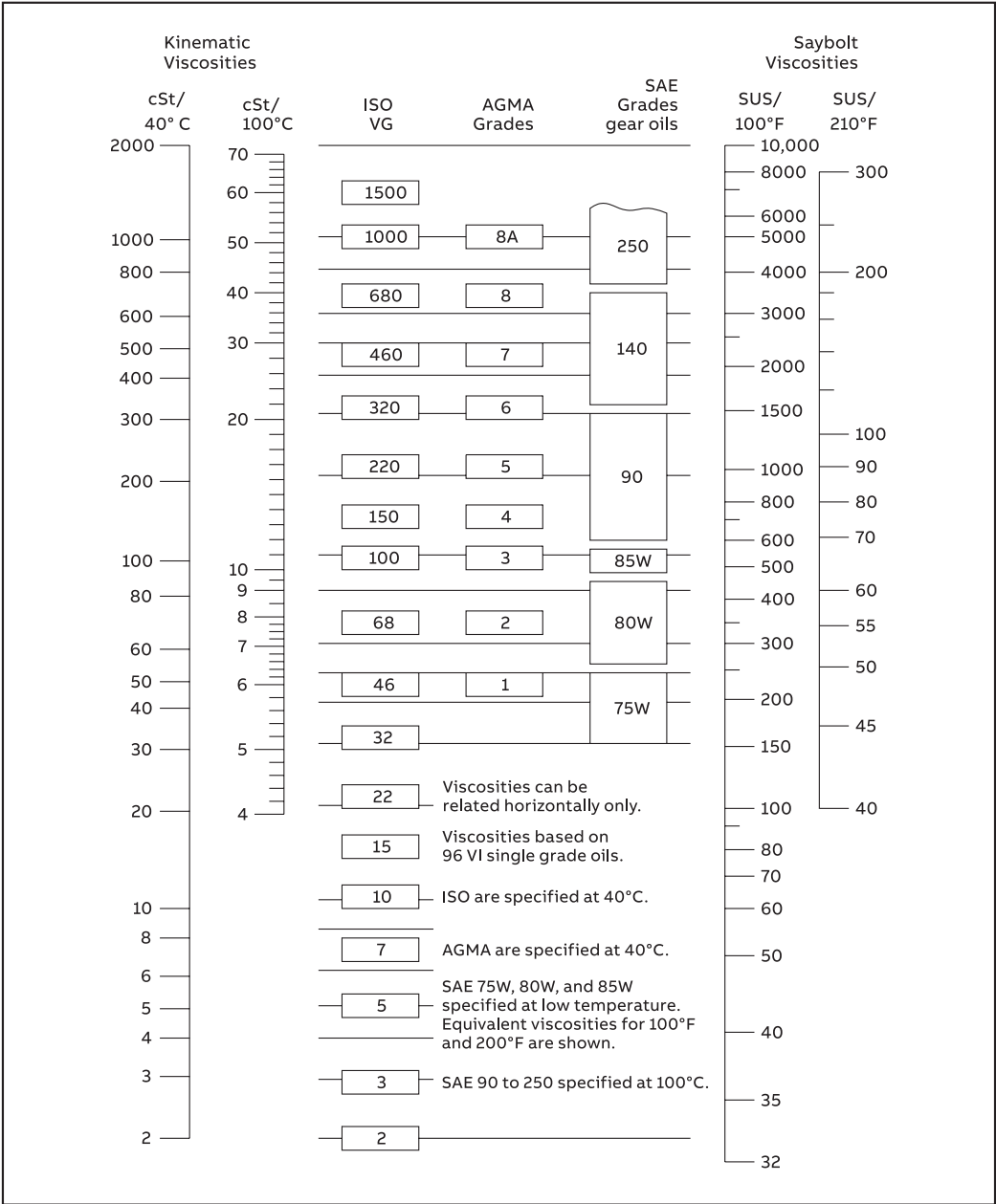


Below 15 RPM output speed, oil level must be adjusted to reach the highest oil level plug. If reducer position is to vary from those shown in Figure 1, either more or less oil may be required. Consult Dodge.

Viscosity classification equivalents

Engineering and technical

Oil viscosity equivalency chart



ISO Viscosity Classification System

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

Rule-of-Thumb

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

$$\text{SUS @ 100°F} \div 5 = \text{cSt @ 40°C}$$

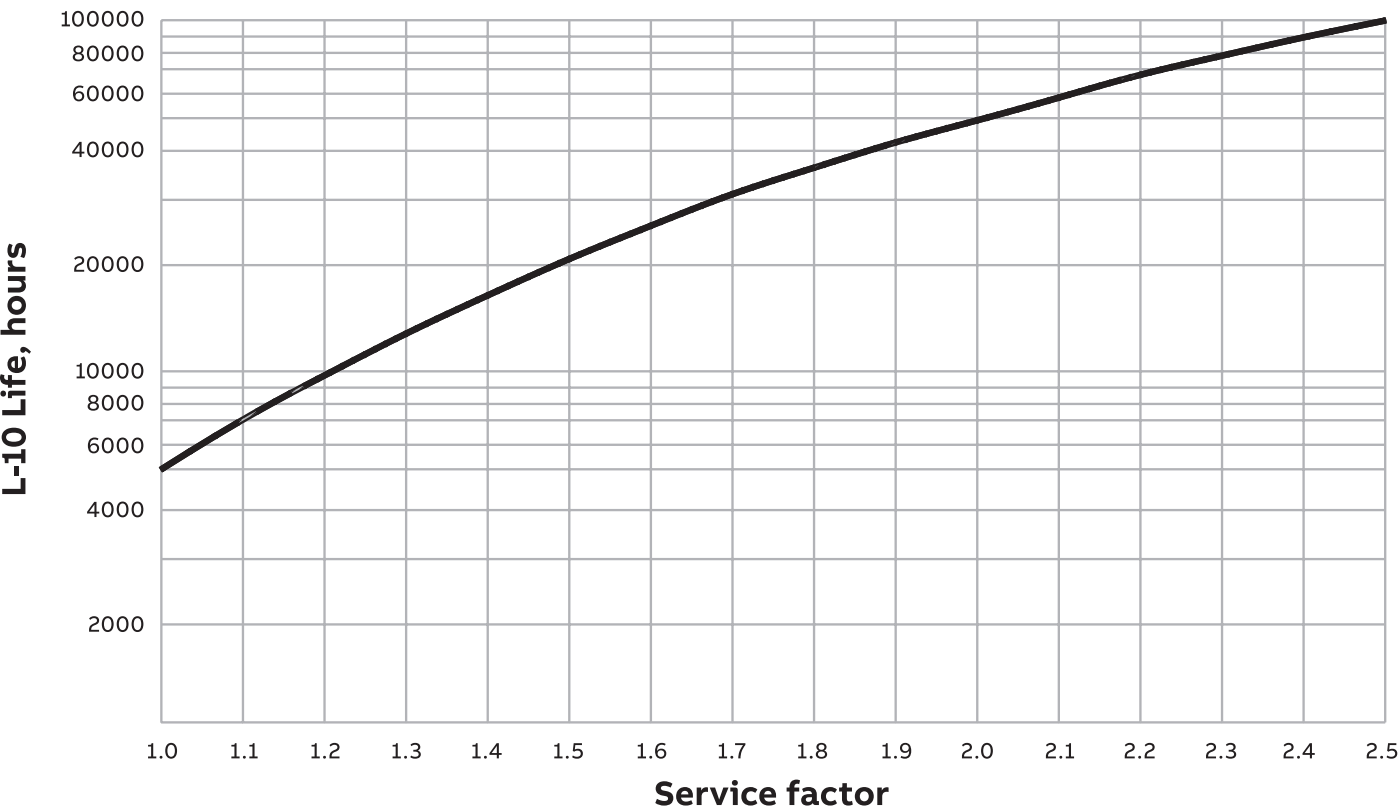
Bearing L-10 life as a function of service factor

AGMA Standard 6009-A00

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

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

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



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

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

Notes

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Torque-Arm

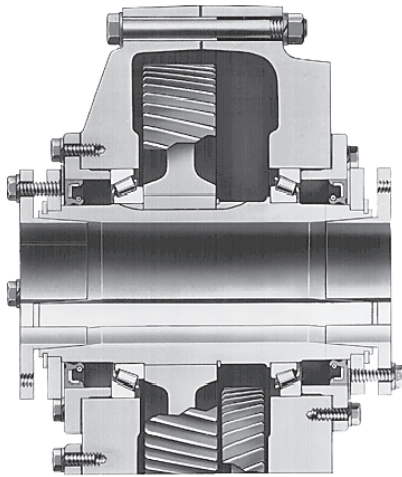
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Features and Benefits

Torque-Arm



Dodge twin tapered bushings

Dodge twin tapered bushings have provided customers over forty years of reliable and proven service. This exclusive feature revolutionized the shaft mount reducer concept and insured that Torque-Arm speed reducers would not seize to the customer's driven shaft.

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

A tapered bore in both sides of the reducer's output hub snugs up against a matching taper on the outer surface of the bushing - "twin tapered".

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

The Dodge Torque-Arm speed reducers surpass all other reducers on the market because of its industry proven design and patented features.

This powerful line of shaft mounted speed reducers – in 14 case sizes through 700 (Hp) – offers unparalleled torque ratings and is quickly becoming the new industry standard.

Improved features and capabilities include:

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

TXT reducers incorporate standard Dodge features

- Ratios up to 210:1.
- Capacities fractional to 700 Hp
- Output speeds through 400 RPM
- Trouble-free maintenance
- Up-front installation savings
- Quality proven design
- Easier, more accurate drive alignment

Rugged, cast iron housing

Cast, corrosion-resistant gray and ductile iron housings are precision machined for positive gear alignment. Rugged housing construction provides strong, rigid support for bearings and gearing.

Efficient helical gear tooth design

produces an efficiency rating of 98.5% per gear set. Gear teeth feature a softer core to resist shock loads, combined with a case carburized surface for maximum wear resistance.

Lip seals

Metal cased lip seals keep lubricating oil in, lock dirt and contaminants out. A garter spring exerts a constant, gentle pressure at every point around the circumference of the shaft to insure a positive seal. All seals ride on precision ground surfaces for maximum life.

Dependable performance

All Dodge Torque-Arm speed reducers are 100% factory noise and leak tested to assure long life and trouble-free service.

Dodge has a Torque-Arm reducer for every application.

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

Features and benefits

Shaft mount speed reducer

Dodge Torque-Arm

1. Precision high quality gearing

- Computer designed helical gears
- 98.5% efficiency per gear stage
- Case carburized for long life
- Strong alloy materials for high load capacity
- Ground gear tooth profile for even load distribution
- Smooth quiet operation with several teeth in mesh
- Designed in conformance with AGMA

2. Maximum capacity housing design

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

3. Reliable anti-friction bearings

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

4. Strong shafts for support

- Precision-machined and hardened for maximum load
- High alloy steel for maximum torsional loads
- Generous size shaft keys for shock loading
- Press or heat-shrunk design for total reliability

5. Harsh duty seals to withstand any environment

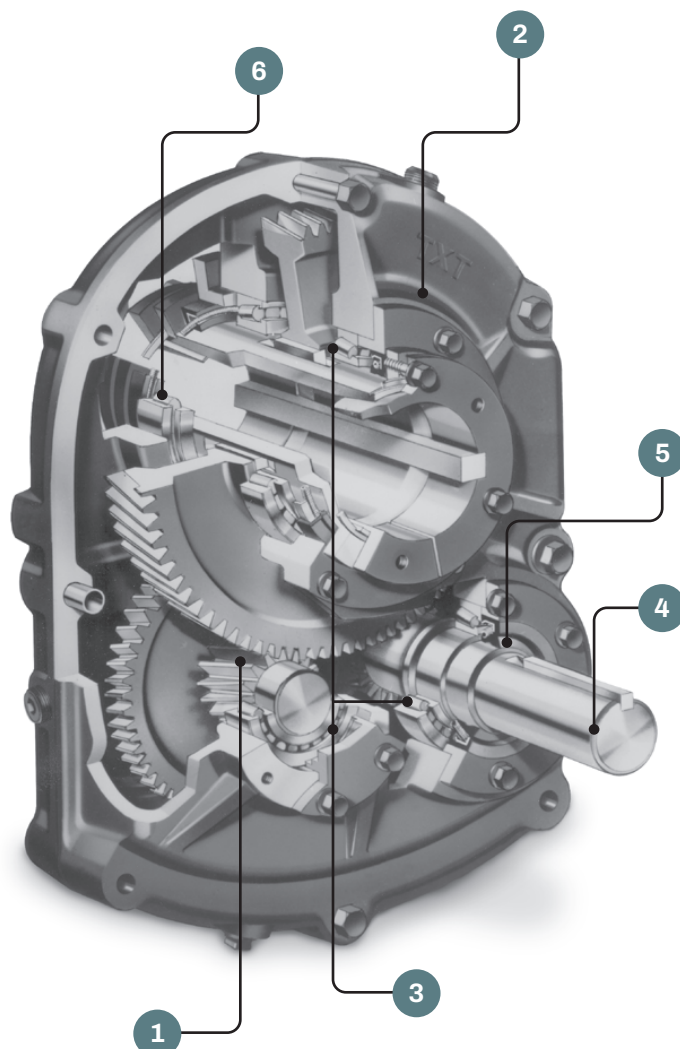
- Lip spring-loaded construction
- Metal reinforcement for strength
- Oil seals have an operating temperature range of -40°F to 300°F / -40°C to 150°C
- Compatible with both mineral and synthetic lubricants
- 100% factory-tested before shipment
- Smooth ground shaft surfaces for maximum life

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
- New breather with baffle and filter
- Magnetic drain plug for protection

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

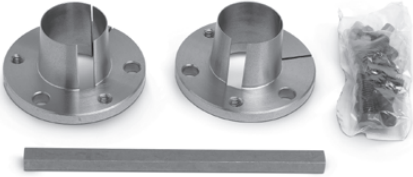
- **Experience** – over 3,000,000 sold
- **Delivery** – over 5,000 reducers and 20,000 accessories in stock
- **Quality** – warranties of less than 1/2% of sales
- **Customer preferred** – proven experience since 1949
- **Twin tapered bushings** – reliable installation and removal
- **Performance capability** – applications through 700 Hp
- **Product configurations** – Torque-Arm, screw conveyor, and Hydroil
- **Accessory package** – motor mount, backstop, bushings and auxiliary seals



Accessories

Features and benefits

Torque-Arm accessories

Accessories	Features	Benefits
Tapered bushing assemblies 	Securely mounts taper bushed reducer to driven shaft • Twin bushings • Full length shaft key • Flanged bushing mount • Removal screws • Fully split bushings • Ductile iron • No setscrews • Clamp fit	• Reliably supports both sides of reducer. • Maximum torque and shock load capability. • Fast & simple installation. • Reliable demount of reducer. • Eliminates fretting and seizing problems. • Strong, shock resistant bushings. • Eliminates driven shaft damage. • Reduces wobble & fits undersized shafts.
Straight bore bushing assemblies 	Accommodate less than maximum bore straight bore reducer applications • Steel or ductile iron • Two bushings • Mount in reducer bore • Original design	• High load capacity. • Locking setscrews on both sides of reducer. • Suitable for shorter driven shafts. • Equivalent to most competitive reducers.
Motor mounts 	Provide a compact and economical method of mounting electric motors on Torque-Arm Reducers • All-steel construction • Compactness • Adjustable top plate • Pre-drilled • Economical • Flexible mounting • Interchangeability	• Rigid motor support. • Eliminates separate motor bases. • Fast & easy belt tensioning. • Accommodates standard NEMA Motors. • Low cost and eliminates alignment problems. • Pre-drilled for belt guard attachment. • Also fits screw conveyor drives.
Auxiliary seal kits 	Provide extra sealing on taper bushed reducers • Labyrinth seals • Economical • Simple installation • Lubrication fittings • Air breather	• Protection from dust, dirt, & moisture. • Low cost reducer protection. • Can be grease purged for protection. • Filtered air breather included.
Backstops 	Prevents reverse of shaft direction • Quick installation • Internally mounted • Oil lubricated • Long life • Keyed to reducer • Reversible	• Fits input shaft of all Torque-Arm reducers • Sealed inside reducer for protection. • No external relubrication required. • Case hardened, shock resistant sprags. • High load capacity. • Suitable for either direction of rotation.
Torque-Arm Belt guards 	Enclose and protect belt drive • Slotted metal panel construction • Yellow paint • Mounting hardware • Assembles to reducer and motor mount holes • Flexibility	• Light weight, ventilated • Meets safety requirements • Quick easy assembly • No machining needed • One size fits most common sheave diameters • Some sizes have optional long belt guards to accommodate longer v-belt centers

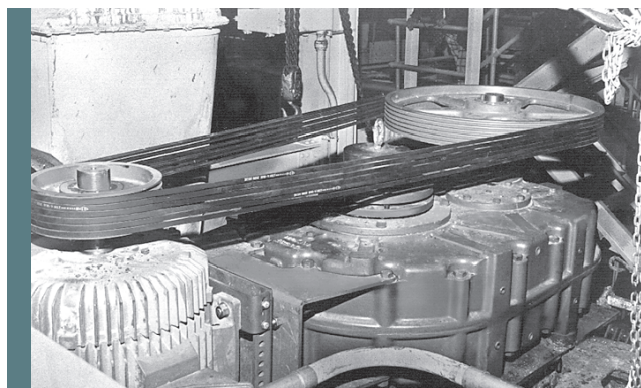
Application flexibility

Features and benefits

Vertical shaft application

Dodge Torque-Arm

twin tapered bushed vertical speed reducer



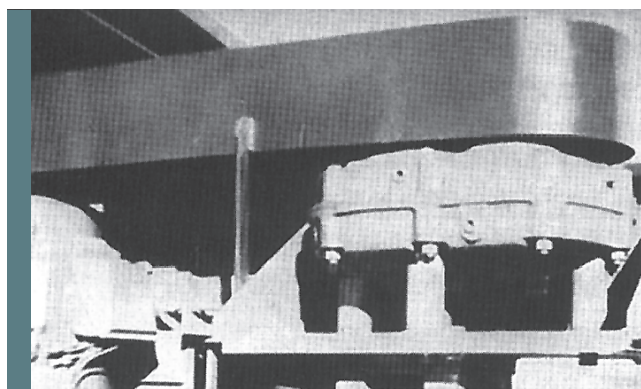
TDT1530T

Application: 200 Hp, Class III service on vertical shaft mixer application. This TDT 1530 vertical tapered bushed speed reducer with shock absorbing DYNA-V belt drive package replaced an expensive, hard-to-replace, open gear drive system. Torque-Arm reducers can mount in many positions, such as vertical shaft applications simply by repositioning the breather and drain plug for lubrication purposes. Another standard feature of compact and highly efficient Torque-Arm reducers.

Flange mounted application

Dodge Torque-Arm flange mounted vertical

twin tapered bushed speed reducer



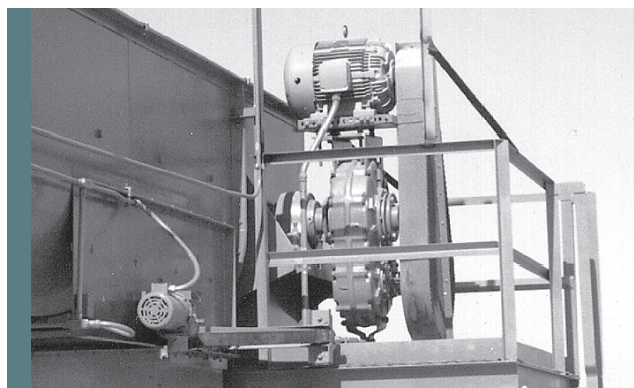
TDT625T

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

Horizontal shaft application

Standard Dodge Torque-Arm

twin tapered bushed speed reducer



TXT725T X 3-15/16"

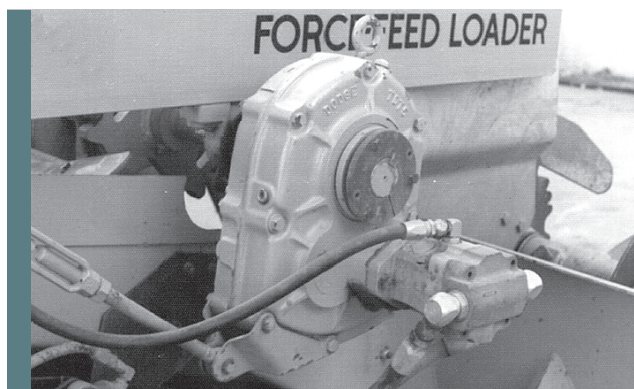
Application: 40 Hp drive, Class II service, on main conveyor drive. Standard Tapered

Bushed TXT 725 x 3-15/ 16" speed reducer package offers long life and dependability. Other user benefits on this horizontal shaft application include compactness, off-the-shelf components, flexible motor mount arrangement, and reliable easy-on, easy-off tapered bushings. The lowest cost installed system for moving bulk materials.

Hydraulic reducer application

Dodge Hydroil Torque-Arm

twin tapered bushed speed reducer

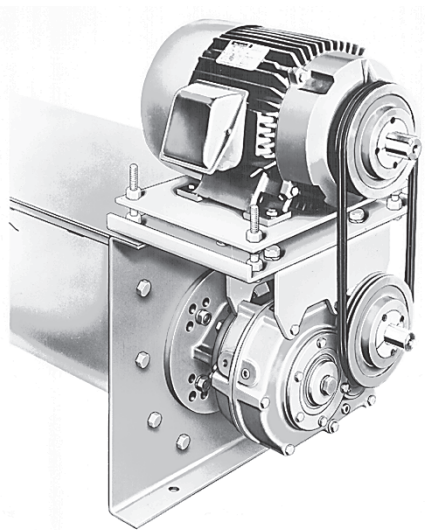
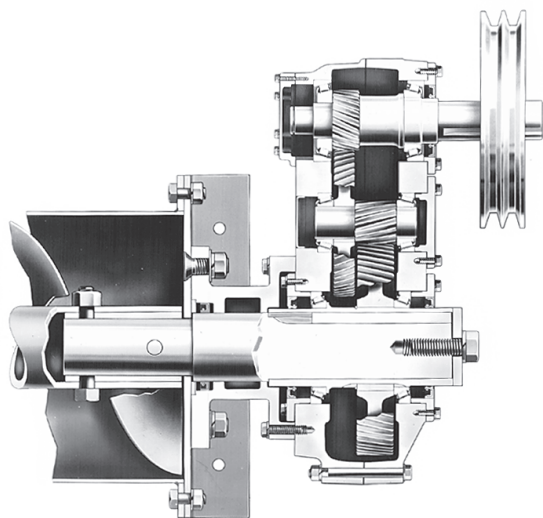


HXT525T with B30 motor

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

Screw conveyor drives

Features and benefits



Dodge quality designed with the screw conveyor industry in mind

The dependable Dodge screw conveyor drives provide a rugged, competitively priced, application-engineered drive for standard CEMA screw conveyors. And the screw conveyor drive

incorporates the proven reliability you have come to expect from the Dodge Torque-Arm reducer line.

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

Dodge screw conveyor drives are available in 5:1, 9:1, 15:1 and 25:1 ratios and the durable drives include:

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

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

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

Note: Guards have been removed for photographic purposes

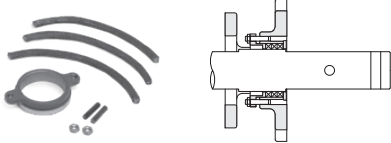
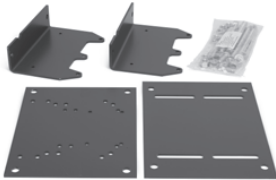
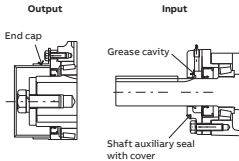
Typical industry applications

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

Screw conveyor drives

Features and benefits

Torque-Arm accessories

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 & 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 Torque-Arm 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 & 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 Dodge screw conveyor drives are available for SCXT Sizes 1-7 speed reducers. Each kit contains an input shaft auxiliary seal with cover and output shaft end cap.	• Protection from dust, dirt, & moisture • Low cost reducer protection • Can be grease purged for protection • Filtered air breather included
Driveshaft 	Driveshaft Transmits final torque to screw CEMA drive shafts offer easy installation and maintenance. This means increased production, less down-time and substantial cost savings. You can save even more because of convenience and interchangeability. Wide range of diameters from 1-1/2 to 3-7/16 inches to choose from.	• Easy installation and maintenance • Different diameters for each size reducer • Stainless steel available • Three-hole CEMA drive shafts available
Torque-Arm belt guards 	Enclose and protect belt drive A slotted metal panel style belt guard with mounting straps for SCXT Reducers will fit standard M series motor mounts. The belt guards are designed to fit most common sheave diameters. They mount easily with no machining required.	• Light weight, ventilated • Meets safety requirements • Highly visible yellow paint • Quick easy assembly • No machining needed • One size fits most common sheave diameters • Some sizes have optional long belt guards to accommodate longer v-belt centers

Hydroil™ Drives

Features and benefits



Hydraulically powered Torque-Arm speed reducers with infinitely adjustable speed and torque.

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

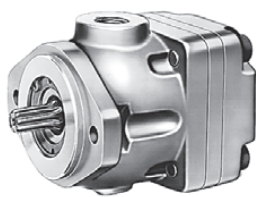
A Hydraulic motor powers the Hydroil reducer, greatly expanding its scope of application and versatility. It has proven to be popular for locations remote from the prime mover where shafts or belt and chain drives are impractical or where electric motors are not available. Exceptional flexibility is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

Users can provide flexible control of the Hydroil drive by selecting proper auxiliary equipment. Output speeds of the

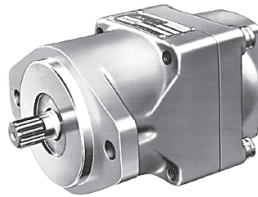
reducer are infinitely adjustable through the use of regulating valves in the hydraulic circuit. Both speed and torque can be adjusted to meet the requirements of the driven machine which can be inched or jogged. The direction of rotation is reversible.

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

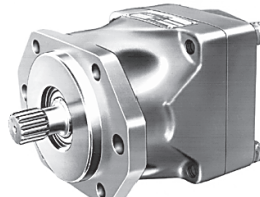
Hydroil vane motors are a superior single stage vane type fluid motor. A series of internal ports admit oil to and carry it from the power element. Complete hydraulic balance of the assembly contributes to the mechanical efficiency and long life of these motors as well as to their unusually quiet operation.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



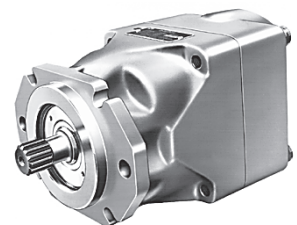
Hydroil vane motor
A10 and A20



Hydroil vane motor
B30



Hydroil vane motor
B40



Hydroil vane motor
B50

Specifications

Torque-Arm shaft mount speed reducers

Torque-Arm speed reducers

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

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

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

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

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

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

Screw conveyor drives

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

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

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

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

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

Hydroil drives

The speed reducer shall be a hydraulically powered enclosed shaft mount type unit with a single or double reduction ratio. The reducer shall mount directly on the driven shaft and utilize an adjustable torque arm that attaches from the gear case to the support structure or foundation.

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

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

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

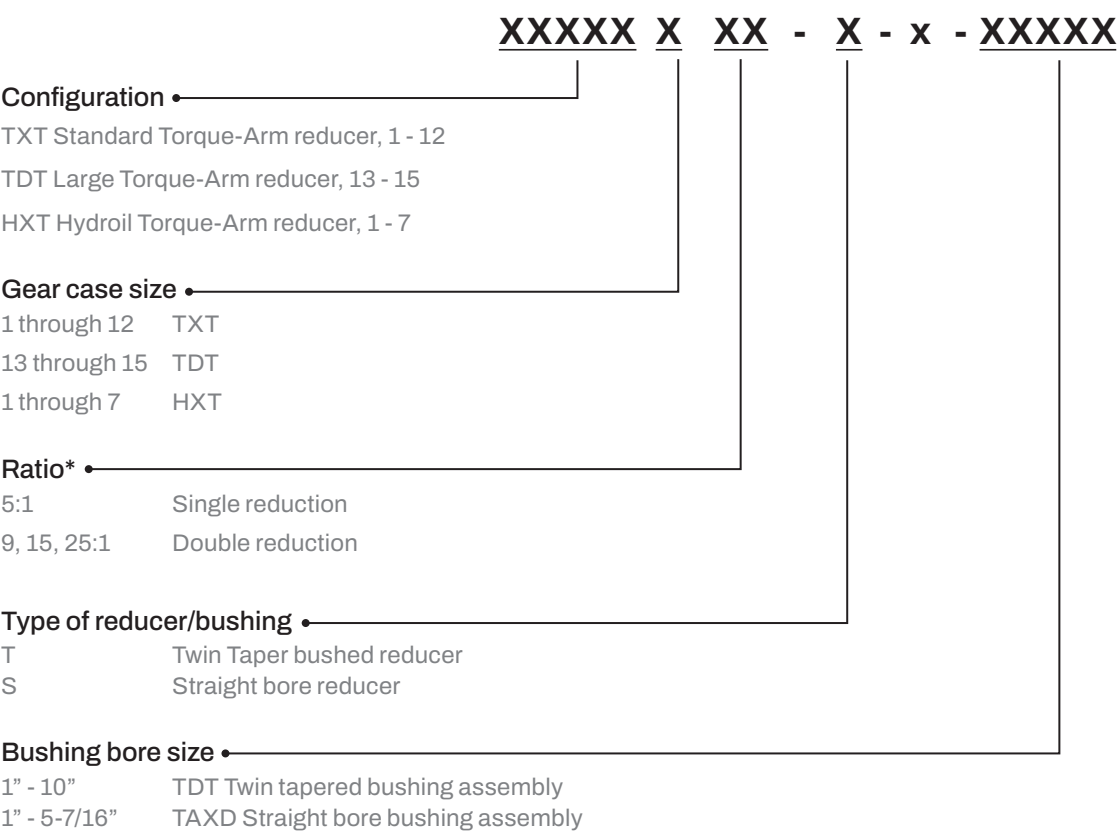
Reducer bearings shall be of the ball or tapered roller type and provide a 25,000 hour minimum average life, 5,000 L-10 AGMA Class I standard.

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

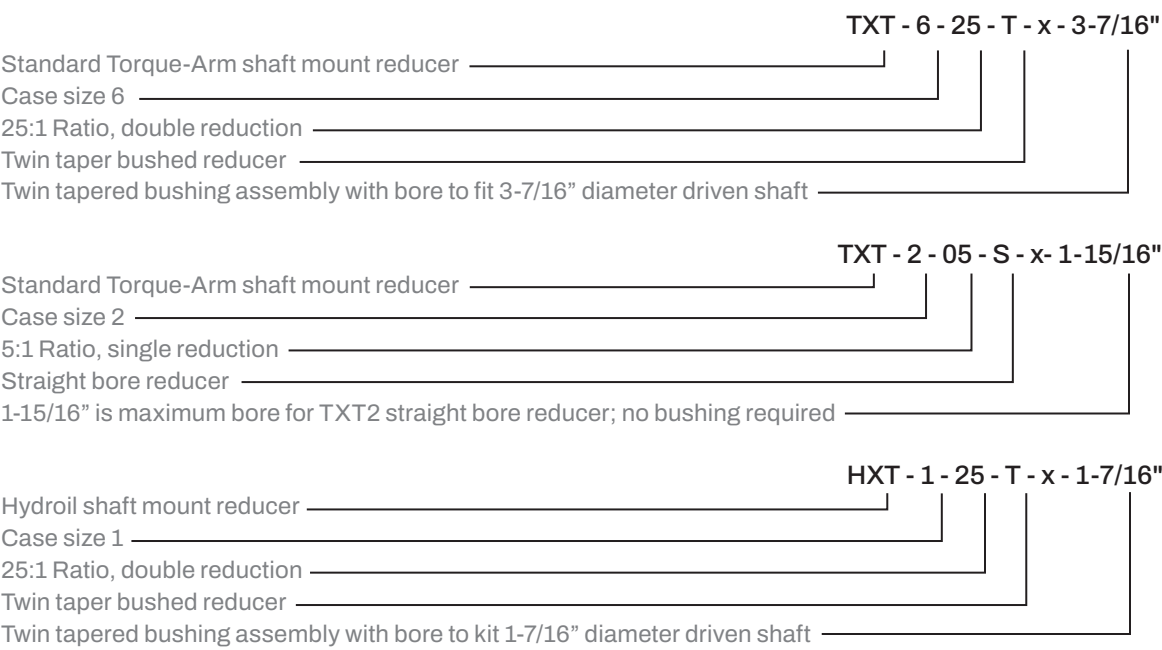
Reducer installation shall be accomplished by using ductile iron, fully split, two bushing system. Reducer removal shall be accomplished by providing jack screw holes in the bushing flanges to mechanically remove the tapered assembly.

Nomenclature

Torque-Arm shaft mount speed reducers



Nomenclature example: Torque-Arm reducers



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

Nomenclature

Torque-Arm shaft mount speed reducers (cont.)

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

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

Configuration

SCXT Screw conveyor drive reducer

HSCXT Hydroil screw conveyor drive reducer

Gear Case Size

1 through 7 SCXT

1 through 7 HSCXT

Ratio*

5:1 Single reduction

9, 15, 25:1 Double reduction

Motor mount

M Standard motor mount for 6" - 20" screw

ML Long motor mount for 24" screw

Adapter Style

C Standard CEMA 4-bolt adapter

AC Adjustable backing kit

CEMA Standard drive shaft diameter

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

Nomenclature example: Screw conveyor drive reducers

Torque-Arm

Bulk Material Handling

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

Screw conveyor drive reducer

Case Size 7

25:1 Ration, double reduction

3-7/16" diameter drive shaft

Standard CEMA 4-bolt adapter

Long motor mount for 24" screw

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

Screw conveyor drive reducer

Case size 5

25:1 Ratio, double reduction

2-7/16" diameter drive shaft

Standard CEMA 4-bolt adapter

Standard motor mount for 12" screw

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

Hydroil screw conveyor drive reducer

Case – Size 2

5:1 Ratio, single reduction

C Adapter with adjustable packing kit

1-1/2" Diameter drive shaft

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

Selection

Torque-Arm shaft mount speed reducers

When to use easy selection

The easy selection tables for TXT Shaft Mount reducers are for electric motor selections up to 700 horsepower with output speeds up to 400 RPM, using AGMA recommended application class numbers. For extreme shock or high energy loads which must be absorbed, as when stalling; for power source other than an electric motor; or for extreme ambient temperatures, or oversized equipment, consult Dodge Application Engineering, (864) 284-5700.

How to select

Step 1: Determine class of service

See “Application Classification” table, page G1-7, to determine load classification for applications under normal conditions. Find the type application and duty cycle that most closely matches your specific application.

Class I - Steady load not exceeding motor Hp rating and light shock loads during 10 hours a day. Moderate shock loads are allowable if operation is intermittent.

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

Class II - Steady load not exceeding motor Hp rating for over 10 hours a day. Moderate shock loads are allowable during 10 hours a day.

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

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

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

Step 2: Determine reducer size

See the easy selection tables, pages G3-17 through G3-22. 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 G3-169 for maximum input and output speeds.

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

All Dodge Torque-Arm Taper Bushed reducers require bushings. Refer to reducer pages for available bushings. If the driven shaft is larger than the bore of the selected reducer, the shaft must be machined to the proper size, or select a larger reducer. Check driven shaft and key for strength.

Step 4: Check dimensions

See “Selection and Dimensions” section, pages G3-24 through G3-61 for reducer dimensions, weights and part numbers. See “Engineering and Technical” section, page G3-162 for reducer mounting positions. For optional Torque-Arm rod mounting positions, see page G3-166.

Step 5: Select a belt drive arrangement

From the Sheave Ratio table, pages G3-154 through G3-156, 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 G3-62. 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 G3-62 through G3-71, for description, dimensions, weights, and part numbers for accessories available for the Torque-Arm reducer selected:

- Motor mounts
- Backstop assemblies
- Belt guards
- Cooling fans
- Auxiliary seal kits
- Filter breathers
- Auxiliary end covers

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

Selection guide: TXT

Torque-Arm shaft mount speed reducers

Examples: Easy selection method

TXT Torque-Arm reducers

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

Step 1: Determine class of service

From "Application Classification" table, page G1-7, 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 G3-19, find the column for 10 Hp and read down to 70 RPM. A TXT425 reducer is the correct selection.

Step 3: Compare hollow shaft bore of TXT425 with the application driven shaft diameter.

Per page G3-37, 2-7/16" is the maximum bore available for this size reducer, so it will work in this application. Be sure to check driven shaft and key for strength.

Step 4: Check dimensions and weights

See "Selection and Dimensions" section, for reducer dimensions, weights, part numbers and other pertinent drive dimensions. See "Engineering and Technical" section, for information on mounting positions.

Step 5: Select a belt drive arrangement

From the sheave ratio table on page G3-156, 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 G3-62.

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

for Torque-Arm shaft mount speed reducers

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

Name _____ Company name _____
Phone no. _____ Fax no. _____

Application data

Type of driven equipment _____
Hours of service per day _____ Class of service _____
Type of load Uniform _____ Moderate _____ Shock _____
Motor type Hp _____ RPM _____ Frame size _____ Shaft size _____
RPM of driven equipment _____ Driven shaft size _____
Type of reducer mounting Horizontal _____ Vertical: Input up _____
Input down _____ Incline (degree of) _____ Flange _____
Unusual ambient temperature _____
Other pertinent application characteristics (i.e., dusty environment, reversing duty, start/stop cycles, etc.) _____

Reducer drive selection

Step 1 – Determine class of service _____

Step 2 – From appropriate service class table, select reducer size and ration that meets application Hp and driven RPM requirements:

Twin taper bushed _____ Straight bore _____

Step 3 – Select reducer accessories required for application backstop

Motor mount Standard _____ Long _____ Bottom _____

Belt guard Standard _____ Long _____ Cooling fan _____

Auxiliary seal kit _____

Other _____

Belt drive specification

Service factor _____ Belt drive ratio needed _____

Belt center distance _____ Type of belt desired _____

Driver: Shaft diameter _____ Driven Shaft diameter _____

Sheave _____ Sheave _____

Bushing _____ Bushing _____

Belts Size _____ Quantity _____

Application Classification, Class and Breather Technology

Selection

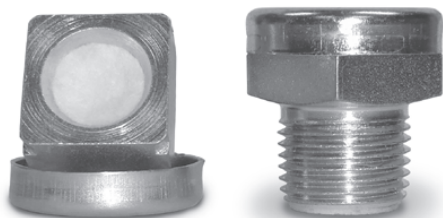
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



Torque-Arm family breather technology

1. Standard breather is a filter breather

Cotton filter media

Screen to support filter

Chamber to allow oil to collect and return to reducer

Non captured filter (should not clog and block air exit)



2. Hydra-Lock desiccant breather

Built in standpipe

3 micron filter media top and bottom

Desiccant material changes color from blue (good) to pink (replace)

Check valve system, so breather is only open to atmosphere under pressure or vacuum.

Closed when not running.



3. Fully enclosed canister breather

Allows no outside air

Excellent protections for extreme wet environments

Class I

TXT Torque-Arm shaft mount reducers

Class I - 1.0 service factor

Hp	Output RPM	Reducer selection		
		Single	Double	
1/4	4-70	–	TXT125A	TXT115A
	71-85	–	TXT115A	TXT125A
	86-115	–	TXT115A	TXT109A
	116-140	TXT105	TXT109A	TXT115A
	141-200	TXT105	TXT109A	
	201-400	TXT105	–	–
1/3	5-70	–	TXT125A	TXT115A
	71-85	–	TXT115A	TXT125A
	86-115	–	TXT115A	TXT109A
	116-140	TXT105	TXT109A	TXT115A
	141-200	TXT105	TXT109A	
	201-400	TXT105	–	–
1/2	4-6	–	TXT225A	
	7-70	–	TXT125A	TXT115A
	71-85	–	TXT115A	TXT125A
	86-115	–	TXT115A	TXT109A
	116-140	TXT105	TXT109A	TXT115A
	141-200	TXT105	TXT109A	
3/4	201-400	TXT105	–	–
	4-5	–	TXT325B	
	6-10	–	TXT225A	
	11-70	–	TXT125A	TXT115A
	71-85	–	TXT115A	TXT125A
	86-115	–	TXT115A	TXT109A
1	116-140	TXT105	TXT109A	TXT115A
	141-200	TXT105	TXT109A	
	201-400	TXT105	–	–
	4-5	–	TXT425B	
	6-7	–	TXT325B	
	8-15	–	TXT225A	
1-1/2	16-70	–	TXT125A	TXT115A
	71-85	–	TXT115A	TXT125A
	86-115	–	TXT115A	TXT109A
	116-140	TXT105	TXT109A	TXT115A
	141-200	TXT105	TXT109A	
	201-400	TXT105	–	–
2	4	–	TXT525C	
	5-7	–	TXT425B	
	8-12	–	TXT325B	
	13-23	–	TXT225A	
	24-70	–	TXT125A	TXT115A
	71-85	–	TXT115A	TXT125A
2-1/2	86-115	–	TXT115A	TXT109A
	116-140	TXT105	TXT109A	TXT115A
	141-200	TXT105	TXT109A	
	201-400	TXT105	–	–
	4-6	–	TXT825A	
	7-9	–	TXT725A	
3	10-15	–	TXT625A	
	16-26	–	TXT525C	
	27-40	–	TXT425B	TXT415B
	41-70	–	TXT325B	TXT315B
	71-74	–	TXT315B	TXT325B
	75-85	–	TXT215A	TXT225A
3-1/2	86-95	–	TXT215A	TXT209A
	96-140	TXT205	TXT209A	TXT215A
	141-200	TXT205	TXT209A	
	201-231	TXT205	–	–
	232-400	TXT105	–	–
4	4-6	–	TXT525C	
	7-10	–	TXT425B	
	11-17	–	TXT325B	
	18-32	–	TXT225A	TXT215A
	33-70	–	TXT125A	TXT115A
	71-85	–	TXT115A	TXT125A
5	86-115	–	TXT115A	TXT109A
	116-140	TXT105	TXT109A	TXT115A
	141-200	TXT105	TXT109A	
	201-400	TXT105	–	–
	4-5	–	TXT625A	
	6-10	–	TXT525C	
6	11-15	–	TXT425B	
	16-26	–	TXT325B	
	27-51	–	TXT225A	TXT215A
	52-70	–	TXT125A	TXT115A
	71-85	–	TXT115A	TXT125A
	86-115	–	TXT115A	TXT109A
7	116-140	TXT105	TXT109A	TXT115A
	141-200	TXT105	TXT109A	
	201-400	TXT105	–	–
	5-6	–	TXT725A	
	7-9	–	TXT625A	
	10-17	–	TXT525C	
8	18-26	–	TXT425B	TXT415B
	27-46	–	TXT325B	TXT315B
	47-70	–	TXT225A	TXT215A
	71-85	–	TXT215A	TXT225A
	86-92	–	TXT109A	TXT215A
	93-115	–	TXT115A	TXT109A
9	116-119	–	TXT109A	TXT115A
	120-140	TXT105	TXT109A	TXT115A
	141-200	TXT105	TXT109A	
	201-400	TXT105		–
	4-6	–	TXT825A	
	7-9	–	TXT725A	
10	10-15	–	TXT625A	
	16-26	–	TXT525C	
	27-40	–	TXT425B	TXT415B
	41-70	–	TXT325B	TXT315B
	71-74	–	TXT315B	TXT325B
	75-85	–	TXT215A	TXT225A
11	86-95	–	TXT215A	TXT209A
	96-140	TXT205	TXT209A	TXT215A
	141-200	TXT205	TXT209A	
	201-231	TXT205	–	–
	232-400	TXT105	–	–
12	4-6	–	TXT926A	
	6-8	–	TXT825A	
	9-12	–	TXT725A	
	13-20	–	TXT625A	
	21-36	–	TXT525C	TXT515C
	37-56	–	TXT425B	TXT415B
13	57-70	–	TXT325B	TXT315B
	71-85	–	TXT315B	TXT325B
	86-103	–	TXT315B	TXT309B
	104-115	–	TXT215A	TXT209A
	116-140	TXT305A	TXT215A	
	141-158	TXT305A	TXT309B	
14	159-200	TXT305A	TXT309B	
	201-400	TXT205	–	–
	5-6	–	TXT1024A	
	7-8	–	TXT926A	
	9-13	–	TXT825A	
	14-19	–	TXT725A	
15	20-32	–	TXT625A	TXT615A
	33-56	–	TXT525C	TXT515C
	57-70	–	TXT425B	TXT415B
	71-85	–	TXT415B	TXT425B
	86-93	–	TXT415B	TXT409B
	94-115	–	TXT309B +	TXT315B
16	116-140	TXT405A	TXT315B	TXT309B +
	141-145	TXT405A	TXT309B +	
	146-200	TXT305A	TXT309B +	
	201-400	TXT305A	–	
	4-6	–	TXT1225	
	7-8	–	TXT1024A	
17	9-12	–	TXT926A	
	13-18	–	TXT825A	
	19-26	–	TXT725A	TXT715A
	27-45	–	TXT625A	TXT615A
	46-70	–	TXT525C	TXT515C
	71-78	–	TXT515C	TXT525C
18	79-85	–	TXT415B	TXT425B
	86-115	–	TXT415B	TXT409B +
	116-140	TXT405A	TXT409B +	TXT415B +
	141-200	TXT405A	TXT309B +	
	201-241	TXT405A		–
	242-400	TXT305A +	–	–

~ See page G3-162 for lubrication for 15 RPM and slower

+ Fan cooling required – see page G3-71

* Heat exchanger required – see page G3-71

Class I

TXT Torque-Arm shaft mount reducers

Class I - 1.0 service factor

Hp	Output RPM	Reducer selection	
		Single	Double
25	5-7	–	TXT1225
	8-10	–	TXT1024A
	11-15	–	TXT926A
	16-23	–	TXT825A
	24-33	–	TXT725A TXT715A
	34-59	–	TXT625A TXT615A
	60-70	–	TXT525C + TXT515C +
	71-80	–	TXT515C + TXT525C +
	81-101	–	TXT515C + TXT509C +
	102-132	TXT505A	TXT415B + TXT409B +
	133-140	TXT505A	TXT409B + TXT415B +
	141-163	TXT505A	TXT409B +
	164-200	TXT405A +	TXT409B +
	201-400	TXT405A +	– –
30	4-5	–	TDT1425
	6-9	–	TXT1225
	10-13	–	TXT1024A
	14-19	–	TXT926A
	20-28	–	TXT825A TXT815A
	29-41	–	TXT725A TXT715A
	42-70	–	TXT625A TXT615A
	71-75	–	TXT615A TXT625A
	76-115	–	TXT515C + TXT509C +
	116-125	TXT605	TXT509C + TXT515C +
	126-131	TXT605	TXT409B +
	132-200	TXT505A	TXT409B +
	201-215	TXT505A +	–
	216-400	TXT405A +	– –
40	5-6	–	TDT1425
	7	–	TDT1325
	8-12	–	TXT1225
	13-18	–	TXT1024A
	19-25	–	TXT926A TXT915A
	26-38	–	TXT825A TXT815A
	39-57	–	TXT725A TXT715A
	58-70	–	TXT625A TXT615A
	71-81	–	TXT615A + TXT625A +
	82-114	TXT605	TXT615A + TXT609A +
	115-125	TXT605	TXT515C + TXT509C +
	126-200	TXT605	TXT509C +
	201-241	TXT605	– –
	242-400	TXT505A +	– –

Hp	Output RPM	Reducer selection	
		Single	Double
50	3-5	–	TDT1530
	6-8	–	TDT1425
	9	–	TDT1325
	10-15	–	TXT1225
	16-22	–	TXT1024A
	23-32	–	TXT926A TXT915A
	33-49	–	TXT825A TXT815A
	50-70	–	TXT725A TXT715A
	71-74	–	TXT715A TXT725A
	75-125	–	TXT615A + TXT709A +
	126-163	TXT605 +	TXT709A +
	164-200	TXT605 +	TXT609A +
	201-400	TXT605 +	– –
60	4-6	–	TDT1530
	7-11	–	TDT1425
	12	–	TDT1325
	13-18	–	TXT1225
	19-27	–	TXT1024A TXT1015A
	28-39	–	TXT926A TXT915A
	40-60	–	TXT825A TXT815A
	61-70	–	TXT725A + TXT715A +
	71-120	–	TXT715A + TXT709A +
	121-131	TXT705	TXT709A +
	132-200	TXT605 +	TXT709A +
	201-400	TXT605 +	– –
75	5-8	–	TDT1530
	9-13	–	TDT1425
	14-15	–	TDT1325
	16-23	–	TXT1225
	24-34	–	TXT1024A TXT1015A
	35-50	–	TXT926A TXT915A
	cont. 51-70	–	TXT825A TXT815A
	71-78	–	TXT815A +
	79-120	–	TXT715A + TXT709A +
	121-200	TXT705	TXT709A +
	201-210	TXT705	– –
	211-400	TXT605 +	– –
100	6-11	–	TDT1530
	12-17	–	TDT1425
	18-22	–	TDT1325
	23-31	–	TXT1225 TXT1215
	32-46	–	TXT1024A TXT1015A
	47-69	–	TXT926A + TXT915A +
	70-120	–	TXT815A +
	121-123	TXT805 +	TXT709A +
	124-200	TXT705 +	TXT709A +
	201-400	TXT705 +	– –

Hp	Output RPM	Reducer selection		
		Single	Double	
125	8-14	–	TDT1530	
	15-22	–	TDT1425	
	23-29	–	TDT1325	
	30-40	–	TXT1225	TXT1215
	41-59	–	TXT1024A	TXT1015A
	60-70	–	TXT915A +	TXT926A +
	71-90	–	TXT915A +	
	91-123	–	TXT815A +	
	124-172	TXT805 +	–	–
	173-400	TXT705 +	–	–
150	9-17	–	TDT1530	
	18-27	–	TDT1425	
	28-36	–	TDT1325	
	37-49	–	TXT1225	TXT1215
	50-70	–	TXT1024A	TXT1015A
	71-75	–	TXT1015A +	TXT1024A +
	76-80	–	TXT1015A +	
	81-120	–	TXT915A +	
	121-165	TXT905	–	–
	166-400	TXT805 +	–	–
200	12-23	–	TDT1530	
	24-36	–	TDT1425	
	37-51	–	TDT1325 +	
	52-68	–	TXT1225*	TXT1215*
	69-120	–	TXT1015A +	
	212-400	TXT905 +	–	–
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 G3-162 for lubrication for 15 RPM and slower

+ Fan cooling required – see page G3-71

* Heat exchanger required – see page G3-71

Class II

TXT Torque-Arm shaft mount reducers

Class II - 1.4 service factor

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

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

Hp	Output RPM	Reducer selection	
		Single	Double
10 cont.	8-12	–	TXT825A
	13-18	–	TXT725A
	19-29	–	TXT625A TXT615A
	30-52	–	TXT525C TXT515C
	53-70	–	TXT425B TXT415B
	71-84	–	TXT415B TXT425B
15	85-130	–	TXT315B TXT309B
	131-140	TXT305A	TXT315B TXT309B
	141-200	TXT305A	TXT309B
	201-353	TXT305A	– –
	354-400	TXT205	– –
	4-6	–	TXT1225
15	7-9	–	TXT1024A
	10-12	–	TXT926A
	13-19	–	TXT825A
	20-27	–	TXT725A
	28-47	–	TXT625A TXT615A
	48-70	–	TXT525C TXT515C
20	71-82	–	TXT515C TXT525C
	83-117	–	TXT415B TXT409B
	118-140	TXT405A	TXT409B TXT415B
	141-150	TXT405A	TXT409B
	151-200	TXT405A	TXT309B +
	201-269	TXT405A	– –
20	270-400	TXT305A	– –
	5	–	TDT1325
	6-8	–	TXT1225
	9-12	–	TXT1024A
	13-17	–	TXT926A
	18-26	–	TXT825A
25	27-38	–	TXT725A TXT715A
	39-68	–	TXT625A TXT615A
	69-80	–	TXT515C TXT525C
	81-89	–	TXT515C
	90-117	–	TXT515C + TXT509C +
	118-125	TXT505A	TXT409B + TXT415B +
25	126-200	TXT505A	TXT409B +
	201-400	TXT405A +	– –
	4-6	–	TDT1425
	7-10	–	TXT1225
	11-15	–	TXT1024A
	16-22	–	TXT926A
25	23-33	–	TXT825A TXT815A
	34-49	–	TXT725A TXT715A
	50-80	–	TXT615A TXT625A
	81-94	–	TXT615A TXT609A
	95-125	TXT605	TXT509C + TXT515C +
	126-174	TXT605	TXT509C +
25	175-200	TXT505A	TXT409B +
	201-270	TXT505A	– –
	271-400	TXT405A +	– –

~ See page G3-162 for lubrication for 15 RPM and slower

+ Fan cooling required – see page G3-71

* Heat exchanger required – see page G3-71

Class II

TXT Torque-Arm shaft mount reducers

Class II - 1.4 service factor

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

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

Hp	Output RPM	Reducer selection	
		Single	Double
60	5-9	–	TDT1530
	10-14	–	TDT1425
	15-18	–	TDT1325
	19-26	–	TXT1225
	27-39	–	TXT1024A TXT1015A
	40-56	–	TXT926A TXT915A
	57-70	–	TXT825A TXT815A
	71-75	–	TXT815A TXT825A
	76-89	–	TXT815A
	90-120	TXT705	TXT715A + TXT709A +
	121-200	TXT705	TXT709A +
	201-285	TXT705	– –
	286-400	TXT605 +	– –
	7-12	–	TDT1530
	13-18	–	TDT1425
75	19-24	–	TDT1325
	25-33	–	TXT1225 TXT1215
	34-49	–	TXT1024A TXT1015A
	50-73	–	TXT926A TXT915A
	74-75	–	TXT815A TXT825A
	76-120	TXT805	TXT815A +
	121-133	TXT805	TXT709A +
	134-200	TXT705	TXT709A +
	201-400	TXT705	– –
	8-16	–	TDT1530
	17-25	–	TDT1425
	26-33	–	TDT1325
	34-45	–	TXT1225 TXT1215
	46-67	–	TXT1024A TXT1015A
	68-75	–	TXT915A + TXT926A +
100	76-103	–	TXT915A +
	104-120	TXT905	TXT815A +
	121-149	TXT905	– –
	150-180	TXT805	– –
	181-200	TXT805	TXT709A
	201-204	TXT805	– –
	205-246	TXT705	– –
	247-400	TXT705 +	– –

Hp	Output RPM	Reducer selection	
		Single	Double
125	11-20	–	TDT1530
	21-31	–	TDT1425
	32-43	–	TDT1325
	44-58	–	TXT1225 TXT1215
	59-75	–	TXT1024A TXT1015A
	76-85	–	TXT1015A
	86-120	–	TXT915A +
	145-209	TXT905	– –
	210-303	TXT805 +	– –
	304-400	TXT705 +	– –
	13-25	–	TDT1530
	26-38	–	TDT1425
	39-54	–	TDT1325
	55-72	–	TXT1225 + TXT1215 +
	73-75	–	TXT1015A + TXT1024A +
150	76-120	–	TXT1015A +
	184-279	TXT905 +	– –
	280-400	TXT805 +	– –
	18-33	–	TDT1530
	34-53	–	TDT1425 +
	54-75	–	TDT1325 +
	77-120	–	TXT1215*
	23-42	–	TDT1530
	43-46	–	TDT1425 +
	47-69	–	TDT1425*
	70-75	–	TDT1325 +
	28-53	–	TDT1530
	54-75	–	TDT1425*
	33-57	–	TDT1530
	66-75	–	TDT1425*
200	38-57	–	TDT1530 +
	43-57	–	TDT1530 +
	50-57	–	TDT1530 +

~ See page G3-162 for lubrication for 15 RPM and slower

+ Fan cooling required – see page G3-71

* Heat exchanger required – see page G3-71

Class III

TXT Torque-Arm shaft mount reducers

Class III - 2.0 service factor

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

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

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

~ See page G3-162 for lubrication for 15 RPM and slower

+ Fan cooling required – see page G3-71

* Heat exchanger required – see page G3-71

Class III

TXT Torque-Arm shaft mount reducers

Class III - 2.0 service factor

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

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

Hp	Output RPM	Reducer selection	
		Single	Double
50	6-11	–	TDT1530
	12-17	–	TDT1425
	18-22	–	TDT1325
	23-31	–	TXT1225 TXT1215
	32-46	–	TXT1024A TXT1015A
	47-69	–	TXT926A TXT915A
	70-75	–	TXT815A TXT825A
	76-110	–	TXT815A
	111-120	–	TXT715A + TXT709A +
	121-123	TXT805	TXT709A +
60	124-200	TXT705	TXT709A +
	201-400	TXT705	– –
	7-14	–	TDT1530
	15-21	–	TDT1425
	22-28	–	TDT1325
	29-38	–	TXT1225 TXT1215
	39-56	–	TXT1024A TXT1015A
	57-75	–	TXT926A TXT915A
	76-85	–	TXT915A
	86-115	–	TXT815A
75	116-141	TXT805	– –
	142-161	TXT805	TXT709A +
	162-200	TXT705	TXT709A +
	201-400	TXT705	
	9-17	–	TDT1530
	18-26	–	TDT1425
	27-36	–	TDT1325
	37-49	–	TXT1225 TXT1215
	50-72	–	TXT1024A TXT1015A
	73-75	–	TXT915A + TXT926A +
100	76-120	–	TXT915A +
	121-165	TXT905	– –
	166-234	TXT805	– –
	235-400	TXT705	– –

Hp	Output RPM	Reducer selection	
		Single	Double
100	12-23	–	TDT1530
	24-36	–	TDT1425
	37-51	–	TDT1325
	52-68	–	TXT1225 + TXT1215 +
	69-120	–	TXT1015A
	175-259	TXT905	– –
	260-387	TXT805 +	– –
	388-400	TXT705 +	– –
125	16-30	–	TDT1530
	31-43	–	TDT1425
	44-46	–	TDT1425 +
	47-67	–	TDT1325
	68-70	–	TXT1225 + TXT1215 +
	71-75	–	TXT1215 + TXT1225 +
	76-90	–	TXT1215 +
	91-120	–	TXT1015A +
150	19-36	–	TDT1530
	37-41	–	TDT1425
	42-58	–	TDT1425+
	59-75	–	TDT1325+
	83-110	–	TXT1215 *
200	27-50	–	TDT1530
	51-75	–	TDT1425 *
250	34-57	–	TDT1530
	66-75	–	TDT1425 *
300	41-57	–	TDT1530
350	50-57	–	TDT1530

~ See page G3-162 for lubrication for 15 RPM and slower

+ Fan cooling required – see page G3-71

* Heat exchanger required – see page G3-71

Notes

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

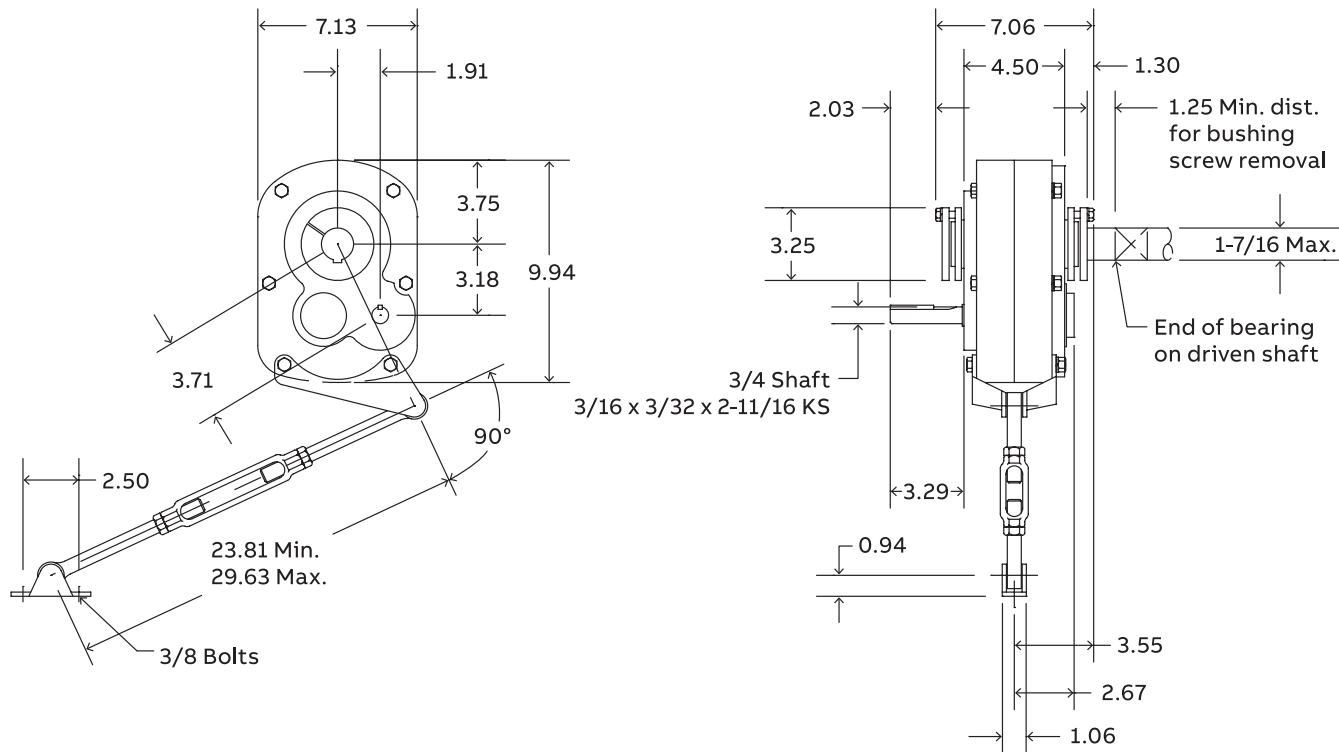
Bulk Material Handling

Selection and Dimensions

TXT1A - TXT105

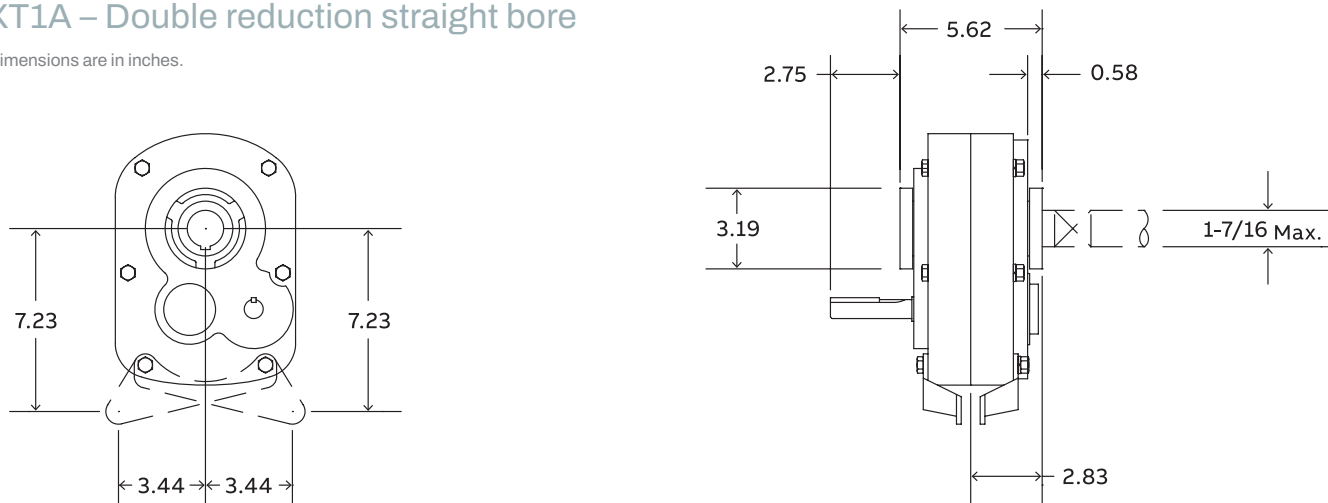
TXT1A – Double reduction taper bushed

All dimensions are in inches.



TXT1A – Double reduction straight bore

All dimensions are in inches.



TXT1A

TXT1A – Double reduction taper bushed

TXT1A taper bushed reducers ■ ○

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

TXT1A straight bore reducers ■ ○

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

Accessories for TXT1A reducers

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

TXT1 bushing assemblies ●

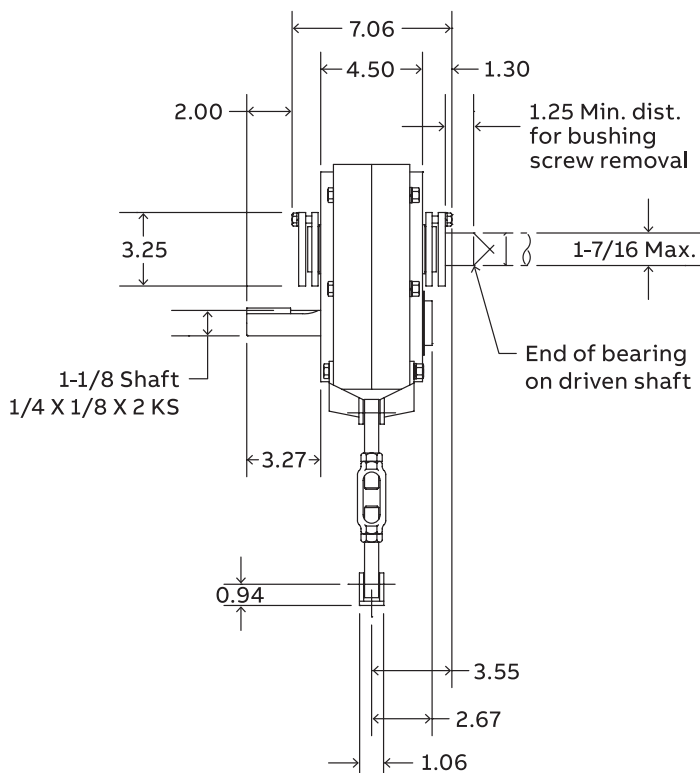
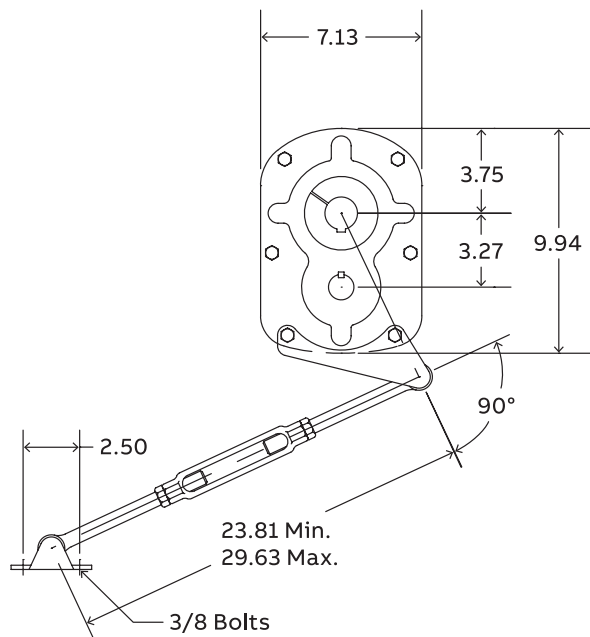
Stock bore size	Part number		Shaft keyseat required †		Weight	
	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
1-7/16 (Max.)	241292	◆	3/8 x 3/16 x 6-7/16	3/8 x 3/16 x 2	2.0	–
1-3/8 –	241294	–	5/16 x 5/32 x 6-7/16	–	1.8	–
1-5/16 ▲	241290	241347	5/16 x 5/32 x 6-7/16	5/16 x 5/32 x 2	1.8	0.4
1-1/4 ▲	241288	241346	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 2	2.0	0.6
1-3/16 ▲	241286	241345	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 2	2.2	0.6
1-1/8 ▲	241282	241344	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 1-3/4	2.2	0.6
1 ▲	241278	241342	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 1-3/4	2.5	1.0

- ♣ Made to order
- † Shaft key furnished.
- ▲ Check the driven shaft and key for strength.
- ◆ Preferred bore. No bushing required for this bore size.
- Stock TXT Reducers are drilled for vertical mounting.
- ♠ Dodge standard belt guards will not fit this motor mount.
- See pages G3-164 and G3-165 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 G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT105

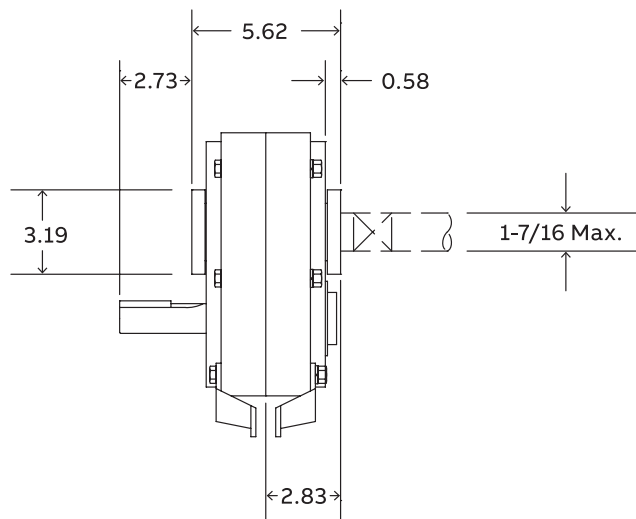
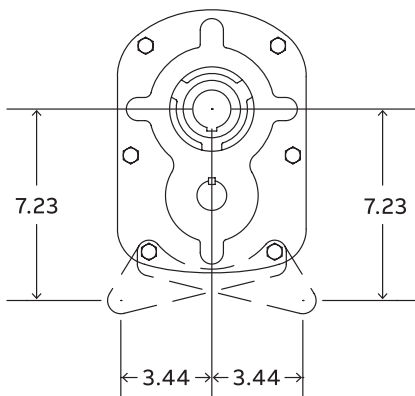
TXT105 – Single reduction taper bushed

All dimensions are in inches.



TXT105 – Single reduction straight bore

All dimensions are in inches.



TXT105

TXT105 – Single reduction taper bushed

TXT105 taper bushed reducers ■ ○

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

TXT105 straight bore reducers ■ ○

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

Accessories for TXT105 reducers

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

TXT1 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight	
		Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
1-7/16	(Max.)	241292	◆	3/8 x 3/16 x 6-7/16	3/8 x 3/16 x 2	2.0	–
1-3/8	–	241294	–	5/16 x 5/32 x 6-7/16	–	1.8	–
1-5/16	▲	241290	241347	5/16 x 5/32 x 6-7/16	5/16 x 5/32 x 2	1.8	0.4
1-1/4	▲	241288	241346	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 2	2.0	0.6
1-3/16	▲	241286	241345	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 2	2.2	0.6
1-1/8	▲	241282	241344	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 1-3/4	2.2	0.6
1	▲	241278	241342	1/4 x 1/8 x 6-7/16	1/4 x 1/8 x 1-3/4	2.5	1.0

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-164 and G3-165 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.

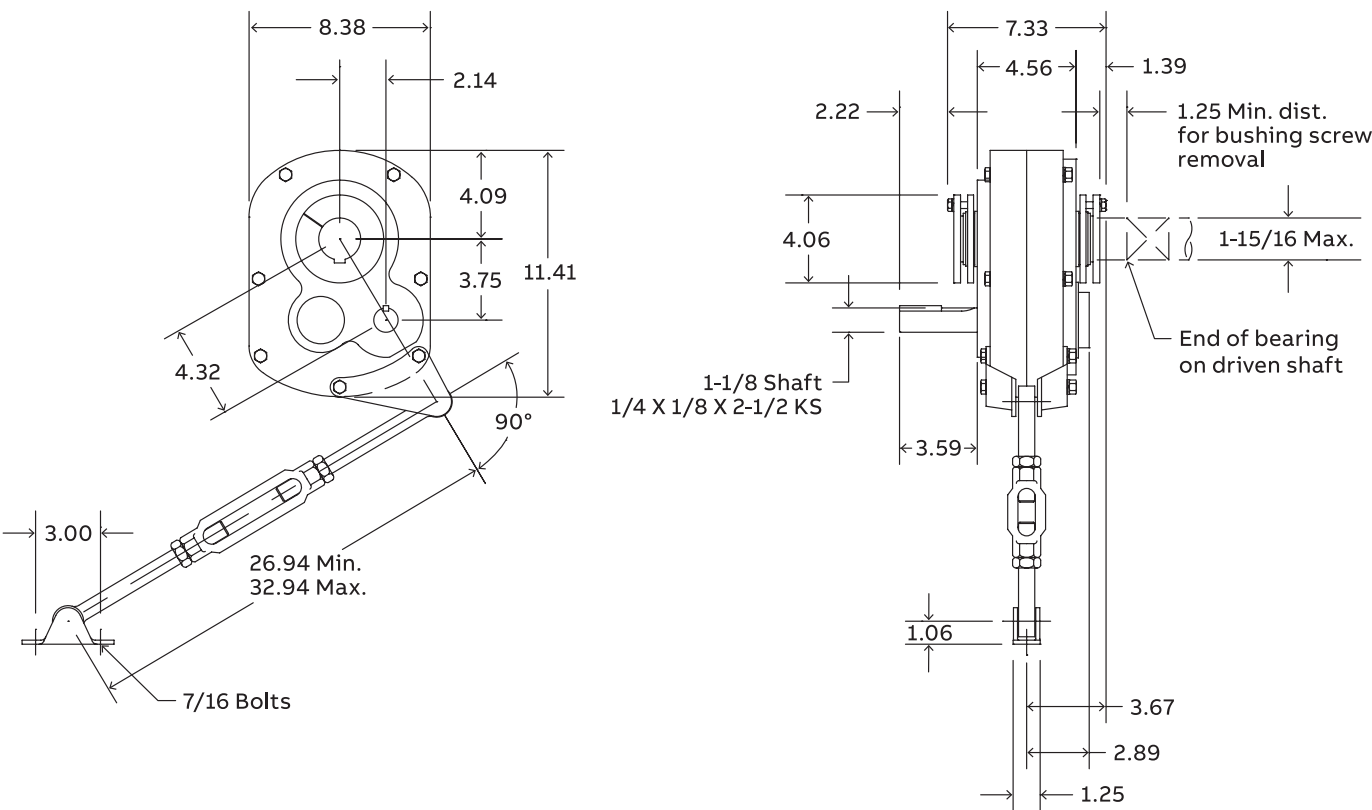
♥ Use with taper bushed reducer only. See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT2A - TXT205

Selection and dimensions

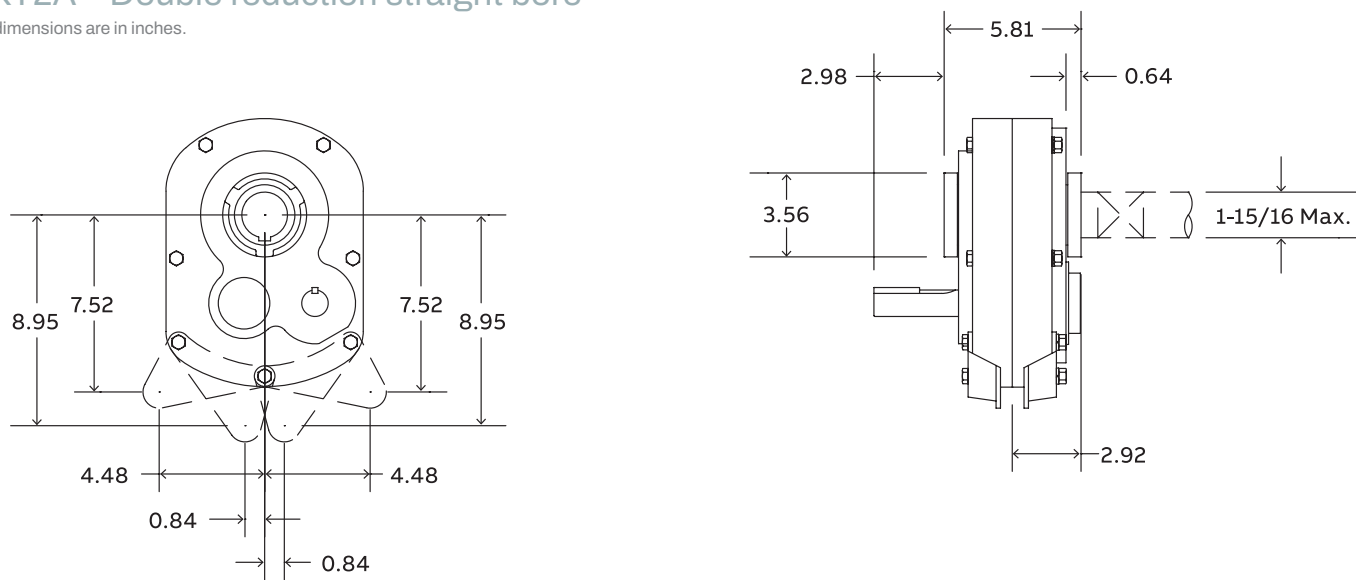
TXT2A – Double reduction taper bushed

All dimensions are in inches.



TXT2A – Double reduction straight bore

All dimensions are in inches.



TXT2A

Selection and dimensions

TXT2A – Double reduction taper bushed

TXT2A taper bushed reducers ■ ○

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

TXT2A straight bore reducers ■ ○

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

Accessories for TXT2A reducers

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

TXT2 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight	
		Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
1-15/16	(Max.)	242168	◆	1/2 x 1/4 x 6-11/16	1/2 x 1/4 x 2-1/2	2.9	–
1-3/4	–	242166	242351	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-7/8	3.3	0.8
1-11/16	–	242164	242350	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-7/8	3.4	1.1
1-5/8	▲	242162	242349	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-7/8	3.2	1.2
1-1/2	▲	242158	242348	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-1/2	3.8	1.5
1-7/16	▲	242156	242347	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-1/2	4.0	1.7
1-3/8	▲	242154	242346	5/16 x 5/32 x 6-11/16	5/16 x 5/32 x 2	3.6	1.8
1-5/16	▲	242152	242345	5/16 x 5/32 x 6-11/16	5/16 x 5/32 x 2	3.6	1.8
1-1/4	▲	242150	242344	1/4 x 1/8 x 6-11/16	1/4 x 1/8 x 2	3.6	2.1
1-3/16	▲	242148	242343	1/4 x 1/8 x 6-11/16	1/4 x 1/8 x 2	3.6	2.2
1-1/8	▲	242146	–	1/4 x 1/8 x 6-11/16	–	3.8	–

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-164 and G3-165 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.

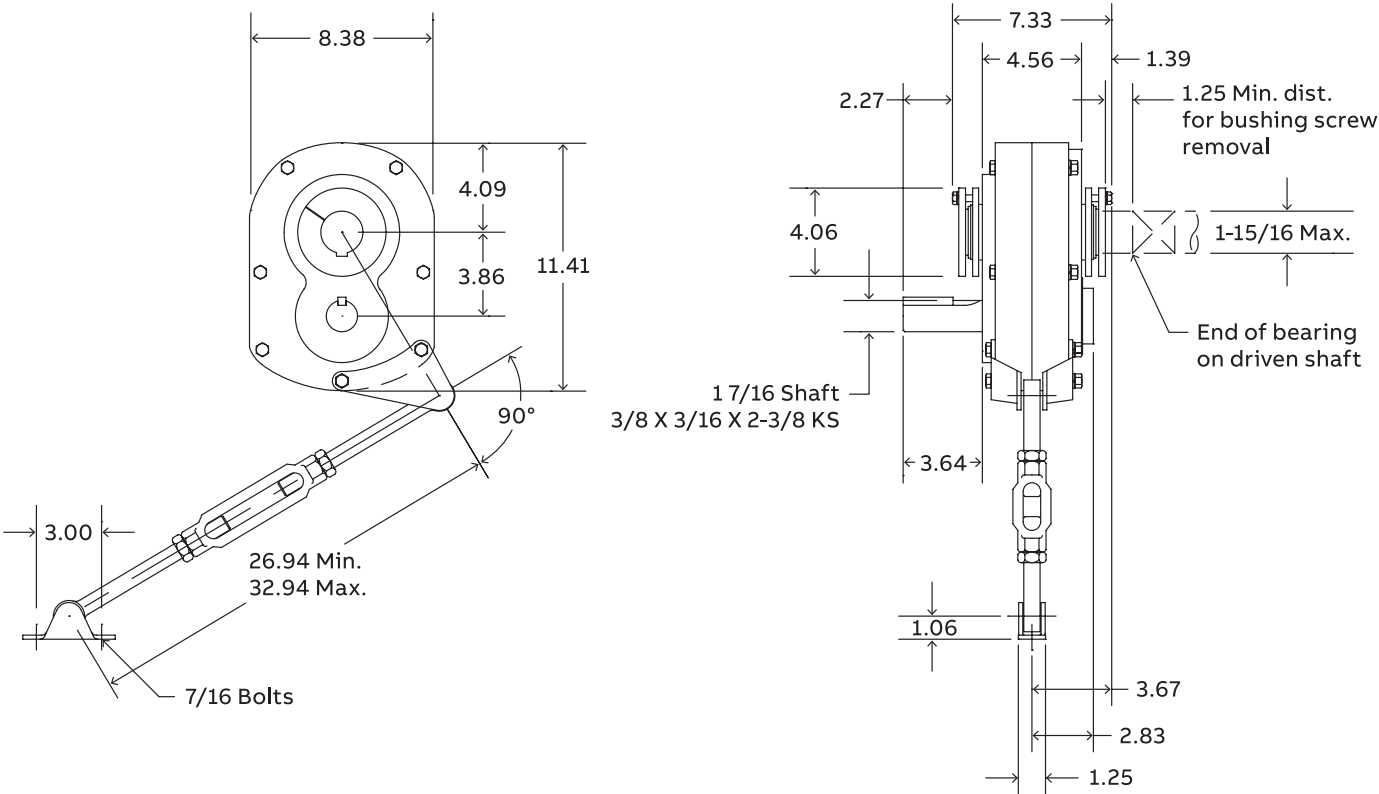
♥ Use with taper bushed reducer only. See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT205

Selection and dimensions

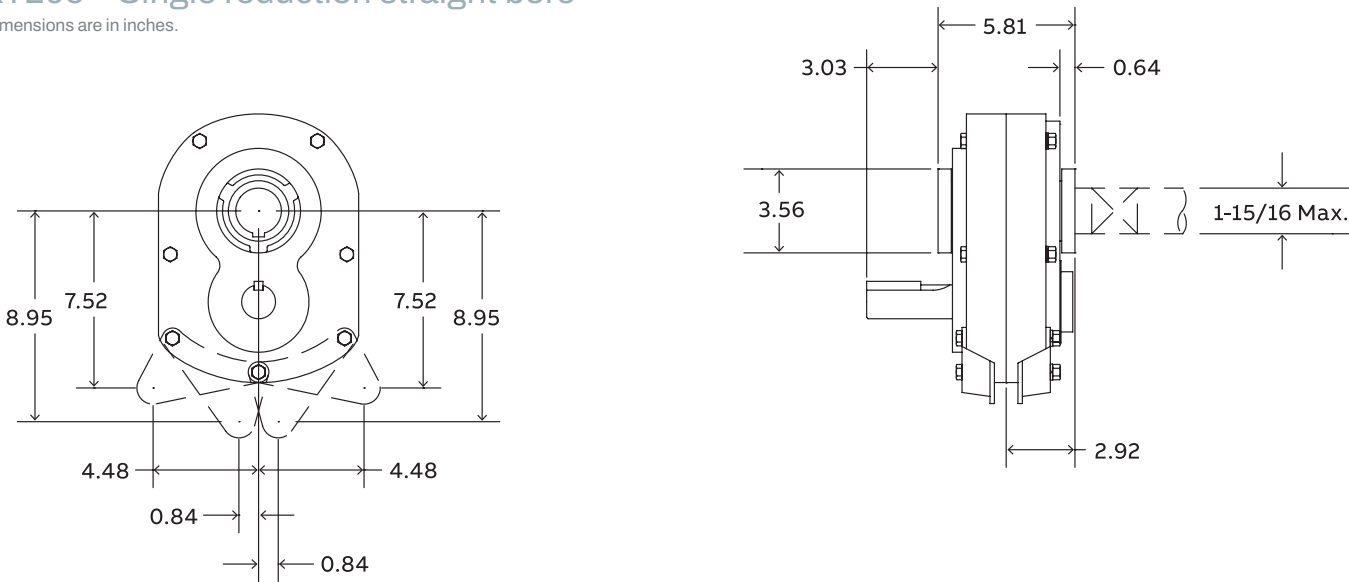
TXT205 – Single reduction taper bushed

All dimensions are in inches.



TXT205 – Single reduction straight bore

All dimensions are in inches.



TXT205

Selection and dimensions

TXT205 – Single reduction taper bushed

TXT205 taper bushed reducers ■ ○

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

TXT205 straight bore reducers ■ ○

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

Accessories for TXT205 reducers

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

TXT2 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight	
		Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
1-15/16	(Max.)	242168	◆	1/2 x 1/4 x 6-11/16	1/2 x 1/4 x 2-1/2	2.9	–
1-3/4	–	242166	242351	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-7/8	3.3	0.8
1-11/16	–	242164	242350	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-7/8	3.4	1.1
1-5/8	▲	242162	242349	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-7/8	3.2	1.2
1-1/2	▲	242158	242348	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-1/2	3.8	1.5
1-7/16	▲	242156	242347	3/8 x 3/16 x 6-11/16	3/8 x 3/16 x 2-1/2	4.0	1.7
1-3/8	▲	242154	242346	5/16 x 5/32 x 6-11/16	5/16 x 5/32 x 2	3.6	1.8
1-5/16	▲	242152	242345	5/16 x 5/32 x 6-11/16	5/16 x 5/32 x 2	3.6	1.8
1-1/4	▲	242150	242344	1/4 x 1/8 x 6-11/16	1/4 x 1/8 x 2	3.6	2.1
1-3/16	▲	242148	242343	1/4 x 1/8 x 6-11/16	1/4 x 1/8 x 2	3.6	2.2
1-1/8	▲	242146	–	1/4 x 1/8 x 6-11/16	–	3.8	–

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-164 and G3-165 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.

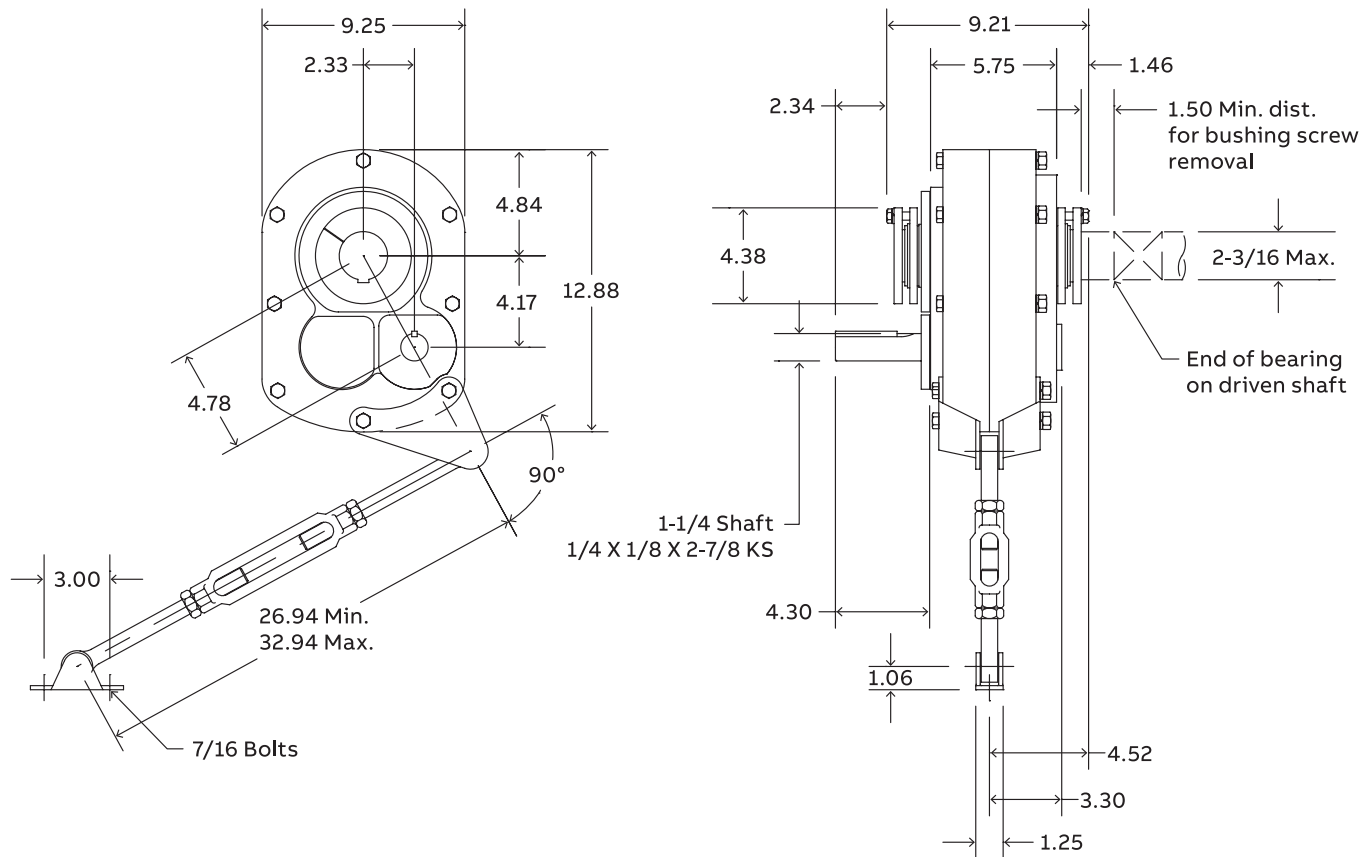
♥ Use with taper bushed reducer only. See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT3B - TXT305A

Selection and dimensions

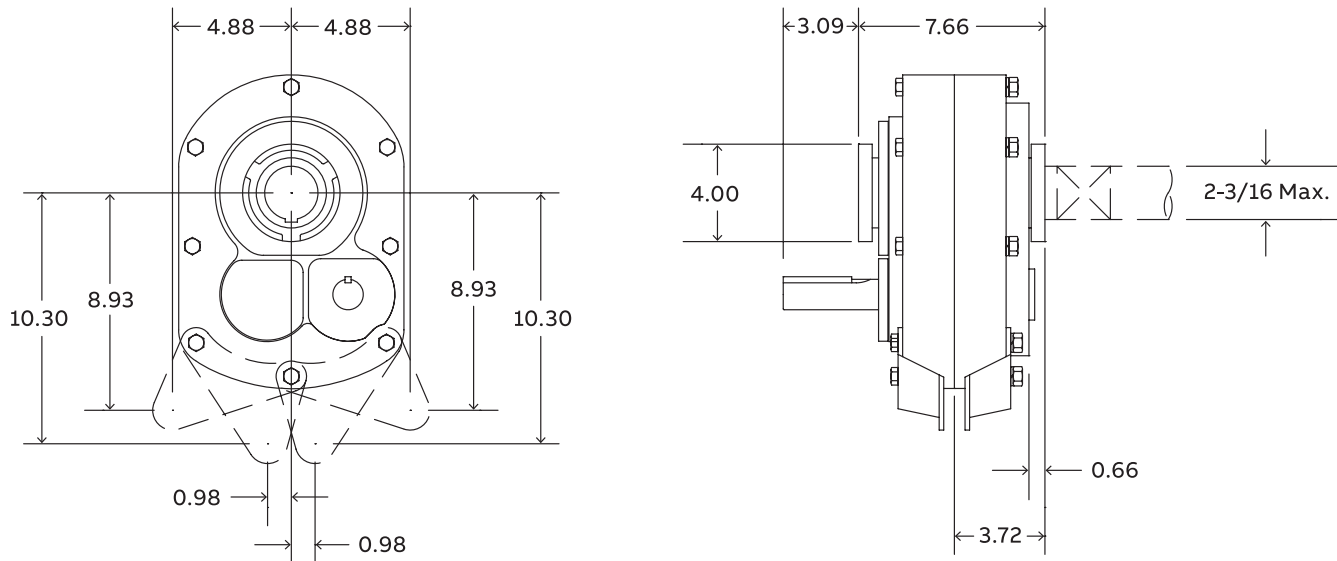
TXT3B – Double reduction taper bushed

All dimensions are in inches.



TXT3B – Double reduction straight bore

All dimensions are in inches.



TXT3B

Selection and dimensions

TXT3B – Double reduction taper bushed

TXT3B taper bushed reducers ■ ○

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

TXT3B straight bore reducers ■ ○

Reducer size	Part number	AGMA code	Actual ratio	Weight lbs.
TXT309BS	243512 ♣	203D09	8.91	98
TXT315BS	243513	203D15	14.88	98
TXT325BS	243514	203D25	24.71	98

Accessories for TXT3B reducers

Description	Part number	Weight lbs.
TA3M Standard motor mount (56T-215T)	243391	38
TA3M Special motor mount (254T-256T) ♠ ♣	243393	45
TA3ML Long motor mount (143T-215T) ♣	243392	42
TAB3 Bottom motor mount (143T-286T) ♠ ♣	243404	54
TXT3A Backstop assembly	243106	.6
TXT3D TA reducer belt guard (56T-215T)	243387	43
TXT3D TA reducer belt guard for long motor mount (56T-215T) ♣	243153	52
TXT3A Cooling fan assembly	243581	3
TXT3A Taconite auxiliary seal kit ♥	243577	7.3
TXT3 Lube kit	LUBEKITTXT3	6.9
Dodge OPTIFY sensor	750000	0.5

TXT3 bushing assemblies ●

Stock bore size	Part number		Shaft keyseat required †		Weight	
	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
2-3/16 (Max.)	243276	◆	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	3.7	–
2	243274	243429	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	4.1	1.0
1-15/16	243272	243428	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	4.4	1.2
1-7/8	243270	243427 ♣	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	4.3	1.9
1-3/4	243266	243426	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 3-1/4	4.8	1.9
1-11/16	243268	243425	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 3-1/4	4.8	2.2
1-5/8	243264 ♣	243424	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 2-1/4	4.8	2.3
1-1/2	243262	243423	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 2-1/4	5.4	2.5
1-7/16	243260	243422	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 2-1/4	5.6	2.7
1-3/8	243284	243421	5/16 x 5/32 x 8-1/16	5/16 x 5/32 x 2-1/4	5.8	3.2
1-5/16	243282	243420	5/16 x 5/32 x 8-1/16	5/16 x 5/32 x 2-1/4	5.8	3.8

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-164 and G3-165 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.

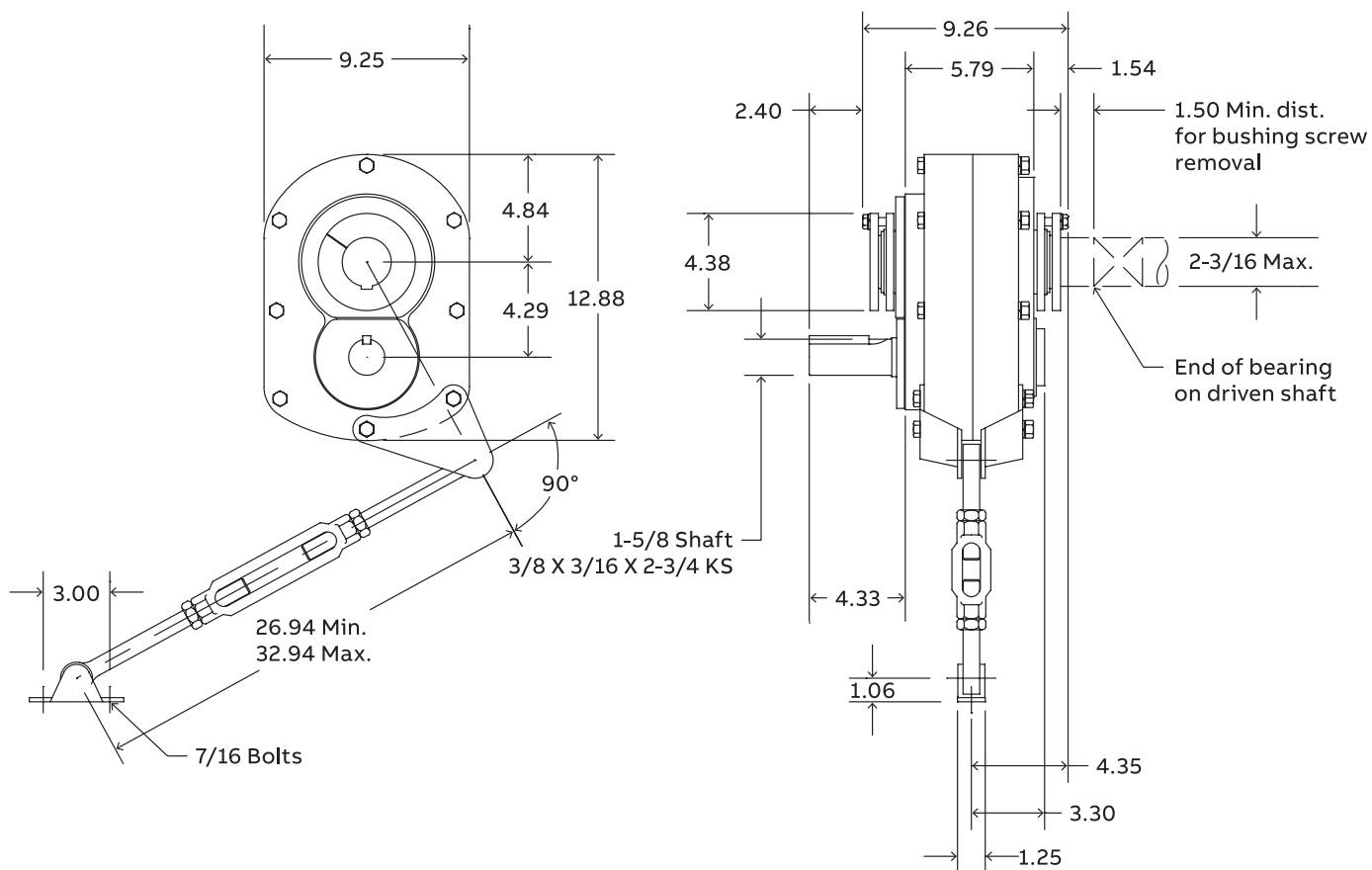
♥ Use with taper bushed reducer only. See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT305A

Selection and dimensions

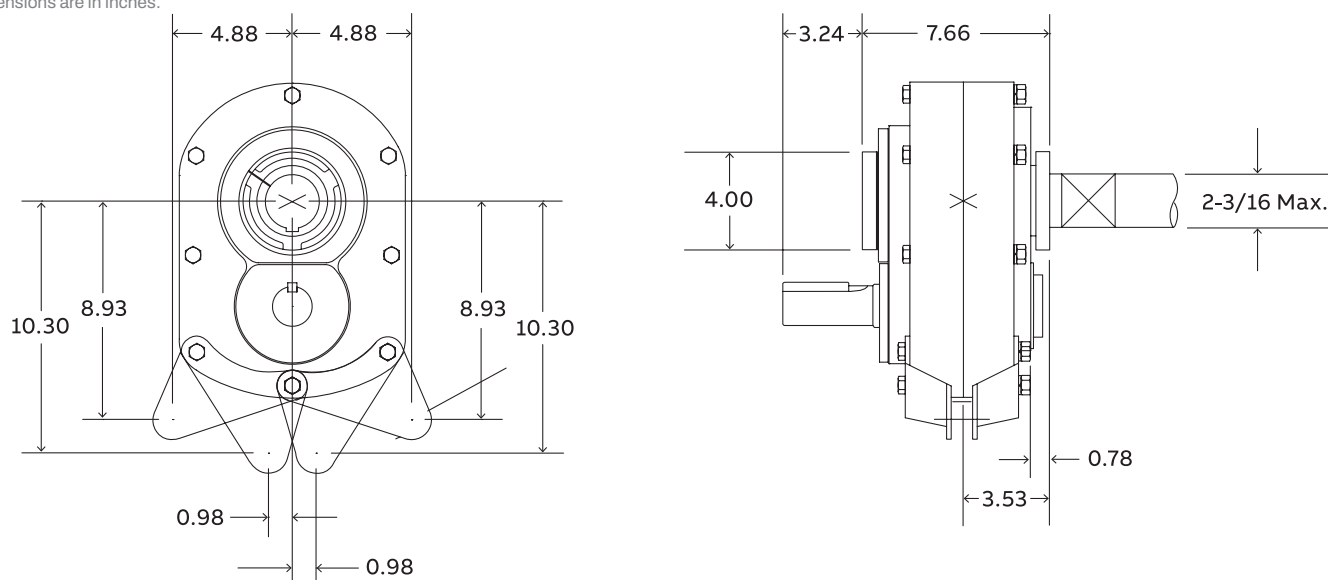
TXT305A – Single reduction taper bushed

All dimensions are in inches.



TXT305A – Single reduction straight bore

All dimensions are in inches.



TXT305A

Selection and dimensions

TXT305A – Single reduction taper bushed

TXT305A taper bushed reducers ■ ○

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

TXT305A straight bore reducers ■ ○

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

Accessories for TXT305A reducers

Description	Part number	Weight lbs.
TA3M Standard motor mount (56T-215T)	243391	38
TA3M Special motor mount (254T-256T) ♠ ♣	243393	45
TA3ML Long motor mount (143T-215T) ♣	243392	42
TAB3 Bottom motor mount (143T-286T) ♠ ♣	243404	54
TXT305A Backstop assembly	252101	1
TXT3S TA reducer belt guard (56T-215T)	243389	43
TXT3S TA reducer belt guard for long motor mount (56T-215T) ♣	243164	55
TXT305A Cooling fan assembly	253188	3
TXT305A Taconite auxiliary seal kit ♥	253186	7.6
TXT305 Lube kit	LUBEKITTXT305	8.1
Dodge OPTIFY sensor	750000	0.5

TXT3 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight	
		Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
2-3/16	(Max.)	243276	◆	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	3.7	–
2	–	243274	243429	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	4.1	1.0
1-15/16	–	243272	243428	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	4.4	1.2
1-7/8	▲	243270	243427 ♣	1/2 x 1/4 x 8-1/16	1/2 x 1/4 x 3-5/8	4.3	1.9
1-3/4	▲	243266	243426	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 3-1/4	4.8	1.9
1-11/16	▲	243268	243425	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 3-1/4	4.8	2.2
1-5/8	▲	243264 ♣	243424	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 2-1/4	4.8	2.3
1-1/2	▲	243262	243423	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 2-1/4	5.4	2.5
1-7/16	▲	243260	243422	3/8 x 3/16 x 8-1/16	3/8 x 3/16 x 2-1/4	5.6	2.7
1-3/8	▲	243284	243421	5/16 x 5/32 x 8-1/16	5/16 x 5/32 x 2-1/4	5.8	3.2
1-5/16	▲	243282	243420	5/16 x 5/32 x 8-1/16	5/16 x 5/32 x 2-1/4	5.8	3.8

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-164 and G3-165 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.

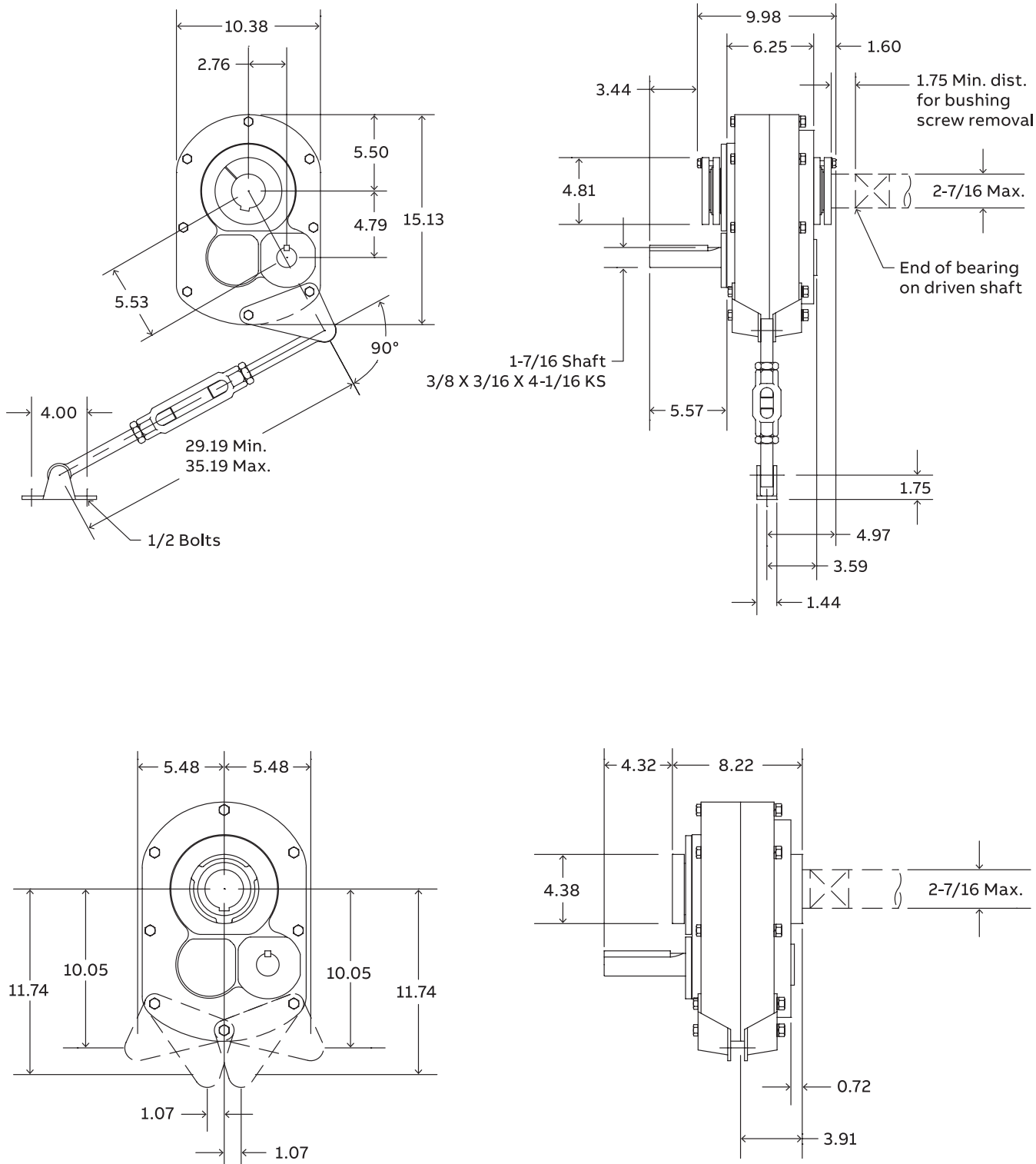
♥ Use with taper bushed reducer only. See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT4B

Selection and dimensions

TXT4B – Double reduction taper bushed

All dimensions are in inches.



TXT4B

Selection and dimensions

TXT4B – Double reduction taper bushed

TXT4B taper bushed reducers ■ ○

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

TXT4B straight bore reducers ■ ○

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

Accessories for TXT4B reducers

Description	Part number	Weight lbs.
TA4M Standard motor mount (143T-286T)	244391	75
TA4ML Long motor mount (143T-286T)	244392	75
TAB4 Bottom motor mount (143T-326T) ♠ ♣	244404	55
TXT4A Backstop assembly	244106	1.2
TXT4D TA reducer belt guard (143T-286T)	244395	54
TXT4D TA reducer belt guard for long motor mount (143T-286T) ♠ ♣	244151	65
TXT4A Cooling fan assembly	272594	3
TXT4A Taconite auxiliary seal kit ♥	244676	7.7
TXT4 Lube kit	LUBEKITTXT4	10.4
Dodge OPTIFY sensor	750000	0.5

TXT4 bushing assemblies ●

Stock bore size	Part number		Shaft keyseat required †		Weight	
	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
2-7/16 (Max.)	244115	◆	5/8 x 5/16 x 9-1/32	5/8 x 5/16 x 3-3/8	5.8	–
2-1/4 ▲	244113	244430	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 3-3/8	6.3	1.2
2-3/16 ▲	244111	244429	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 3-3/8	6.7	1.5
2-1/8 ▲	244109	244428	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 3-3/8	7.0	2.6
2 ▲	244095	244427	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 4	7.1	2.6
1-15/16 ▲	244093	244426	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 4	7.4	3.5
1-3/4 ▲	244087	244424	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.0	3.6
1-11/16 ▲	244085	244423 ♣	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.3	3.6
1-1/2 ▲	244081	244421	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.3	4.1
1-7/16 ▲	244079	244420	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.8	4.1

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-164 and G3-165 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.

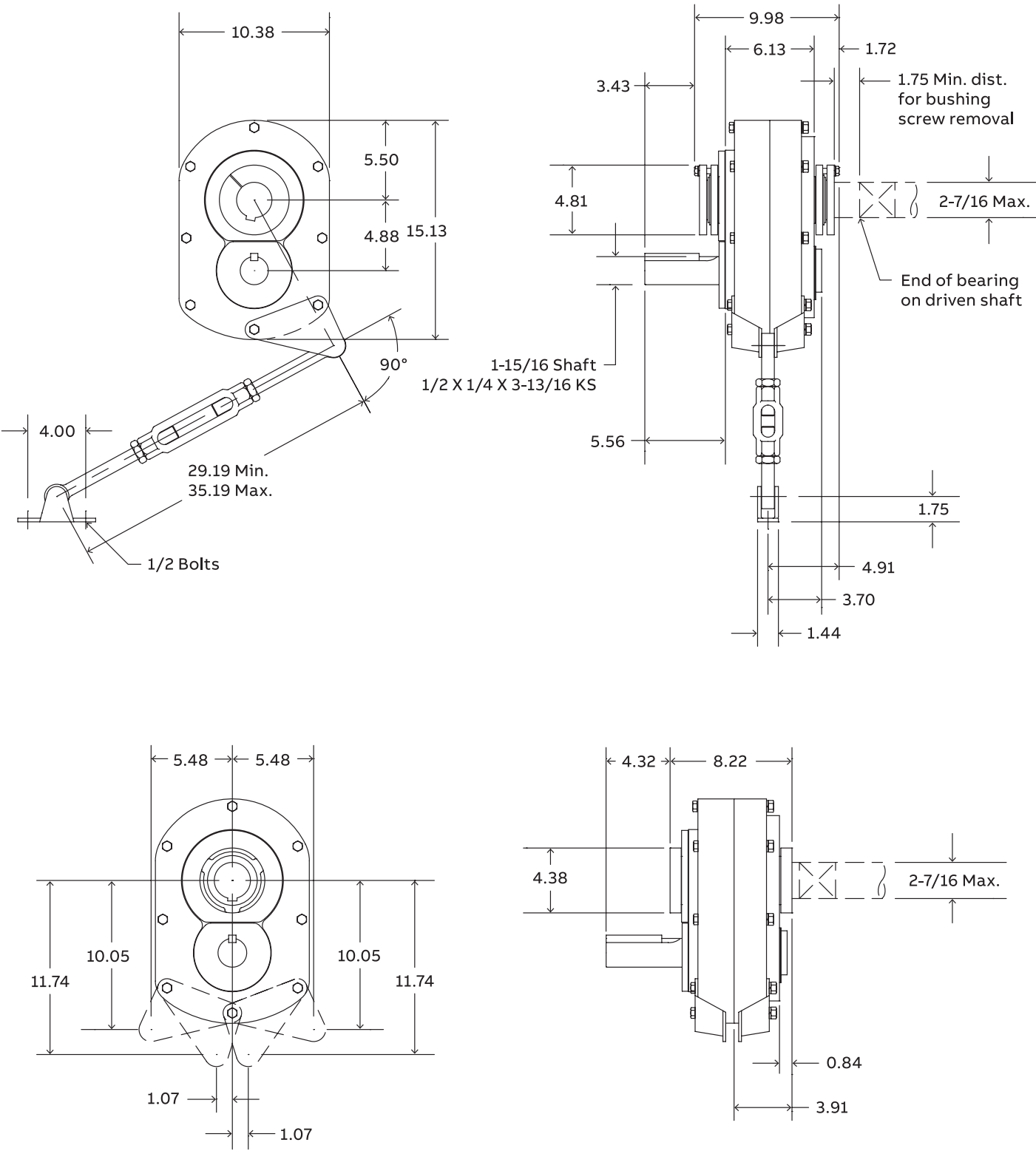
♥ Use with taper bushed reducer only. See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT405A

Selection and dimensions

TXT405A – Single reduction taper bushed

All dimensions are in inches.



TXT405A

Selection and dimensions

TXT405A – Single reduction taper bushed

TXT405A taper bushed reducers ■ ○

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

TXT405A straight bore reducers ■ ○

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

Accessories for TXT405A reducers

Description	Part number	Weight lbs.
TA4M Standard motor mount (143T-286T)	244391	75
TA4ML Long motor mount (143T-286T)	244392	75
TAB4 Bottom motor mount (143T-326T) ♣ ♣	244404	55
TXT405A Backstop assembly	244148	.9
TXT4S TA reducer belt guard (143T-286T)	244397	54
TXT4S TA reducer belt guard for long motor mount (143T-286T) ♠ ♣	244164	65
TXT405A Cooling fan assembly	254268	3
TXT405A Taconite auxiliary seal kit ♥	254267	7.9
TXT405 Lube kit	LUBEKITTXT405	12.7
Dodge OPTIFY sensor	750000	0.5

TXT4 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight	
		Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
2-7/16	(Max.)	244115	◆	5/8 x 5/16 x 9-1/32	5/8 x 5/16 x 3-3/8	5.8	–
2-1/4	▲	244113	244430	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 3-3/8	6.3	1.2
2-3/16	▲	244111	244429	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 3-3/8	6.7	1.5
2-1/8	▲	244109	244428	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 3-3/8	7.0	2.6
2	▲	244095	244427	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 4	7.1	2.6
1-15/16	▲	244093	244426	1/2 x 1/4 x 9-1/32	1/2 x 1/4 x 4	7.4	3.5
1-3/4	▲	244087	244424	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.0	3.6
1-11/16	▲	244085	244423 ♣	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.3	3.6
1-1/2	▲	244081	244421	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.3	4.1
1-7/16	▲	244079	244420	3/8 x 3/16 x 9-1/32	3/8 x 3/16 x 2-7/16	8.8	4.1

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-164 and G3-165 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.

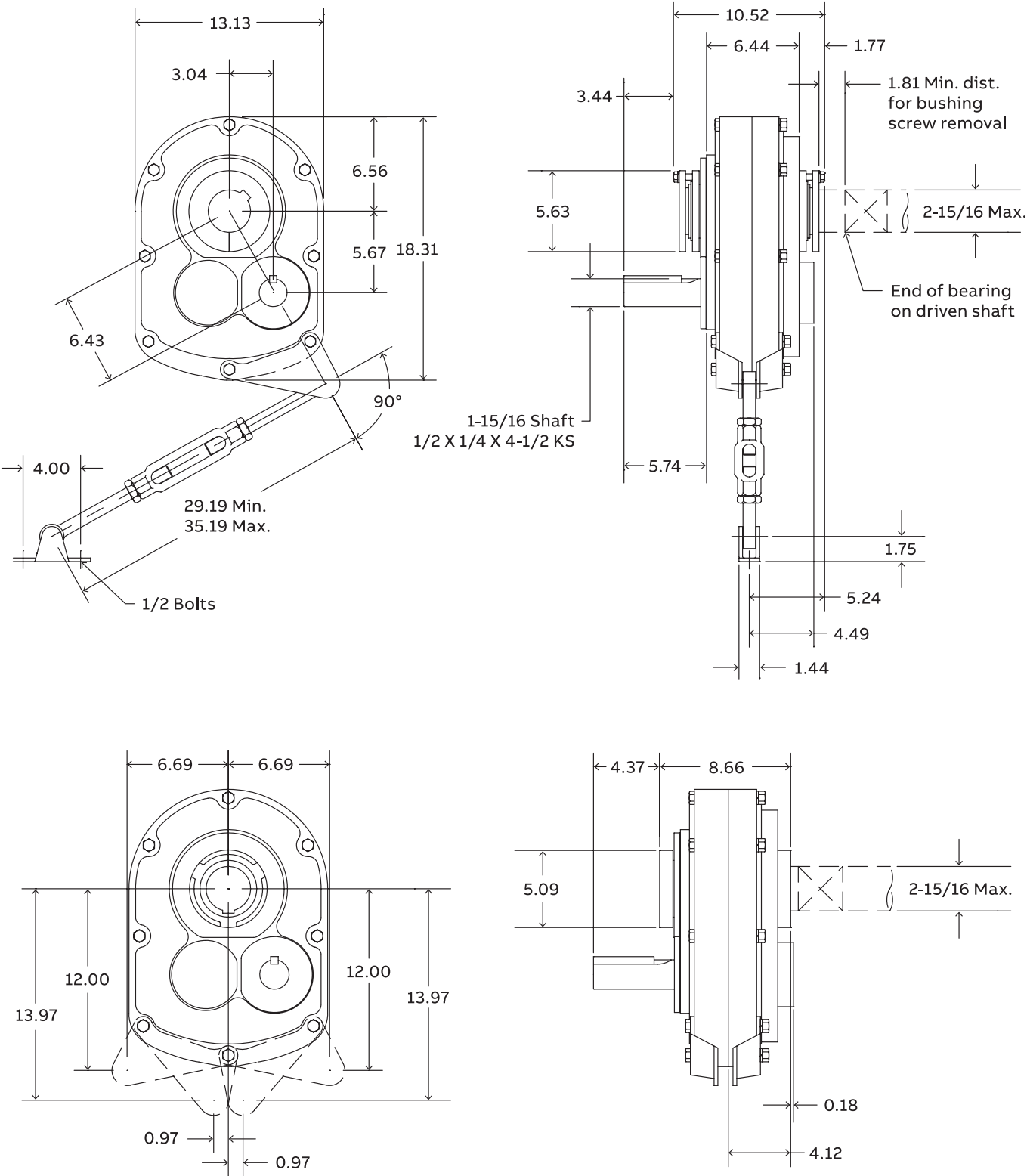
♥ Use with taper bushed reducer only. See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT5C - TXT505A

Selection and dimensions

TXT5C – Double reduction taper bushed

All dimensions are in inches.



TXT5C

Selection and dimensions

TXT5C – Double reduction taper bushed

TXT5C taper bushed reducers ■ ○

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

TXT5C straight bore reducers ■ ○

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

Accessories for TXT5C reducers

Description	Part number	Weight lbs.
TA5M Standard motor mount (143T-286T)	245391	76
TA5M Special motor mount (324T-326T) ♠ ♣	245393	79
TA5ML Long motor mount (143T-286T)	245392	89
TAB5 Bottom motor mount (143T-326T) ♠	245405	55
TXT5B Backstop assembly	245154	2.2
TXT5D TA reducer belt guard (143T-286T)	245387	75
TXT5D TA reducer belt guard for long motor mount (143T-286T) ♣	245102	90
TXT5B Cooling fan assembly	272369	3
TXT5B Taconite auxiliary seal kit ♥	245635	11.9
TXT5 Lube kit	LUBEKITTXT5	18.5
Dodge OPTIFY sensor	750000	0.5

TXT5 bushing assemblies ●

Stock bore size	Part number		Shaft keyseat required †		Weight	
	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
2-15/16 (Max.)	245112	◆	3/4 x 3/8 x 9-3/8	3/4 x 3/8 x 4-3/8	7.8	–
2-11/16 –	245110	245428	5/8 x 5/16 x 9-3/8	5/8 x 5/16 x 4-3/8	7.9	3.0
2-1/2 ▲	245099	245427	5/8 x 5/16 x 9-3/8	5/8 x 5/16 x 4-3/8	8.5	3.4
2-7/16 ▲	245094	245426	5/8 x 5/16 x 9-3/8	5/8 x 5/16 x 4-3/8	8.5	4.3
2-1/4 ▲	245092	245425	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	9.2	4.7
2-3/16 ▲	245090	245424	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10.0	5.6
2 ▲	245088	245423	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10.2	5.9
1-15/16 ▲	245086	245422	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10.3	6.1

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-164 and G3-165 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 G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT505A

Selection and dimensions

TXT505A – Single reduction taper bushed

All dimensions are in inches.

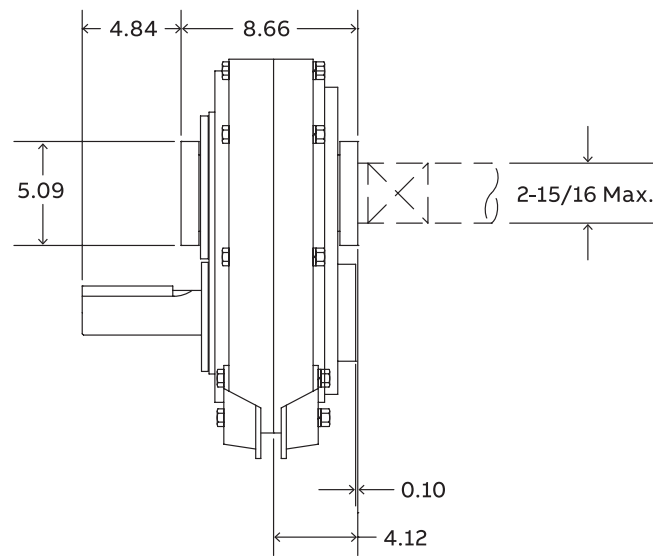
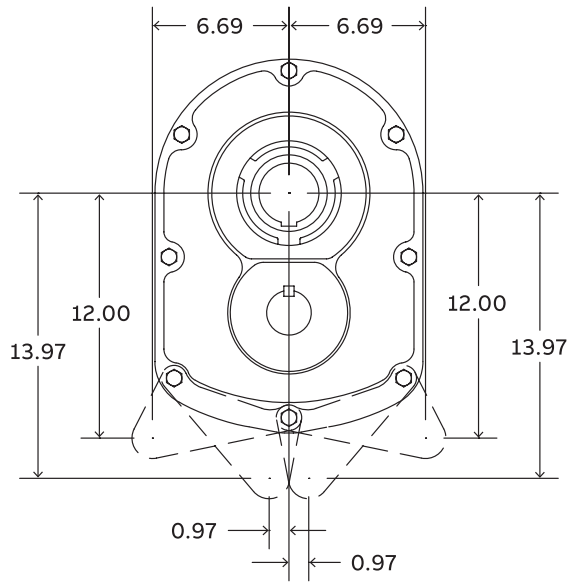
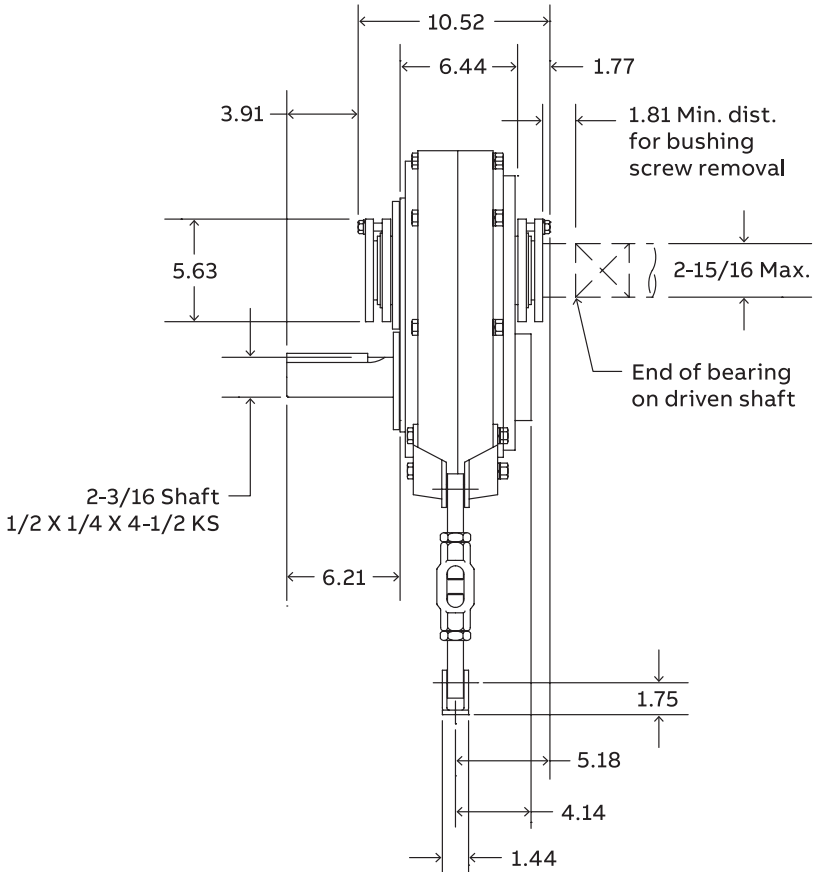
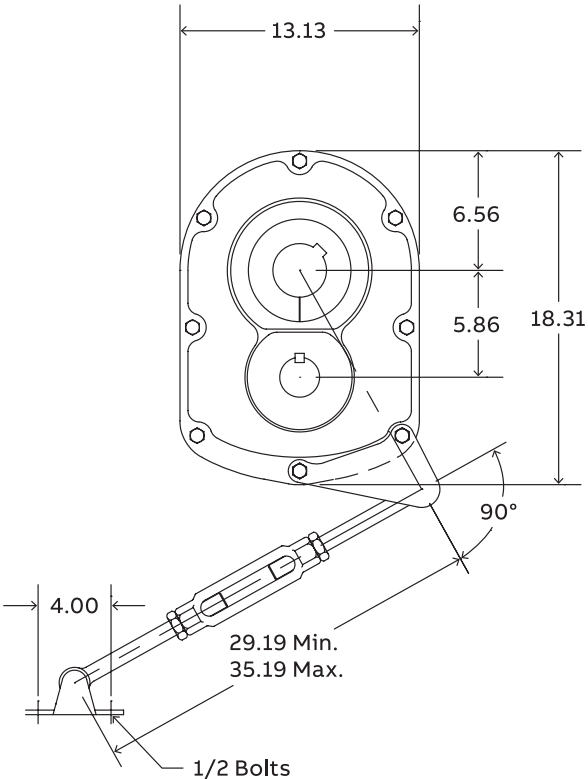
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



TXT505A

Selection and dimensions

TXT505A – Single reduction taper bushed

TXT505A taper bushed reducers ■ ○

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

TXT505A straight bore reducers ■ ○

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

Accessories for TXT505A reducers

Description	Part number	Weight lbs.
TA5M Standard motor mount (143T-286T)	245391	76
TA5M Special motor mount (324T-326T) ♣ ♣	245393	79
TA5ML Long motor mount (143T-286T)	245392	89
TAB5 Bottom motor mount (143T-326T) ♠	245405	55
TXT505A Backstop assembly	246101	1.8
TXT5S TA reducer belt guard (143T-286T)	245389	59
TXT5S TA reducer belt guard for long motor mount (143T-286T) ♣	245162	90
TXT505A Cooling fan assembly	255231	3
TXT505A Taconite auxiliary seal kit ♥	255230	12.3
TXT505 Lube kit	LUBEKITTXT505	18.5
Dodge OPTIFY sensor	750000	0.5

TXT5 bushing assemblies ●

Stock bore size	Part number		Shaft keyseat required †		Weight	
	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
2-15/16 (Max.)	245112	◆	3/4 x 3/8 x 9-3/8	3/4 x 3/8 x 4-3/8	7.8	–
2-11/16 –	245110	245428	5/8 x 5/16 x 9-3/8	5/8 x 5/16 x 4-3/8	7.9	3.0
2-1/2 ▲	245099	245427	5/8 x 5/16 x 9-3/8	5/8 x 5/16 x 4-3/8	8.5	3.4
2-7/16 ▲	245094	245426	5/8 x 5/16 x 9-3/8	5/8 x 5/16 x 4-3/8	8.5	4.3
2-1/4 ▲	245092	245425	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	9.2	4.7
2-3/16 ▲	245090	245424	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10.0	5.6
2 ▲	245088	245423	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10.2	5.9
1-15/16 ▲	245086	245422	1/2 x 1/4 x 9-3/8	1/2 x 1/4 x 3	10.3	6.1

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-164 and G3-165 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.

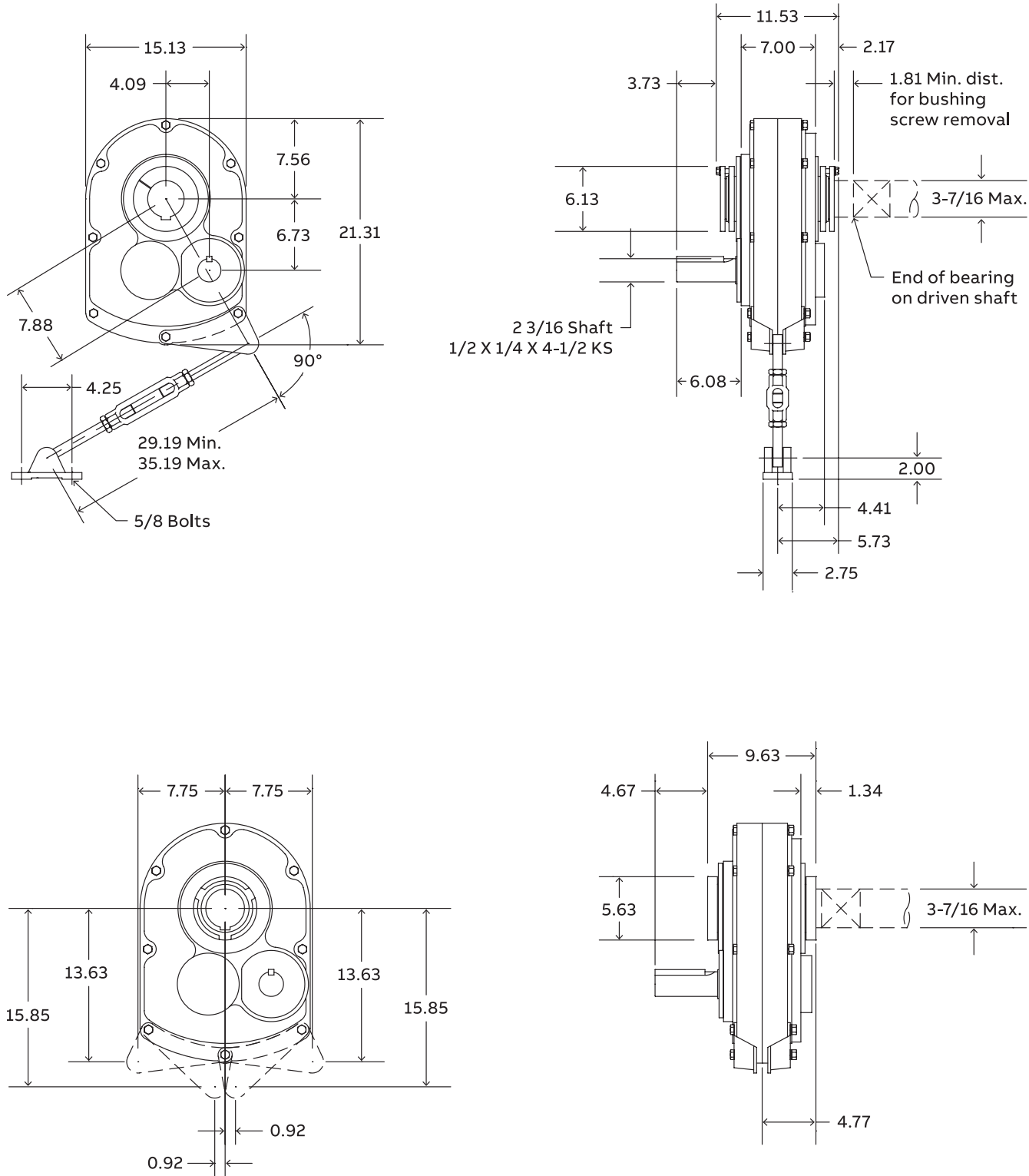
♥ Use with taper bushed reducer only. See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT6A - TXT605

Selection and dimensions

TXT6A – Double reduction taper bushed

All dimensions are in inches.



TXT6A

Selection and dimensions

TXT6A – Double reduction taper bushed

TXT6A taper bushed reducers ■ ○

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

TXT6A straight bore reducers ■ ○

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

Accessories for TXT6A reducers

Description	Part number	Weight lbs.
TA6M Standard motor mount (143T-326T)	246391	99
TA6M Special motor mount (364T) ♣ ♠	246388	110
TA6ML Long motor mount (143T-326T)	246390	100
TAB6 Bottom motor mount (182T-326T) ♠	246392	84
TXT6 Backstop assembly	246092	2.5
TXT6D TA reducer belt guard (143T-326T)	246366	83
TXT6D TA reducer belt guard for long motor mount (143T-326T)	246147	100
TXT6 Cooling fan assembly	272325	3
TXT6 Taconite auxiliary seal kit ♥	272450	17.7
TXT6 Lube kit	LUBEKITXT6	20.8
Dodge OPTIFY sensor	750000	0.5

TXT6 bushing assemblies ●

Stock bore size	Part number		Shaft keyseat required †		Weight	
	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
3-7/16 (Max.)	246268	◆	7/8 x 7/16 x 10-11/16	7/8 x 7/16 x 5-7/8	9.0	–
3 ▲	246283	246427	3/4 x 3/8 x 10-11/16	3/4 x 3/8 x 5-7/8	11.3	4.6
2-15/16 ▲	246267	246426	3/4 x 3/8 x 10-11/16	3/4 x 3/8 x 5-7/8	11.6	6.7
2-7/8 ▲	246266	246425	3/4 x 3/8 x 10-11/16	3/4 x 3/8 x 5-7/8	12.2	6.7
2-11/16 ▲	246265	246424	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 5-7/8	12.9	6.7
2-1/2 ▲	246264	246423	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 3-1/2	14.0	8.2
2-7/16 ▲	246263	246422	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 3-1/2	14.4	8.5
2-1/4 ▲	246262	246421	1/2 x 1/4 x 10-11/16	1/2 x 1/4 x 3-1/2	14.9	9.8
2-3/16 ▲	246261	246420 ♣	1/2 x 1/4 x 10-11/16	1/2 x 1/4 x 3-1/2	15.3	11.0

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-164 and G3-165 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.

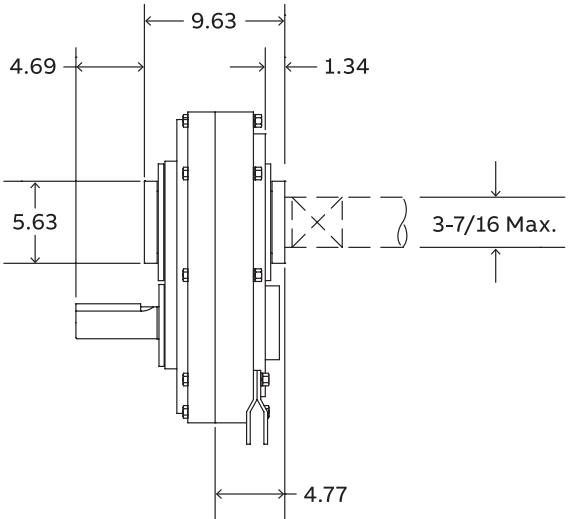
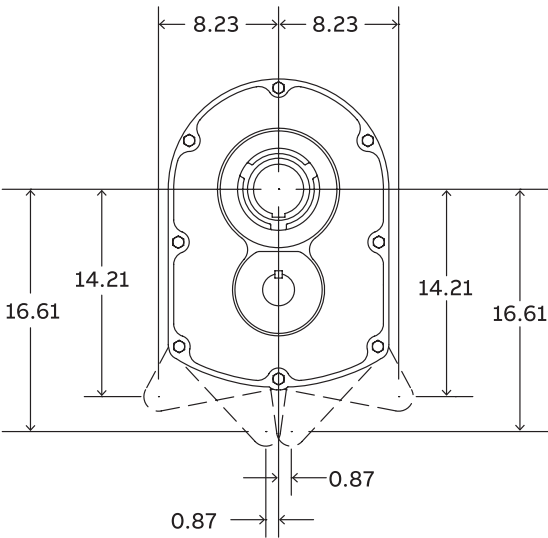
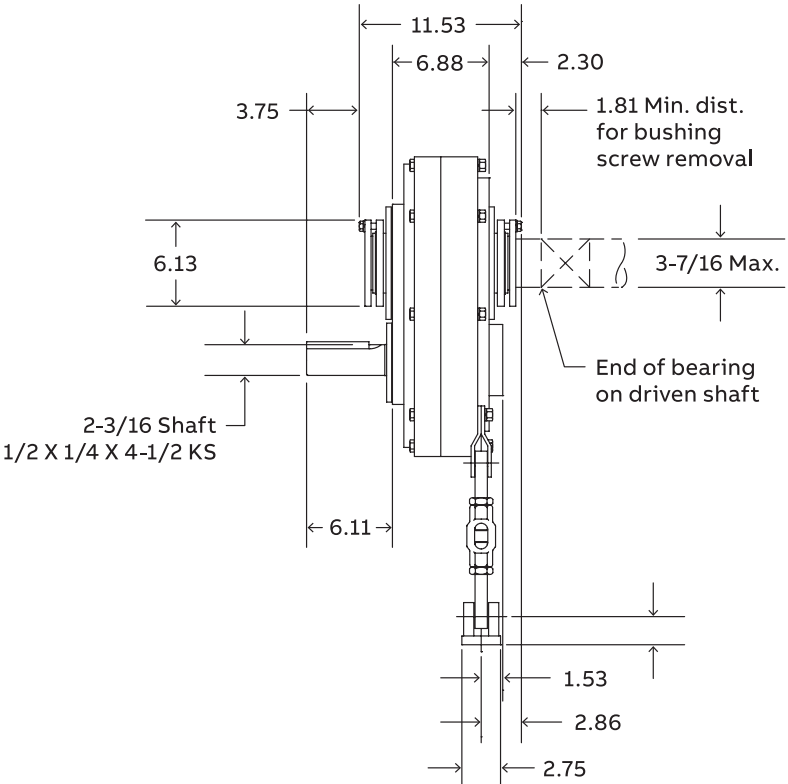
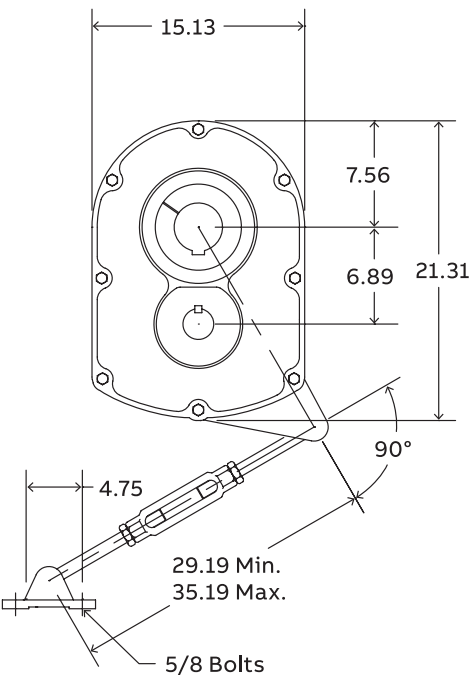
♥ Use with taper bushed reducer only. See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT605

Selection and dimensions

TXT605 – Single reduction taper bushed

All dimensions are in inches.



TXT605

Selection and dimensions

TXT605 – Single reduction taper bushed

TXT605 Taper bushed reducers ■ ○

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

TXT605 Straight bore reducers ■ ○

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

Accessories for TXT605 reducers

Description	Part number	Weight lbs.
TA6M Standard motor mount (143T-326T)	246391	99
TA6ML Long motor mount (143T-326T)	246390	100
TAB6 Bottom motor mount (182T-326T) ♠	246392	84
TXT605 Backstop assembly	246092	2.5
TXT6S TA reducer belt guard (143T-326T)	246368	95
TXT6S TA reducer belt guard for long motor mount (143T-326T) ♣	246132	100
TXT605 Cooling fan assembly ♣	272681	3
TXT605 Taconite auxiliary seal kit ♥	272450	17.7
TXT605 Lube kit	LUBEKITTXT605	24.3
Dodge OPTIFY sensor	750000	0.5

TXT6 Bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight	
		Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
3-7/16	(Max.)	246268	◆	7/8 x 7/16 x 10-11/16	7/8 x 7/16 x 5-7/8	9.0	–
3	▲	246283	246427	3/4 x 3/8 x 10-11/16	3/4 x 3/8 x 5-7/8	11.30	4.6
2-15/16	▲	246267	246426	3/4 x 3/8 x 10-11/16	3/4 x 3/8 x 5-7/8	11.60	6.7
2-7/8	▲	246266	246425	3/4 x 3/8 x 10-11/16	3/4 x 3/8 x 5-7/8	12.20	6.7
2-11/16	▲	246265	246424	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 5-7/8	12.90	6.7
2-1/2	▲	246264	246423	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 3-1/2	14.0	8.2
2-7/16	▲	246263	246422	5/8 x 5/16 x 10-11/16	5/8 x 5/16 x 3-1/2	14.40	8.5
2-1/4	▲	246262	246421	1/2 x 1/4 x 10-11/16	1/2 x 1/4 x 3-1/2	14.90	9.8
2-3/16	▲	246261	246420 ♣	1/2 x 1/4 x 10-11/16	1/2 x 1/4 x 3-1/2	15.30	11.0

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-164 and G3-165 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.

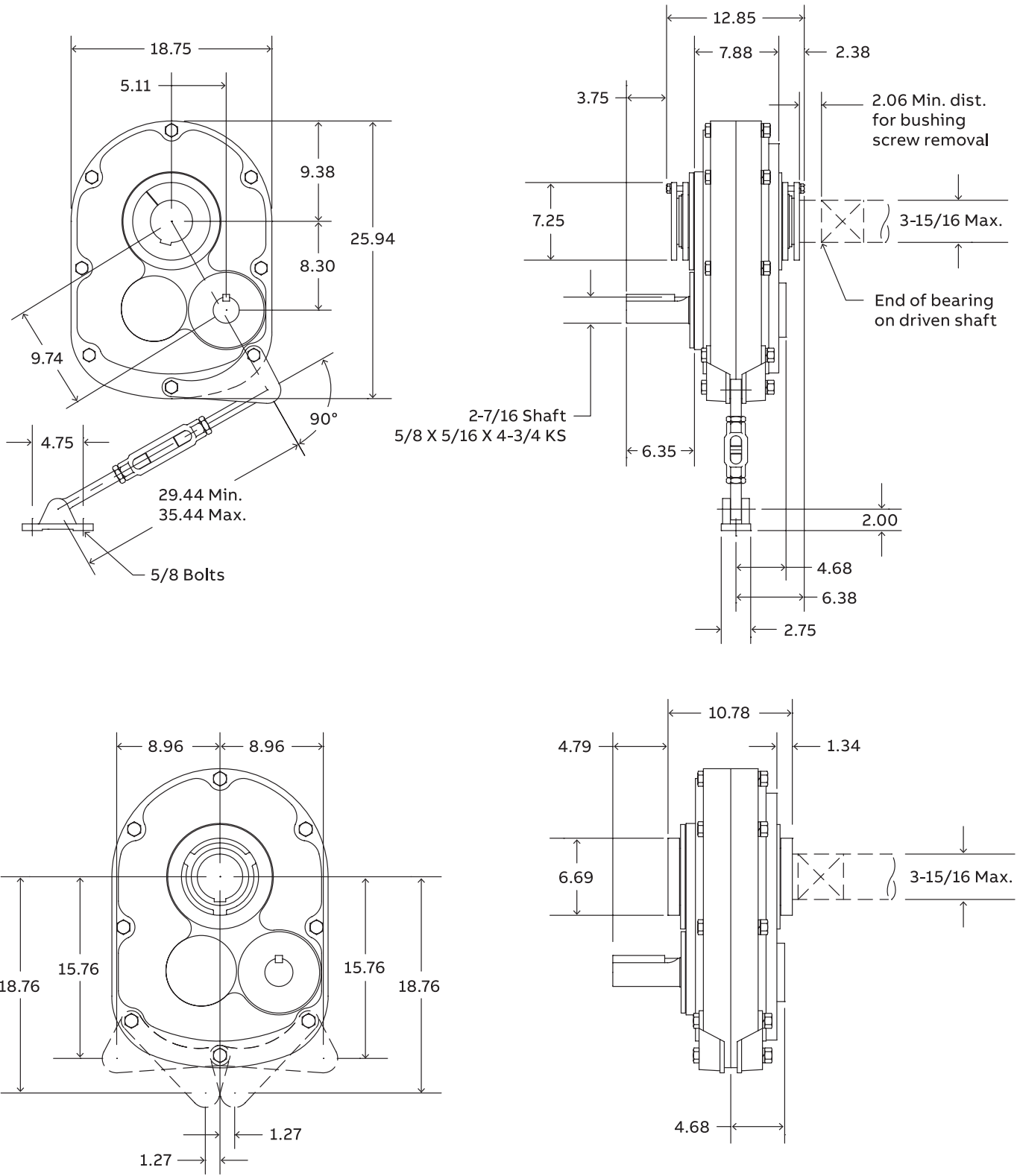
♥ Use with taper bushed reducer only. See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT7A - TXT705

Selection and dimensions

TXT7A – Double reduction taper bushed

All dimensions are in inches.



TXT7A

Selection and dimensions

TXT7A – Double reduction taper bushed

TXT7A taper bushed reducers ■ ○

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

TXT7A straight bore reducers ■ ○

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

Accessories for TXT7A reducers

Description	Part number	Weight lbs.
TA7M Standard motor mount (143T-365T)	247395	110
TA7ML Long motor mount (143T-326T) ♣	247396	100
TAB7 Bottom motor mount (182T-326T) ♣ ♣	247404	105
TXT7 Backstop assembly	247260	2.8
TXT7D TA reducer belt guard (143T-365T)	247390	90
TXT7D TA reducer belt guard for long motor mount (143T-365T) ♣	247152	108
TXT7 Cooling fan assembly	272326	6
TXT7 Taconite auxiliary seal kit ♥	272451	25
TXT7 Lube kit	LUBEKITTXT7	34.7
Dodge OPTIFY sensor	750000	0.5

TXT7 bushing assemblies ●

Stock bore size	Part number		Shaft keyseat required †		Weight	
	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
3-15/16 (Max.)	272136	◆	1 x 1/2 x 11-27/32	1 x 1/2 x 4-7/8	13.8	–
3-7/16 –	272135	247428	7/8 x 7/16 x 11-27/32	7/8 x 7/16 x 6-3/8	16.9	7.8
3-3/16 ▲	272134	247427	3/4 x 3/8 x 11-27/32	3/4 x 3/8 x 6-3/8	19.2	9.0
3 ▲	272133	247426	3/4 x 3/8 x 11-27/32	3/4 x 3/8 x 6-3/8	20.1	10.1
2-15/16 ▲	272132	247425	3/4 x 3/8 x 11-27/32	3/4 x 3/8 x 4-7/8	21.3	10.1
2-11/16 ▲	272147	247422	5/8 x 5/16 x 11-27/32	5/8 x 5/16 x 3-1/2	23.0	14.0
2-7/16 ▲	272125	247420	5/8 x 5/16 x 11-27/32	5/8 x 5/16 x 3-1/2	24.2	14.2

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-164 and G3-165 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.

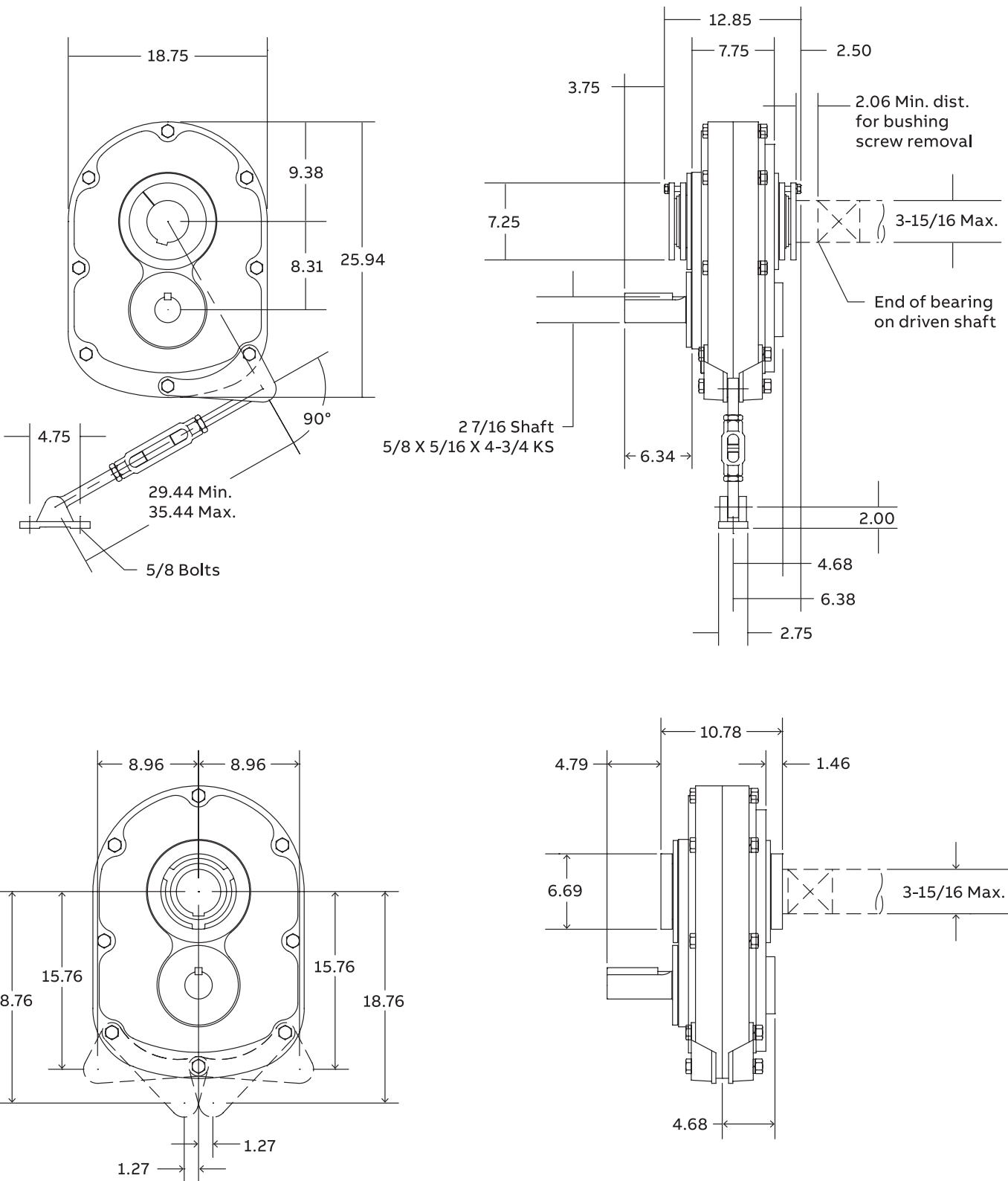
♥ Use with taper bushed reducer only. See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT705

Selection and dimensions

TXT705 – Single reduction taper bushed

All dimensions are in inches.



TXT705

Selection and dimensions

TXT705 – Single reduction taper bushed

TXT705 taper bushed reducers ■ ○

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

TXT705 straight bore reducers ■ ○

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

Accessories for TXT705 reducers

Description	Part number	Weight lbs.
TA7M Standard motor mount (143T-365T)	247395	110
TA7ML Long motor mount (143T-326T) ♣	247396	100
TAB7 Bottom motor mount (182T-326T) ♠ ♣	247404	105
TXT705 Backstop assembly	247260	2.80
TXT7S TA reducer belt guard (143T-365T)	247392	112
TXT7S TA reducer belt guard for long motor mount (143T-365T) ♣	247146	135
TXT705 Cooling fan assembly ♣	272685	6
TXT705 Taconite auxiliary seal kit ♥	272451	25
TXT705 Lube kit	LUBEKITTXT705	39.3
Dodge OPTIFY sensor	750000	0.5

TXT7 bushing assemblies ●

Stock bore size	Part number		Shaft keyseat required †		Weight	
	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
3-15/16 (Max.)	272136	◆	1 x 1/2 x 11-27/32	1 x 1/2 x 4-7/8	13.8	–
3-7/16 –	272135	247428	7/8 x 7/16 x 11-27/32	7/8 x 7/16 x 6-3/8	16.9	7.8
3-3/16 ▲	272134	247427	3/4 x 3/8 x 11-27/32	3/4 x 3/8 x 6-3/8	19.2	9.0
3 ▲	272133	247426	3/4 x 3/8 x 11-27/32	3/4 x 3/8 x 6-3/8	20.1	10.1
2-15/16 ▲	272132	247425	3/4 x 3/8 x 11-27/32	3/4 x 3/8 x 4-7/8	21.3	10.1
2-11/16 ▲	272147	247422	5/8 x 5/16 x 11-27/32	5/8 x 5/16 x 3-1/2	23.0	14.0
2-7/16 ▲	272125	247420	5/8 x 5/16 x 11-27/32	5/8 x 5/16 x 3-1/2	24.2	14.2

♣ Made to order

† Shaft key furnished.

▲ Check the driven shaft and key for strength.

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

○ Stock TXT Reducers are drilled for vertical mounting.

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

■ See pages G3-164 and G3-165 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.

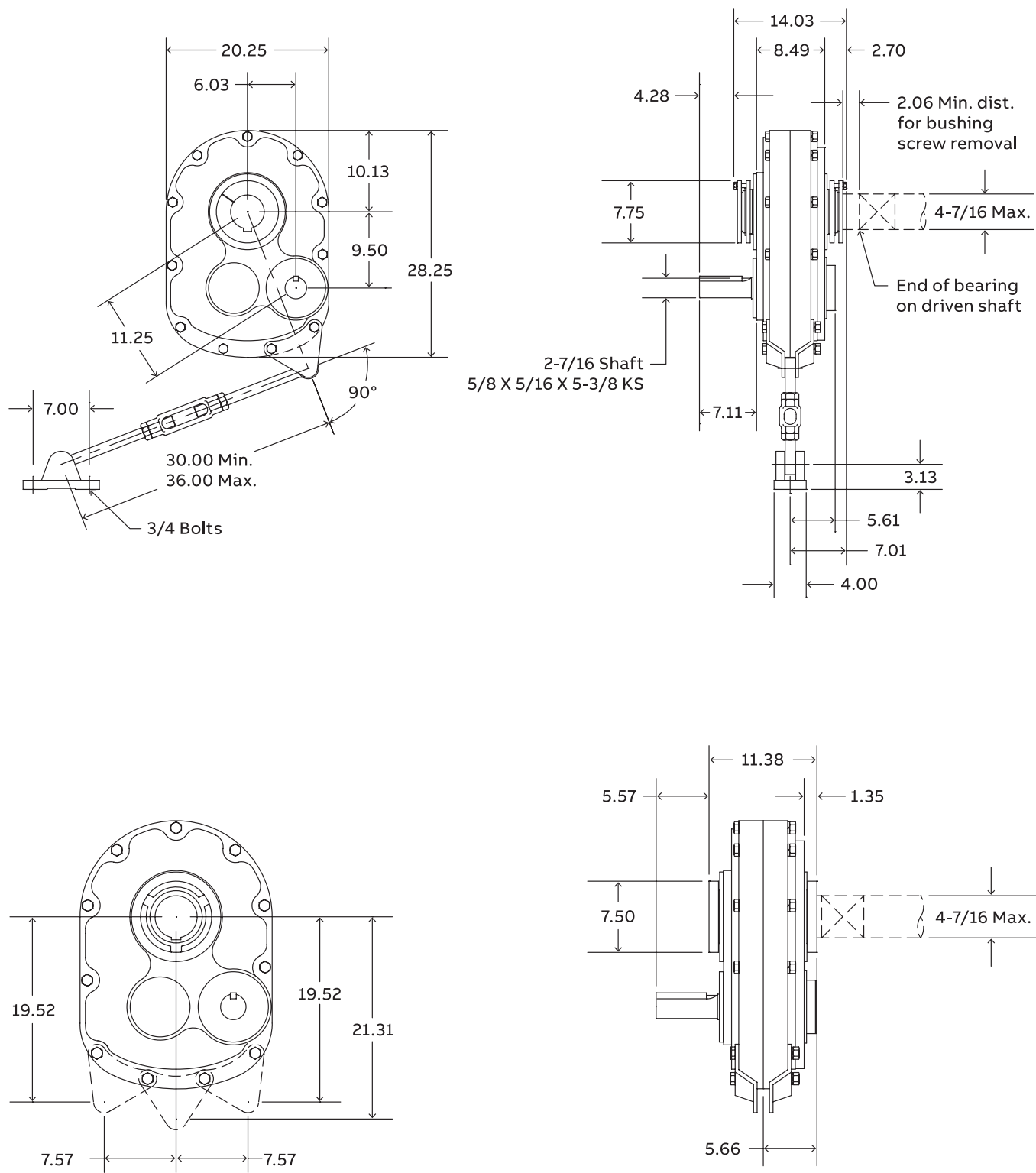
♥ Use with taper bushed reducer only. See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT8A - TXT12

Selection and dimensions

TXT8A – Double reduction taper bushed

All dimensions are in inches.



TXT8A

Selection and dimensions

TXT8A – Double reduction taper bushed

TXT8A taper bushed reducers ■ ○

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

TXT8A straight bore reducers ■ ○

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

Accessories for TXT8A reducers

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

TXT8 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight	
		Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
4-7/16	(Max.)	272035	◆	1 x 1/2 x 13-1/16	1 x 1/2 x 6-7/8	15	–
4-3/16	–	272034	248424	1 x 1/2 x 13-1/16	1 x 1/2 x 6-7/8	17	6.8
3-15/16	–	272033	248423	1 x 1/2 x 13-1/16	1 x 1/2 x 6-7/8	20	8.0
3-7/16	▲	272032	248422	7/8 x 7/16 x 13-1/16	7/8 x 7/16 x 6-7/8	25	12
2-15/16	▲	272048	248420	3/4 x 3/8 x 13-1/16	3/4 x 3/8 x 4-3/8	29	19

- ♣ Made to order
- † Shaft key furnished.
- ▲ Check the driven shaft and key for strength.
- ◆ Preferred bore. No bushing required for this bore size.
- Stock TXT Reducers are drilled for vertical mounting.
- ♠ Dodge standard belt guards will not fit this motor mount.
- See pages G3-164 and G3-165 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 G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT9A

Selection and dimensions

TXT9A – Double reduction taper bushed

All dimensions are in inches.

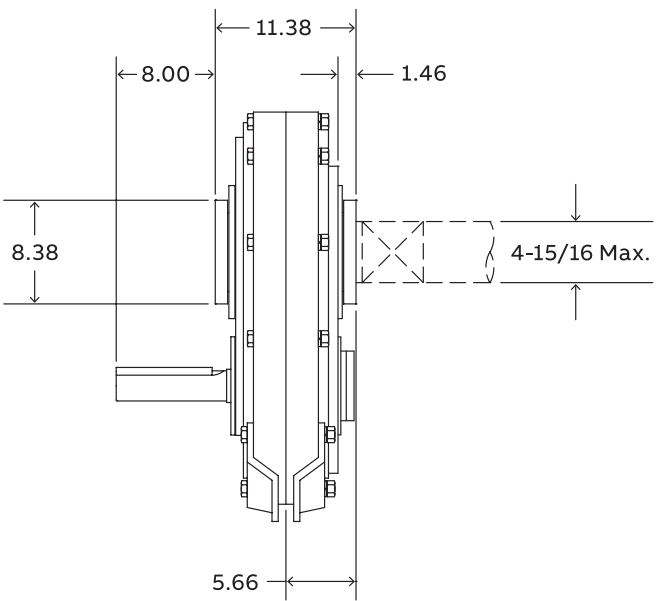
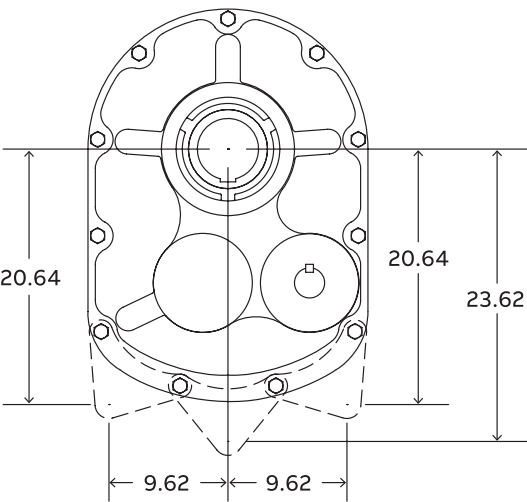
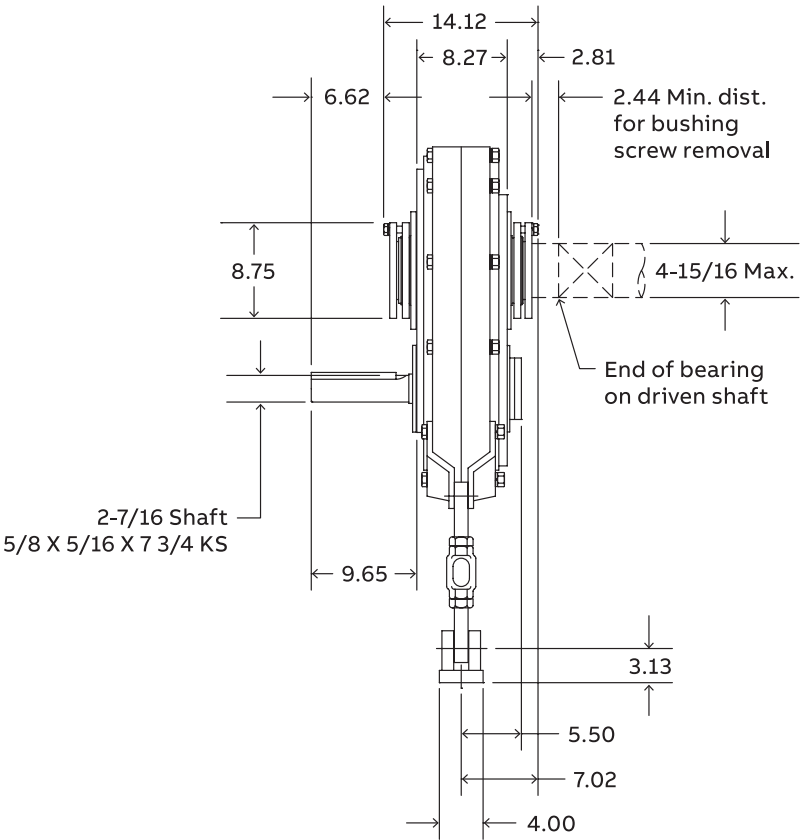
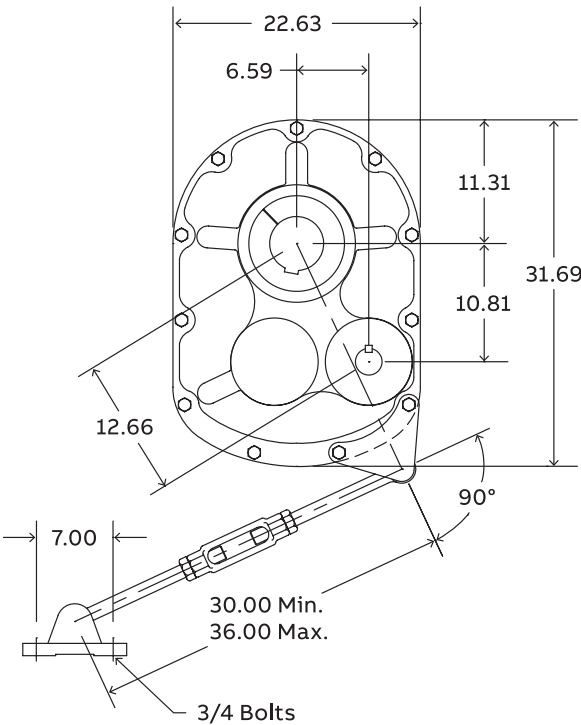
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



TXT9A

Selection and dimensions

TXT9A – Double reduction taper bushed

TXT9A taper bushed reducers ■ ○

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

TXT9A straight bore reducers ■ ○

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

Accessories for TXT9A reducers

Description	Part number	Weight lbs.
TA9 Standard motor mount (213T-365T)	249401	120
TA9 Special motor mount (404T-405T) ♣ ♠	249399	125
TAB9 Bottom motor mount (213T-365T) ♠ ♣	249404	125
TXT9 Backstop assembly	249260	3.8
TXT9D TA reducer belt guard (213T-365T)	249395	125
TXT9 Cooling fan assembly	272328	15
TXT9 Taconite auxiliary seal kit ♥	272453	32.6
TXT9 Lube kit	LUBEKITTXT9	53.2
Dodge OPTIFY sensor	750000	0.5

TXT9 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight	
		Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
4-15/16	(Max.)	272080	◆	1-1/4 x 5/8 x 12-15/16	1-1/4 x 5/8 x 11-3/8	22	–
4-7/16	–	272079	249422	1 x 1/2 x 12-15/16	1 x 1/2 x 11-3/8	27	12.5
3-15/16	▲	272077	249421	1 x 1/2 x 12-15/16	1 x 1/2 x 11-3/8	32.4	26
3-7/16	▲	272056	249420	7/8 x 7/16 x 12-15/16	7/8 x 7/16 x 5	36	28

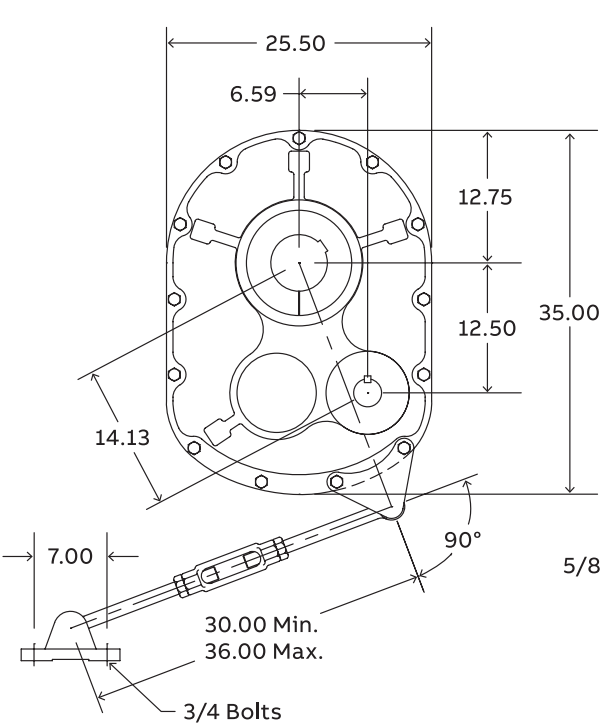
- ♣ Made to order
- † Shaft key furnished.
- ▲ Check the driven shaft and key for strength.
- ◆ Preferred bore. No bushing required for this bore size.
- Stock TXT Reducers are drilled for vertical mounting.
- ♠ Dodge standard belt guards will not fit this motor mount.
- See pages G3-164 and G3-165 for 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 G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT10A

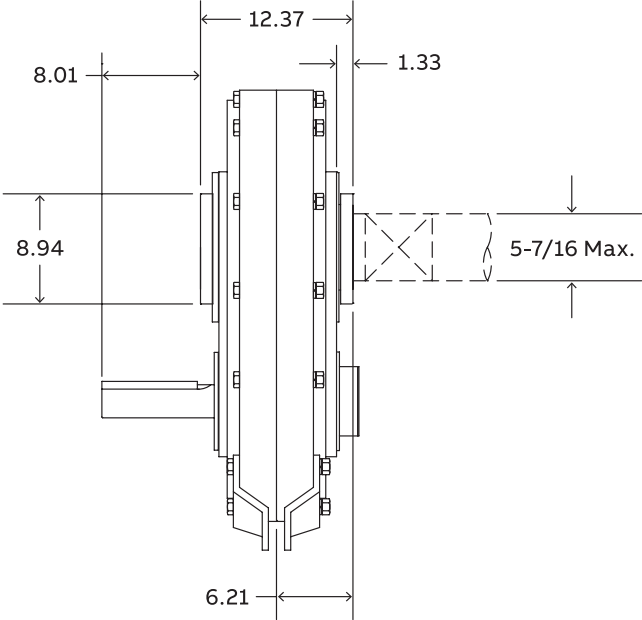
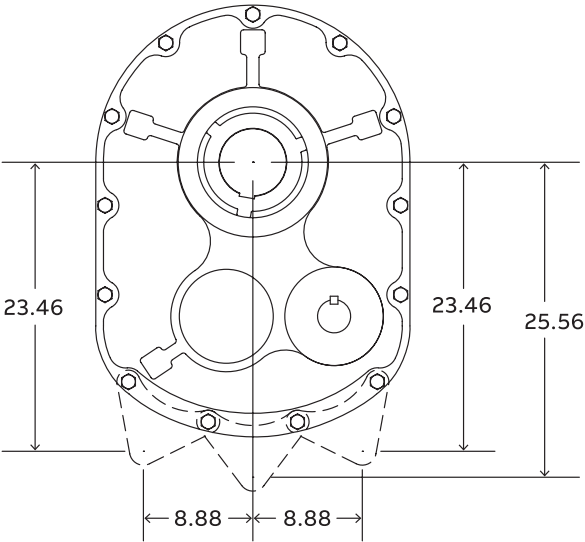
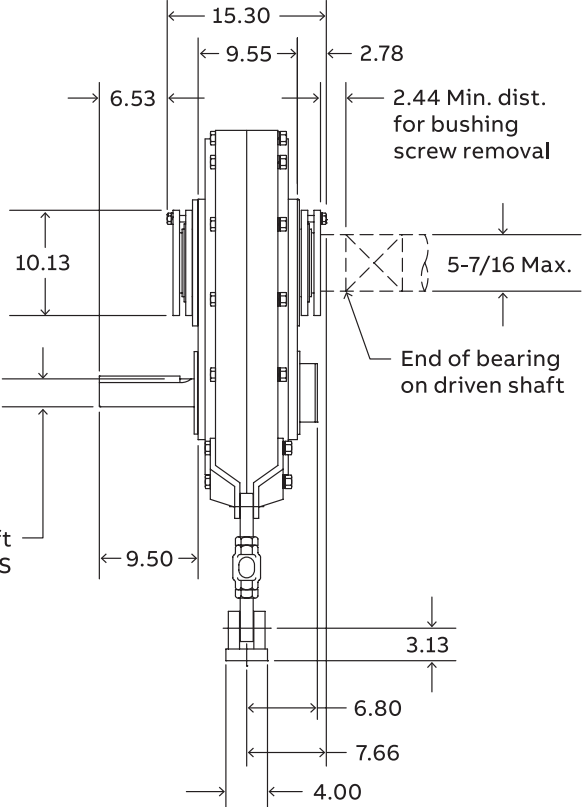
Selection and dimensions

TXT10A – Double reduction taper bushed

All dimensions are in inches.



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



TXT10A

Selection and dimensions

TXT10A – Double reduction taper bushed

TXT10A taper bushed reducers ■ ○

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

TXT10A straight bore reducers ■ ○

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

Accessories for TXT10A reducers

Description	Part number	Weight lbs.
TA10 Standard motor mount (254T-365T)	250401	130
TA10 Special motor mount (404T-445T)	250404	150
TAB10 Bottom motor mount (254T-365T) ♠ ♣	250411	150
TXT10 Backstop assembly	250260	5.60
TXT10D TA reducer belt guard (254T-445T)	250395	140
TXT10 Cooling fan assembly	272329	15
TXT10 Taconite auxiliary seal kit ♥	272454	35.80
TXT10 Lube kit	LUBEKITTXT10	89.1
Dodge OPTIFY sensor	750000	0.5

TXT10 bushing assemblies ●

Stock bore size		Part number		Shaft keyseat required †		Weight	
		Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing	Tapered bushing	Straight bore bushing
5-7/16	(Max.)	272240	◆	1-1/4 x 5/8 x 14-1/16	1-1/4 x 5/8 x 12-3/8	26.50	–
4-15/16	–	272239	250422	1-1/4 x 5/8 x 14-1/16	1-1/4 x 5/8 x 12-3/8	33.50	12.90
4-7/16	▲	272238	250421	1 x 1/2 x 14-1/16	1 x 1/2 x 12-3/8	38.40	31.40
3-15/16	▲	272214	250420	1 x 1/2 x 14-1/16	1 x 1/2 x 6-5/8	44	33

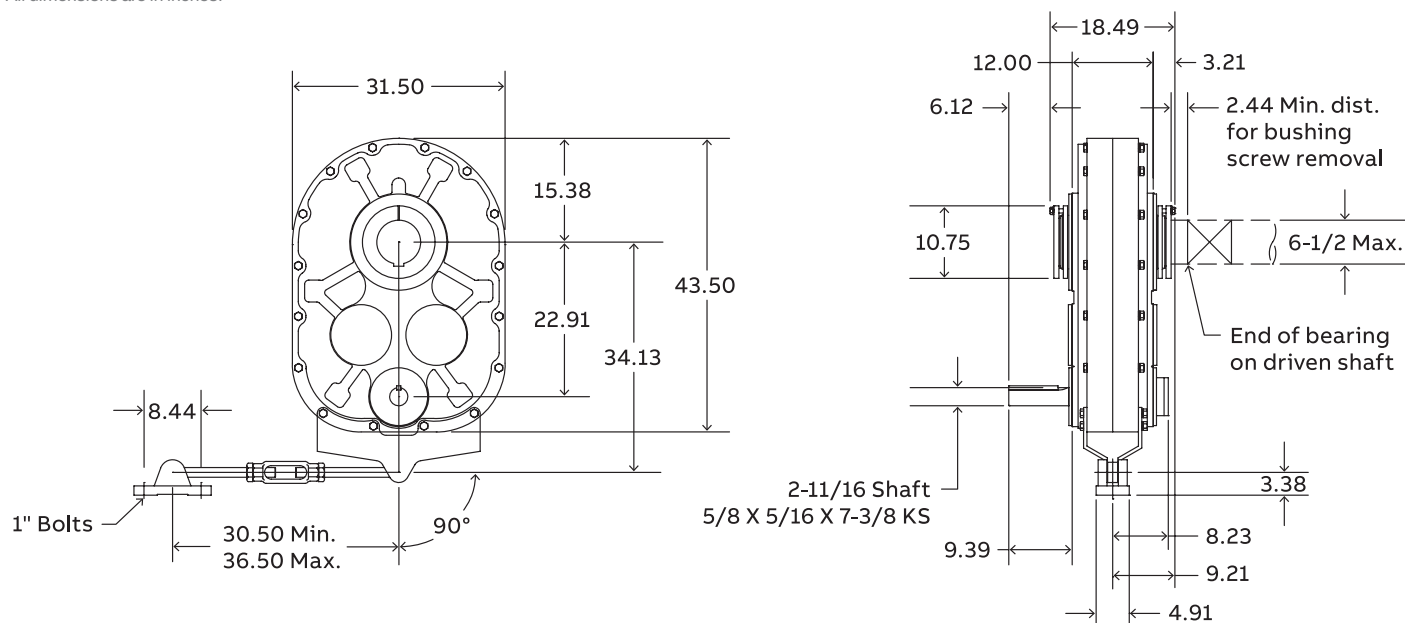
- ♣ Made to order
- † Shaft key furnished.
- ▲ Check the driven shaft and key for strength.
- ◆ Preferred bore. No bushing required for this bore size.
- Stock TXT Reducers are drilled for vertical mounting.
- ♠ Dodge standard belt guards will not fit this motor mount.
- See pages G3-164 and G3-165 for 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 G3-167 and G3-168 for drill and tap information required to mount to reducer.

TXT12

Selection and dimensions

TXT12 – Double reduction taper bushed

All dimensions are in inches.



TXT12 taper bushed reducers □

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

Accessories for TXT12 reducers

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

TXT12 bushing assemblies ●

Stock bore size	Part number	Shaft keyseat required †	Weight
6-1/2 (Max.)	272219	1-1/2 x 3/4 x 17-5/16	37.4
6-7/16	272218	1-1/2 x 3/4 x 17-5/16	38.4
6	272217	1-1/2 x 3/4 x 17-5/16	46.2
5-15/16	272216	1-1/2 x 3/4 x 17-5/16	47.3
5-7/16 ▲	272215	1-1/4 x 5/8 x 17-5/16	53.1

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.

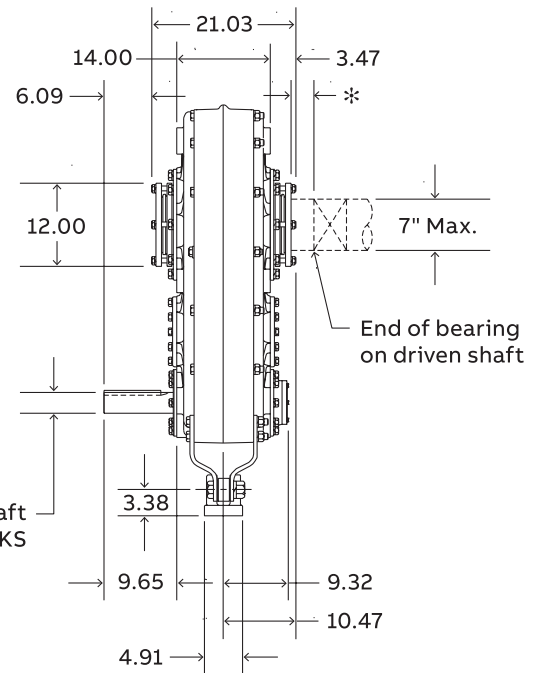
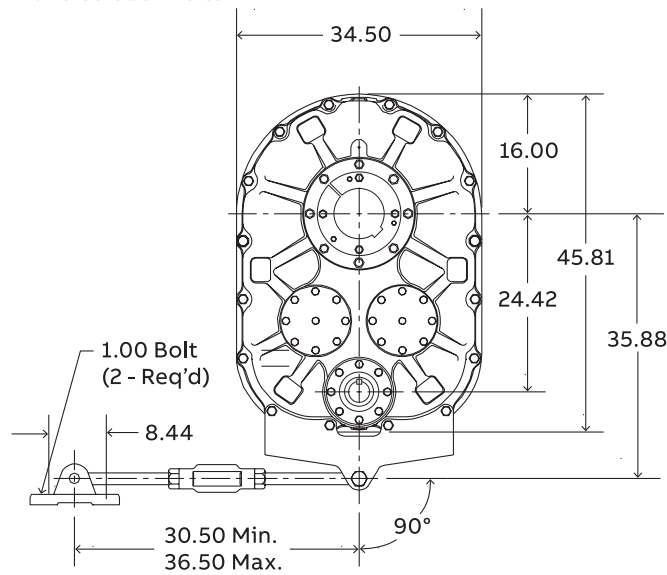
□ Reducers are supplied already drilled and tapped for vertical mounting and flange mounting. See pages G3-164 and G3-165 for Flange Mounting dimensions

TDT13

Selection and dimensions

TDT13 – Double reduction taper bushed

All dimensions are in inches.



* 2.69" Minimum distance for bushing screw removal

TDT13 taper bushed reducers □

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

Accessories for TDT13 reducers

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

TDT13 bushing assemblies ●

Stock bore size	Part number	Shaft keyseat required †	Weight
7 (Max.)	272257	1-3/4 x 3/4 x 19-9/16	74
6-1/2 ▲	272292 ♣	1-1/2 x 3/4 x 19-9/16	92
6 ▲	272291 ♣	1-1/2 x 3/4 x 19-9/16	111
5-15/16 ▲	272290	1-1/2 x 3/4 x 19-9/16	113

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.

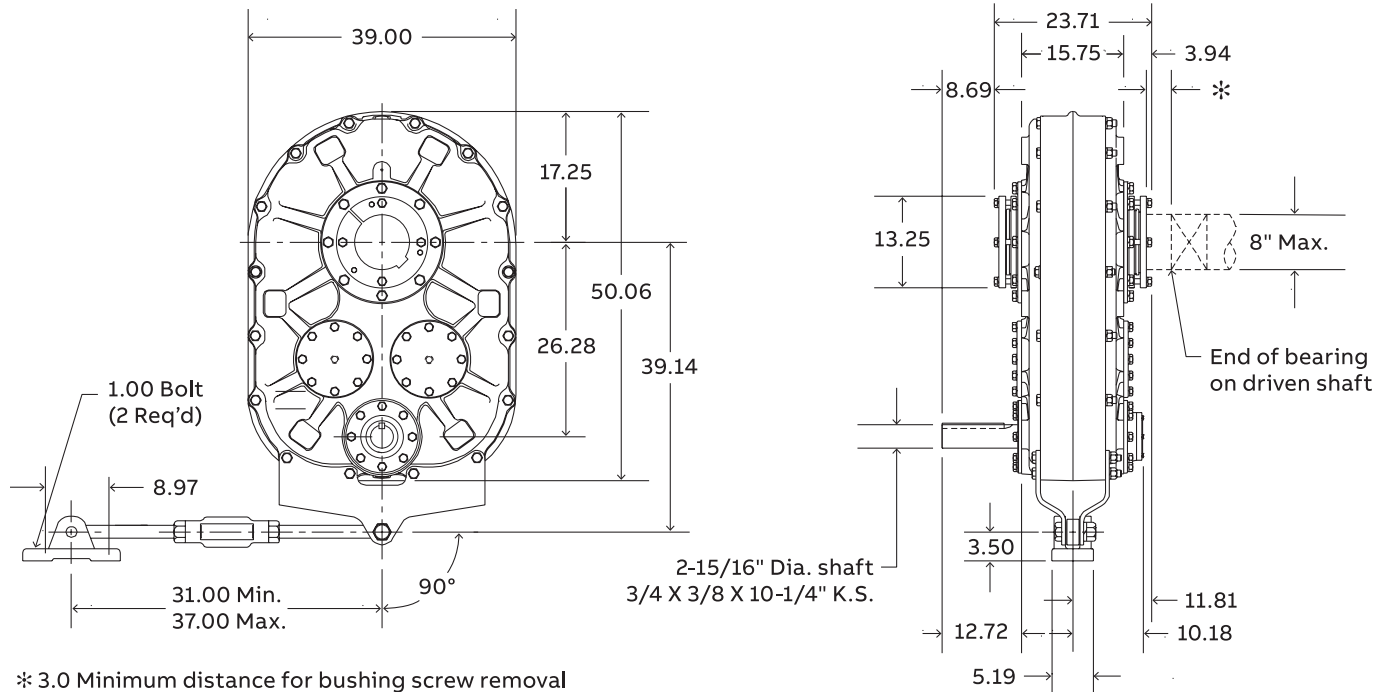
□ Reducers are supplied already drilled and tapped for vertical mounting and flange mounting. See pages G3-164 and G3-165 for Flange Mounting dimensions

TDT14

Selection and dimensions

TDT14 – Double reduction taper bushed

All dimensions are in inches.



TDT14 taper bushed reducers

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

Accessories for TDT14 reducers

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

TDT14 bushing assemblies

Stock bore size	Part number	Shaft keyseat required †	Weight
8 (Max.)	272194	2 x 3/4 x 22-1/4	135
7	272193	1-3/4 x 3/4 x 22-1/4	144
6-1/2	272192	1-1/2 x 3/4 x 22-1/4	162.1
6	272191	1-1/2 x 3/4 x 22-1/4	188

All dimensions are in inches.

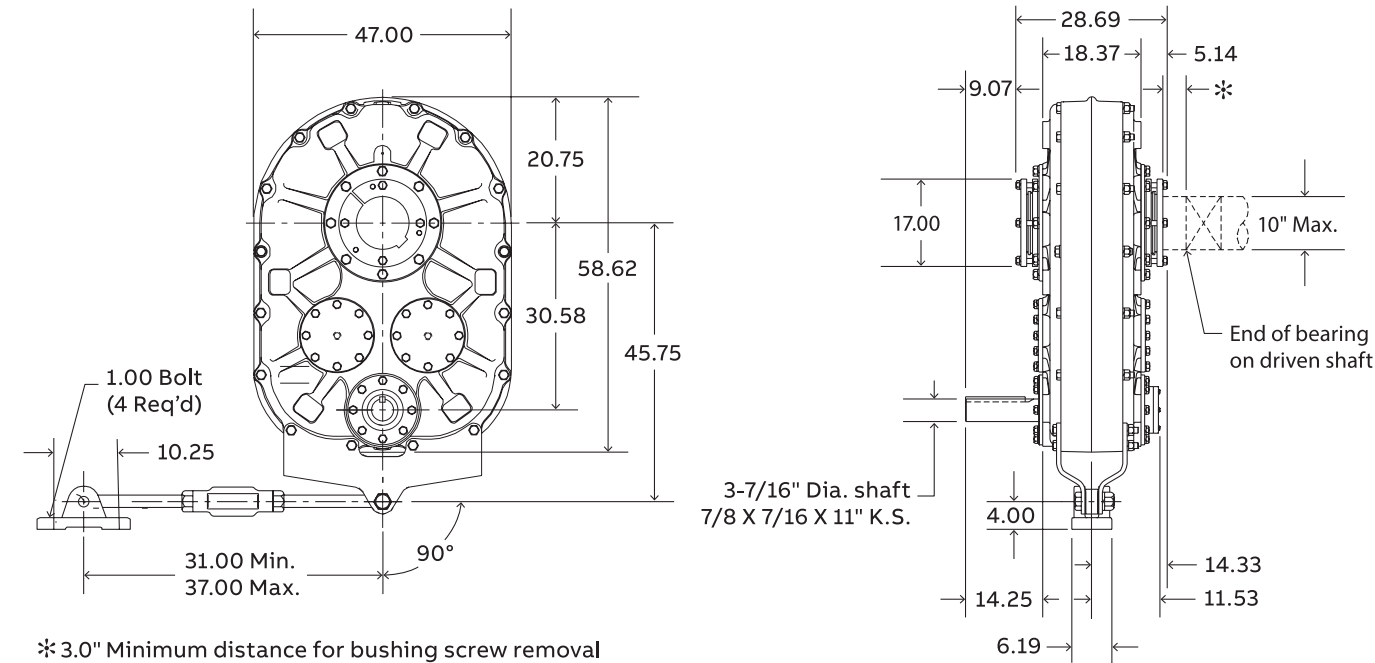
- ♣ Made to order
- † Shaft key furnished.
- ▲ Check the driven shaft and key for strength.
- Taper bushed reducers require bushing for all bore sizes.
- Reducers are supplied already drilled and tapped for vertical mounting and flange mounting. See pages G3-164 and G3-165 for Flange Mounting dimensions

TDT15

Selection and dimensions

TDT15 – Double reduction taper bushed

All dimensions are in inches.



TDT15 taper bushed reducers

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

Accessories for TDT15 reducers

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

TDT15 bushing assemblies

Stock bore size	Part number	Shaft keyseat required †	Weight
10 (Max.)	272395	2-1/2 x 7/8 x 27-5/16	202
9	272396	2 x 3/4 x 27-5/16	267
8-1/2	272397	2 x 3/4 x 27-5/16	300
8	272398	2 x 3/4 x 27-5/16	307

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 G3-164 and G3-165 for Flange Mounting dimensions

Modifications and Accessories

Torque-Arm shaft mount speed reducers

Table 5 - Dodge Torque-Arm reducers and accessories compatibility

TXT reducer	Maximum bore	AGMA code	Input Hp @ 75 RPM output 15,25:1	Input Hp @100 RPM output 5:1	Taper bushed	Straight bore	Hydroil style	Vertical style	Motor mount	Backstop	Taconite auxiliary seals	Belt guards
TXT1	1-7/16"	107	4.15	4.49	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT2	1-15/16"	115	7.52	7.70	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT3	2-3/16"	203	12.7	11.7	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT4	2-7/16"	207	19.3	19.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT5	2-15/16"	215	29.9	25.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT6	3-7/16"	307	50.3	51.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT7	3-15/16"	315	72.3	87.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TXT8	4-7/16"	407	106.9	111.0	Yes	Yes	–	Yes	Yes	Yes	Yes	Yes
TXT9	4-15/16"	415	154.7	140.0	Yes	Yes	–	Yes	Yes	Yes	Yes	Yes
TXT10	5-7/16"	507	216.0	–	Yes	Yes	–	Yes	Yes	Yes	Yes	Yes
TXT12	6-1/2"	608	275.0	–	Yes	–	–	Yes	Yes	Yes	Yes	Yes
TDT13	7"	700	374.0	–	Yes	–	–	Yes	Yes	Yes	Yes	Yes
TDT14	8"	800	561.0	–	Yes	–	–	Yes	Yes	Yes	Yes	Yes
TDT15	10"	1000	–	–	Yes	–	–	Yes	Yes	Yes	Yes	Yes

Table 6 - Dodge screw conveyor drive reducers and accessories compatibility

SCXT reducer	AGMA code	Input Hp @ 75 RPM output 15,25:1	Input Hp @100 RPM output 5:1	Hydroil style	Drive shafts	Adapter	Motor mount	Taconite auxiliary seals	Belt guards
SCXT1	107	4.15	4.49	Yes	Yes	Yes	Yes	Yes	Yes
SCXT2	115	7.52	7.70	Yes	Yes	Yes	Yes	Yes	Yes
SCXT3	203	12.70	11.70	Yes	Yes	Yes	Yes	Yes	Yes
SCXT4	207	19.30	19.60	Yes	Yes	Yes	Yes	Yes	Yes
SCXT5	215	29.90	25.00	Yes	Yes	Yes	Yes	Yes	Yes
SCXT6	307	50.30	51.60	Yes	Yes	Yes	Yes	Yes	Yes
SCXT7	315	72.30	87.40	Yes	Yes	Yes	Yes	Yes	Yes
SCXT8	407	106.90	111.00	–	Yes	Yes	Yes	Yes	Yes

Table 7 – NEMA motor information (1750 RPM)

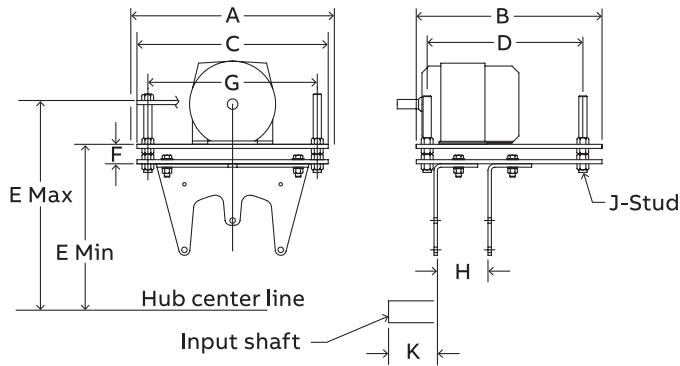
Horsepower	NEMA motor frame	Shaft diameter	Minimum sheave diameters
1	143T	7/8	2.2
1-1/2	145T	7/8	2.4
2	145T	7/8	2.4
3	182T	1-1/8	2.4
5	184T	1-1/8	3.0
7-1/2	213T	1-3/8	3.0
10	215T	1-3/8	3.8
15	254T	1-5/8	4.4
20	256T	1-5/8	4.4
25	284T	1-7/8	4.4
30	286T	1-7/8	5.2
40	324T	2-1/8	6.0
50	326T	2-1/8	6.8
60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

Table 8 - Minimum sheave diameters for Dodge Torque-Arm reducers

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

Motor mounts

Modifications and Accessories



TA motor mounts

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

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

All motor mount fasteners are supplied with zinc-plated finish as standard. Bolt hole configuration will also allow this mount to fasten to the top of a screw conveyor drive reducer of equivalent size.

Torque-Arm motor mounts - TA1M through TA7M

Motor mount no. ■	Part number ●	Wt.	Reducer size	NEMA motor frame	A	B	C	D	E ♦		G	H	J	K
									Min	Max				
TA1M	241391	37	TXT1A	56T - 215T	14.63	11.00	13.50	9.25	10.03	14.18	12.00	3.38	5/8 x 7	3.88
			TXT2A						10.59	14.75				4.18
TA3M	243391	40	TXT3B ▲	56T - 215T	14.63	11.00	13.50	9.25	11.59	15.78	12.00	4.25	5/8 x 7	4.88
	243393 ▲	70		254T - 256T	18.63	17.00	17.50	14.25	11.59	15.78	15.50		3/4 x 8	
TA4M	244391	75	TXT4B	143T - 286T	18.63	17.00	17.50	14.25	11.96	16.73	15.50	4.63	3/4 x 8	6.13
TA5M	245391	76	TXT5C ♣	143T - 286T	18.63	17.00	17.50	14.25	12.53	17.28	15.50	4.13	3/4 x 8	6.65
	245393 ▲ ♣			324T - 326T	20.50	18.50	19.25	16.50	12.53	17.28	17.50		3/4 x 8	
TA6M	246391	99	TXT6A	143T - 326T	20.50	18.50	19.25	16.50	14.56	19.31	17.50	4.50	3/4 x 8	7.31
TA7M	247395	110	TXT7A	143T - 365T	22.50	19.00	21.25	16.50	17.62	22.13	19.25	4.75	1 x 9	7.81

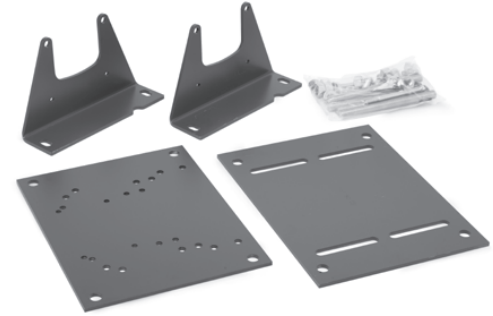
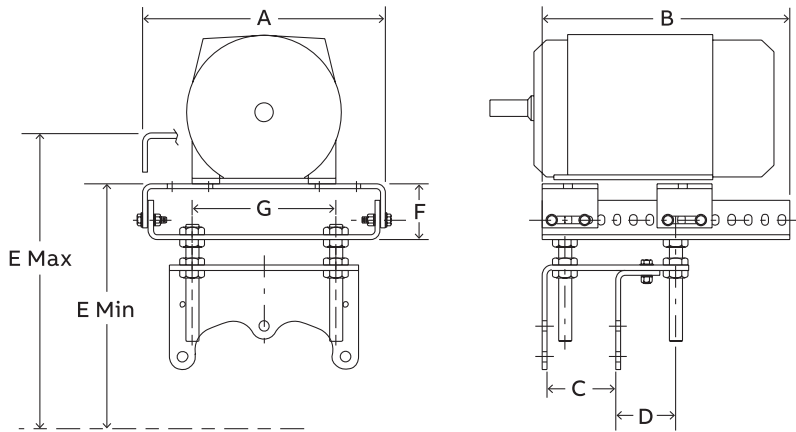
V-belt drive center distances for TA1M through TA7M Torque-Arm motor mounts

Motor mount no.	Reducer size	Center distances for various NEMA motor frames															
		56T		143T&145T		182T&184T		213T&215T		254T&256T		284T&286T		324T&326T		364T&365T	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
TA1M	TXT1A	17.6	21.0	17.6	21.0	18.5	22.0	19.3	22.7	-	-	-	-	-	-	-	-
	TXT2A	18.7	22.1	18.7	22.1	19.7	23.1	20.5	23.9	-	-	-	-	-	-	-	-
TA3M	TXT3B	20.2	23.6	20.2	23.6	21.2	24.6	22.0	25.3	23.0	26.3	-	-	-	-	-	-
TA4M	TXT4B	-	-	21.2	25.2	22.2	26.2	23.0	26.9	23.9	27.9	24.7	28.7	-	-	-	-
TA5M	TXT5C	-	-	22.7	26.6	23.7	27.6	24.4	28.4	25.4	29.4	26.2	30.1	27.2	31.1	-	-
TA6M	TXT6A	-	-	25.9	29.7	26.9	30.7	27.6	31.4	28.6	32.4	29.4	33.2	30.4	34.2	-	-
TA7M	TXT7A	-	-	30.6	34.4	31.6	35.4	32.4	36.2	33.4	37.2	34.1	37.9	35.1	38.9	36.1	40.0

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

Motor mounts

Modifications and Accessories



Torque-Arm motor mounts - TA8 through TA15

Motor mount no.	Part number	Wt.	Reducer size	Nominal ratio	NEMA motor frame	A	B	C	D	E ♦		F	G
										Min	Max		
TA8	248401 ■	119	TXT8A	15, 25 5	213T - 365T 254T - 365T	18.63	19	5.25	4.36	19.4	23.9	4.25	11
TA9	249401 ■	120	TXT9A	15, 26 5	213T - 365T 284T - 365T	18.63	19	5.25	4.63	21.46	25.9	4.25	11
	249399 ♣ ▲	125		15, 26	404T - 445T	25.06	24			20.21	24.71	3.81	
TA10	250401	130	TXT10A	15, 24	254T - 365T	18.63	19	6	3.88	22.6	27.09	4.25	11
	250404	200			404T - 445T	25.06	24	6	3.88	21.86	27.38	3.81	18.5
TA12	272310	255	TXT12	15, 25	286T - 445T	25.06	24	7.63	5.25	25.65	31.13	3.81	18.5
TA13	272313	290	TDT13	25	324T - 445T	25.06	24	8.75	8.63	25.65	31.13	3.81	18.5
TA14	272318	295	TDT14	25	324T - 447T	25.06	24	10	7.38	25.81	31.31	3.81	18.5
TA15	272392 ♣	320	TDT15	30	405T - 449T	25.06	24	12.63	5.75	33.5	39	3.81	18.5

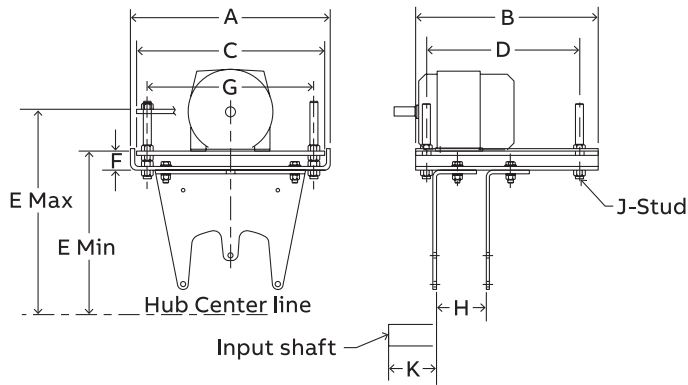
V-belt drive center distances for TA8 through TA15 Torque-Arm motor mounts

Motor mount no.	Reducer size	Nominal ratio	Center distances for various NEMA motor frames													
			213T&215T		254T&256T		284T&286T		324T&326T		364T&365T		404T&405T		444T,445T,447T, or 449T	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
TA8	TXT8A	15, 25	35.5	40.5	36.4	41.2	37.2	42.2	38.2	43.2	39.2	44.2	-	-	-	-
		5	-	-	37.2	41.5	37.9	42.3	38.9	43.3	39.9	44.3	-	-	-	-
TA9	TXT9A	15, 26	38.0	43.0	39.0	44.0	39.8	44.7	40.7	45.7	41.7	46.7	42.8	47.7	-	-
		5	-	-	-	-	40.5	44.8	41.5	45.8	42.5	46.8	43.5	47.8	-	-
TA10	TXT10A	15, 24	-	-	42.6	47.5	43.3	48.2	44.3	49.2	45.3	50.2	45.8	50.7	47.3	51.7
TA12	TXT12	15, 25	-	-	-	-	57.0	61.0	57.7	62.1	58.7	63.1	59.7	64.1	60.7	65.1
TA13	TDT13	25	-	-	-	-	-	-	59.7	65.1	60.7	66.1	61.7	67.1	62.0	66.7
TA14	TDT14	25	-	-	-	-	-	-	61.7	67.1	62.7	68.1	63.7	69.1	64.7	70.1
TA15	TDT15	30	-	-	-	-	-	-	-	-	-	-	75.0	80.5	76.0	81.5

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

Motor mounts

Modifications and Accessories



TAML Long motor mounts

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

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

Bolt hole configuration will also allow this mount to fasten to the top of a screw conveyor drive reducer of equivalent size.

Torque-Arm long motor mounts - TA3ML through TA7ML ▲†

Motor mount no. ■	Part number ●	Wt.	Reducer size	NEMA motor frame	A	B	C	D	E ◆		F	G	H	J	K
									Min	Max					
TA3ML	243392 ♣	42	TXT3B	56T - 215T	14.63	11.00	13.50	9.25	14.59	18.72	1.59	12.00	4.25	5/8 x 7	4.88
TA4ML	244392	78	TXT4B	143T - 286T	18.63	17.00	17.50	14.25	16.46	21.20	1.78	15.50	4.63	3/4 x 8	6.13
TA5ML	245392	80	TXT5C	143T - 286T	18.63	17.00	17.50	14.25	19.28	24.03	1.84	15.50	4.13	3/4 x 8	6.65
TA6ML	246390	102	TXT6A	143T - 326T	20.50	18.50	19.25	16.50	28.56	33.30	1.84	17.50	4.50	3/4 x 8	7.31
TA7ML	247396 ♣	115	TXT7A	143T - 326T	22.50	19.00	21.25	16.50	32.46	37.20	1.84	19.25	4.75	3/4 x 8	7.81

V-belt drive center distances for TA3ML through TA7ML Torque-Arm long motor mounts

Motor mount no.	Reducer size	Center distances for various NEMA motor frames													
		56T		143T&145T		182T&184T		213T&215T		254T&256T		284T&286T		324T&326T	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
TA3ML	TXT3B	23.1	26.5	23.1	26.5	24.1	27.5	24.9	28.3	—	—	—	—	—	—
TA4ML	TXT4B	—	—	25.6	30.6	26.7	30.6	27.4	31.4	28.3	32.4	29.2	33.1	—	—
TA5ML	TXT5C	—	—	29.4	33.4	30.4	34.3	31.1	35.1	32.1	36.1	32.9	36.8	—	—
TA6ML	TXT6A	—	—	—	—	40.8	44.6	41.6	45.4	42.6	46.4	43.3	47.1	44.3	48.1
TA7ML	TXT7A	—	—	—	—	47.0	50.8	47.7	51.5	48.7	52.5	49.5	53.3	50.5	54.3

Clearance dimensions ■

Reducer	Motor mount	Clearance dimensions (1)
TXT1A	TA1M	7.63
TXT2A	TA1M	8.25
TXT3B	TA3M	9.25
TXT4B	TA4M	9.44
TXT5C	TA5M	10.00
TXT6A	TA6M	11.97
XT7A	TA7M	14.38

Clearance dimensions ■

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

♣ Made to order

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

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

◆ Provides for V-belt adjustment

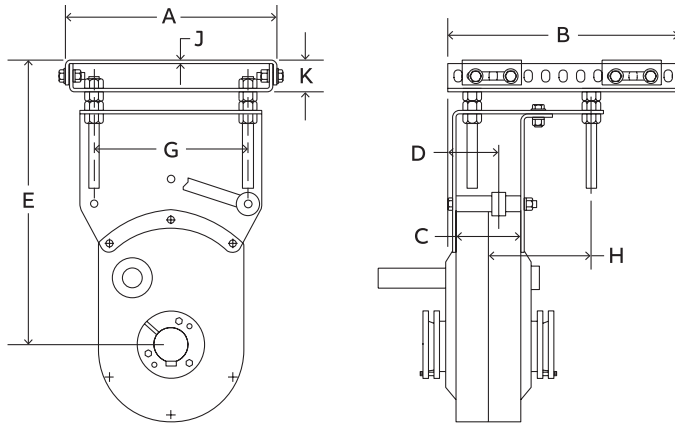
■ Can be used with any ratio Torque-Arm reducer (5, 9, 15, 25)

● Necessary mounting bolts are included

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

Motor mounts

Modifications and Accessories



TAB Bottom motor mounts

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

Torque-Arm bottom motor mounts - TAB 1 through TAB 10 ▲

Motor mount no.	Part number	Wt.	Reducer size	Nominal ratio	NEMA motor frame	A	B	C	D	E ♦		G	H	J	K
										Min	Max				
TAB1	241421 ♣	40	TXT1A	5, 9, 15, 25	56T - 215T	12-1/8	11-1/2	3-3/8	2-43/64	14-17/64	17-61/64	8	5-25/32	1/4	2-3/8
TAB2	242421 ♣	45	TXT2A	5, 9, 15, 25	56T - 215T	12-1/8	11-1/2	3-3/8	2-43/64	14-29/32	18-19/32	8	5-25/32	1/4	2-3/8
TAB3	243404 ♣	60	TXT3B	5, 9, 15, 25	143T - 286T	15-1/8	16-1/2	4-1/4	3-15/32	19-1/4	23-7/8	11	5-13/32	1/4	2-3/8
TAB4	244404 ♣	65	TXT4B	5, 9, 15, 25	143T - 145T 182T - 326T	15-1/8	16-1/2	4-5/8	5-13/32 3-21/32	20-13/32	25-1/32	11	5-1/32	1/4	2-3/8
TAB5	245405	70	TXT5C	5, 9, 15, 25	143T - 145T 182T - 326T	15-1/8	16-1/2	4-1/8	5-21/64 3-37/64	21-15/32	26-3/32	11	5-17/32	1/4	2-3/8
TAB6	246392	75	TXT6A	5, 9, 15, 25	182T - 215T 254T - 326T	15-1/8	16-1/2	4-1/2	5-5/32 3-13/32	24-1/4	28-13/16	11	5-17/16	1/4	2-3/8
TAB7	247404 ♣	85	TXT7A	5, 9, 15, 25	182T - 215T 254T - 326T	15-1/8	16-1/2	4-3/4	5-1/2 3-3/4	27-3/4	32-1/4	11	5-1/8	1/4	2-3/8
TAB8	248406 ♣	90	TXT8A	5, 15, 25	213T - 256T 284T - 365T	15-1/8	19	5-1/4	3-5/8 3-7/8	33-13/32	37-25/32	11	4-5/8	3/8	4-1/4
TAB9	249404 ♣	95	TXT9A	5, 15, 26	213T - 256T 284T - 365T	18-5/8	19	5-1/4	5-5/8 3-7/8	34-29/32	39-9/32	11	4-5/8	3/8	4-1/4
TAB10	250411 ♣	105	TXT10A	15, 24	254T - 365T	25-1/16	24	6	4-23/32	36-3/32	41-17/32	18-1/2	4-1/8	3/8	3-13/16

V-belt drive center distances for Torque-Arm bottom motor mounts

Motor mount no.	Reducer size	Nominal ratio	Center distances for various NEMA motor frames															
			56T		143T&145T		182T&184T		213T&215T		254T&256T		284T&286T		324T&326T		364T&365T	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
TAB1	TXT1A	9, 15, 25	14.70	18.40	14.70	18.40	15.70	19.40	-	-	-	-	-	-	-	-	-	-
		5	14.50	18.20	14.50	18.20	16.30	19.20	17.20	19.90	-	-	-	-	-	-	-	-
TAB2	TXT2A	9, 15, 25	14.80	18.50	14.80	18.50	15.80	19.50	16.50	20.20	-	-	-	-	-	-	-	-
		5	-	-	14.60	18.20	15.60	19.20	16.30	20.00	-	-	-	-	-	-	-	-
TAB3	TXT3B	9, 15, 25	18.70	23.30	18.70	23.30	19.70	24.30	20.50	25.10	-	-	-	-	-	-	-	-
		5	-	-	19.50	24.10	20.20	24.80	21.20	25.80	-	-	-	-	-	-	-	-
TAB4	TXT4B	9, 15, 25	19.30	23.90	19.30	23.90	20.30	24.90	21.10	25.70	22.10	26.60	-	-	-	-	-	-
		5	-	-	20.00	24.70	20.80	25.40	21.80	26.40	22.50	27.20	-	-	-	-	-	-
TAB5	TXT5C	9, 15, 25	-	-	19.50	24.10	20.50	25.10	21.30	25.90	22.30	26.90	23.00	27.60	-	-	-	-
		5	-	-	-	-	20.90	25.50	21.90	26.50	22.60	27.20	23.60	28.20	-	-	-	-
TAB6	TXT6A	9, 15, 25	-	-	21.40	25.90	22.40	26.90	23.10	27.60	24.10	28.60	24.90	29.40	25.80	30.40	-	-
		5	-	-	-	-	-	-	23.60	28.20	24.40	28.90	25.40	29.90	-	-	-	-
TAB7	TXT7A	9, 15, 25	-	-	-	-	24.50	28.90	25.20	29.70	26.20	30.60	26.90	31.40	27.90	32.40	-	-
		5	-	-	-	-	-	-	25.70	30.20	26.40	30.90	27.40	31.90	-	-	-	-
TAB8	TXT8A	15, 25	-	-	-	-	-	-	29.50	33.80	30.50	34.80	31.20	35.60	32.20	36.50	33.20	37.50
		5	-	-	-	-	-	-	-	-	30.50	34.90	31.50	35.90	32.50	36.90	-	-
TAB9	TXT9A	15, 26	-	-	-	-	-	-	29.90	34.10	30.80	35.10	31.60	35.90	32.50	36.80	33.50	37.80
		5	-	-	-	-	-	-	-	-	-	-	31.70	36.10	32.70	37.10	-	-
TAB10	TXT10A	15, 24	-	-	-	-	-	-	-	-	32.00	37.00	32.80	38.00	33.70	39.00	34.70	40.00

♣ Made to order

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

♦ Provides for V-belt adjustment

● Necessary mounting bolts are included

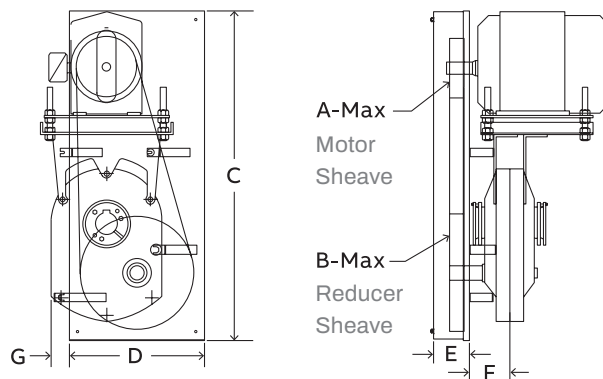
Belt guards

Modifications and Accessories



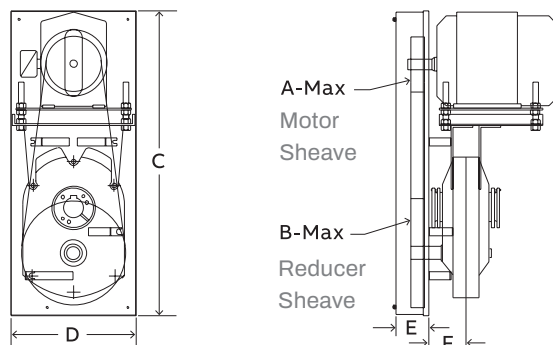
Slotted metal panel belt guard

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



Belt guards for double reduction TXT reducers (9, 15, 25:1) with standard motor mounts ■

Reducer size	Belt guard size	Part number	Motor mount no.	Wt.	NEMA motor frame	Center distance		A	B	C	D	E	F	G
						Min	Max							
TXT1A	TXT1D	241395	TA1M	30	56T-215T	17.6	22.7	5.0	12.0	32.0	13.0	3.50	3.63	—
TXT2A	TXT2D	242395	TA1M	36	56T-215T	18.7	23.9	6.0	12.0	34.0	15.0	4.00	3.50	—
TXT3B	TXT3D	243387 ▲	TA3M	43	56T-215T	20.2	25.3	7.0	14.0	37.0	17.0	4.00	3.94	—
TXT4B	TXT4D	244395	TA4M	54	143T-286T	21.2	28.7	7.0	15.0	43.0	18.0	4.50	5.19	—
TXT5C	TXT5D	245387 ▲	TA5M	75	143T-286T	22.7	30.2	7.0	15.0	45.0	18.0	4.25	5.13	0.625
TXT6A	TXT6D	246366	TA6M	83	143T-326T	25.9	34.2	8.0	18.0	50.0	20.0	6.00	6.06	1.63
TXT7A	TXT7D	247390	TA7M	90	143T-365T	30.6	40	10.0	20.0	56.0	23.0	6.00	6.88	0.500
TXT8A	TXT8D	248395	TA8	107	213T-365T	35.4	44.2	12.0	25.0	63.0	27.0	6.50	7.46	0.156
TXT9A	TXT9D	249395 ▲	TA9	125	213T-365T	38	46.7	12.0	25.0	66.0	30.0	9.00	7.63	2.91
TXT10A	TXT10D	250395	TA10	140	254T-445T	42.5	50.8	12.0	25.0	72.5	30.0	9.00	8.25	4.31
TXT12	TXT12D	272688 ♣	TA12	170	320T-445T	58.1	66.6	15.0	30.0	91.0	34.0	9.50	8.13	—



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

Reducer size	Belt guard size	Part number	Motor mount no.	Wt.	NEMA motor frame	Center distance		A	B	C	D	E	F
						Min	Max						
TXT105	TXT1S	241397	TA1M	30	56T-215T	17.6	22.7	5.0	12.0	32.0	13.0	3.50	3.63
TXT205	TXT2S	242397	TA1M	36	56T-215T	18.7	23.9	6.0	13.0	34.0	15.0	4.00	3.50
TXT305A	TXT3S	243389 ▲	TA3M	43	56T-215T	20.2	25.3	7.0	15.0	37.0	17.0	4.00	3.94
TXT405A	TXT4S	244397	TA4M	54	143T-286T	21.2	28.7	8.0	16.0	43.0	18.0	4.50	5.19
TXT505A	TXT5S	245389 ▲	TA5M	59	143T-286T	22.7	30.2	8.0	16.0	45.0	18.0	5.25	5.13
TXT605	TXT6S	246368	TA6M	95	143T-326T	25.9	34.2	10.0	18.0	50.0	20.0	6.00	6.06
TXT705	TXT7S	247392	TA7M	112	143T-365T	30.6	40.0	10.0	25.0	58.0	27.0	6.00	6.88
TXT805	TXT8S	248397	TA8	125	213T-365T	35.1	43.9	13.0	30.0	66.0	32.0	6.50	7.46
TXT905	TXT9S	249397 ▲	TA9	156	213T-365T	37.6	46.4	13.0	30.0	69.0	32.0	9.00	7.63

♣ Made to order

▲ These belt guards do not fit the larger frame, higher H.P. Torque-Arm motor mounts on pages G3-63 and G3-64.

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

Motor Mounts

Modifications and Accessories

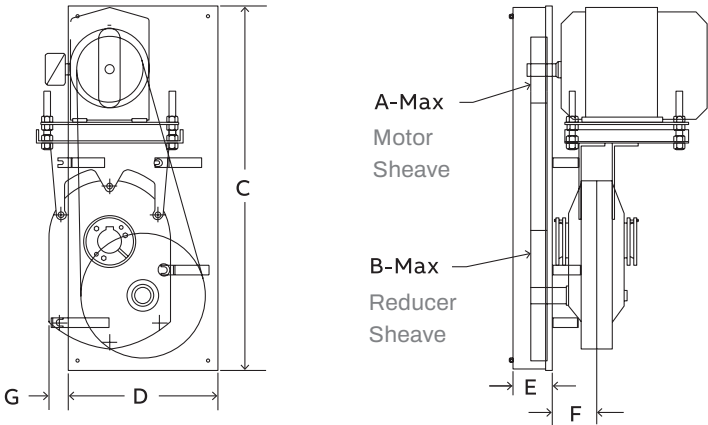
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

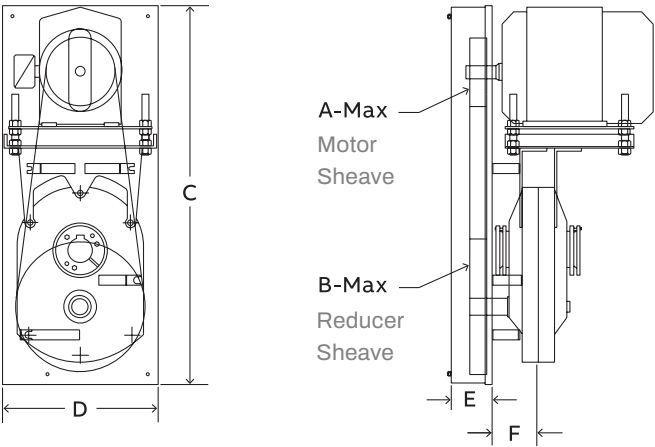
Torque-Arm

Bulk Material Handling



Belt guards for double reduction TXT reducers (9, 15, 25:1) with long motor mounts

Reducer size	Belt guard size	Part number	Motor mount no.	Wt.	NEMA motor frame	Center distance		A	B	C	D	E	F	G
						Min	Max							
TXT3B	TXT3DLMM	243153 ▲ ♣	TA3ML	52	56T-215T	23.1	28.3	7	14	40	17	4	3.94	–
TXT4B	TXT4DLMM	244151 ♣	TA4ML	65	143T-286T	25.6	33.1	7	15	47.5	18	4.5	5.19	–
TXT5C	TXT5DLMM	245102 ▲ ♣	TA5ML	90	143T-286T	29.4	36.8	7	15	51.7	18	4.25	5.13	0.625
TXT6A	TXT6DLMM	246147	TA6ML	100	143T-326T	39.8	48.1	8	18	64	20	6	6.06	1.63
TXT7A	TXT7DLMM	247152 ♣	TA7ML	108	143T-365T	46	55.3	10	20	71.5	23	6	6.88	0.5



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

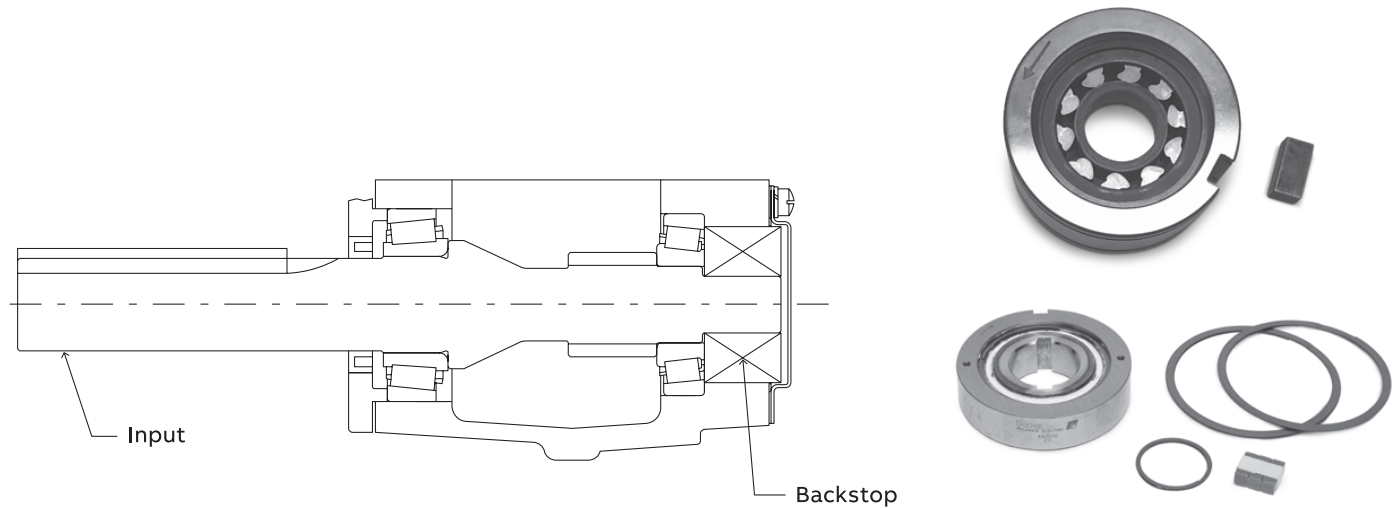
Reducer size	Belt guard size	Part number	Motor mount no.	Wt.	NEMA motor frame	Center distance		A	B	C	D	E	F
						Min	Max						
TXT305A	TXT3SLMM	243164 ▲ ♣	TA3ML	55	56T-215T	23.1	28.3	7.0	15.0	40.0	17.0	4.00	3.94
TXT405A	TXT4SLMM	244164 ♣	TA4ML	65	143T-286T	25.6	33.1	8.0	16.0	47.5	18.0	4.50	5.19
TXT505A	TXT5SLMM	245162 ▲ ♣	TA5ML	90	143T-286T	29.4	36.8	8.0	16.0	51.7	18.0	4.25	5.13
TXT605	TXT6SLMM	246132 ♣	TA6ML	100	143T-326T	39.8	48.1	10.0	18.0	64.0	20.0	6.00	6.06
TXT705	TXT7SLMM	247146 ♣	TA7ML	135	143T-365T	46.0	55.3	10.0	20.0	71.5	23.0	6.00	6.88

♣ Made to order

▲ These belt guards do not fit the larger frame, higher Hp Torque-Arm motor mounts on pages G3-63 and G3-64.

Backstops

Modifications and Accessories



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

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

Warning: Backstops are not recommended for applications involving energy absorption and shock or torque loads in excess of reducer ratings or on applications such as chair lifts, amusement rides, etc., where the safety of persons or property is dependent on their function. On such applications, other safety devices should be provided. Not for use with lubricants containing EP additives.

Backstop assemblies ■

Reducer size	Nominal ratio	Part number	Weight
TXT1A	5, 9, 15, 25	242101	0.6
TXT2A	5, 9, 15, 25	252101	1.0
TXT3B	9, 15, 25	243106	0.6
TXT3A	5	252101	1.0
TXT4B	9, 15, 25	244106	1.2
TXT4A	5	244148	0.9
TXT5C	9, 15, 25	245154	2.2
TXT5A	5	246101	1.8
TXT6 A	5, 9, 15, 25	246092	2.5
TXT7A	5, 9, 15, 25	247260	2.8
TXT8A	15, 25	249260	3.8
TXT8	5*	250260	5.6
TXT9A	15, 26	249260	3.8
TXT9	5*	272259	6.7
TXT10A	15, 24	250260	5.6
TXT12	15, 25	250260	5.6
TDT13	25	272259	6.7
TDT14	25	272293	13.4
TDT15	30	272293	13.4

* replacement parts only, gearboxes no longer available

■ See pages G3-184 and G3-185 for complete listing of Backstop assemblies for all generations of Dodge TXT Torque-Arm reducers

Auxiliary seal kits

Modifications and Accessories

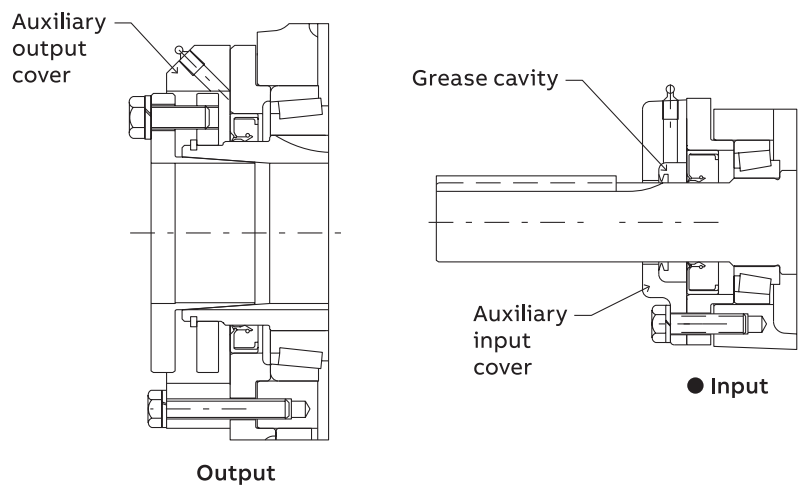
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



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.

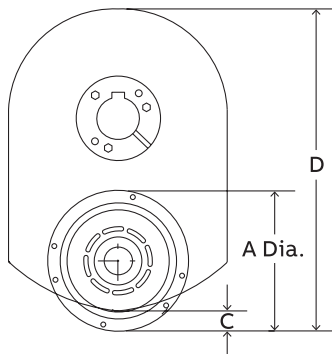
Auxiliary seal kits ~ ■ ●

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

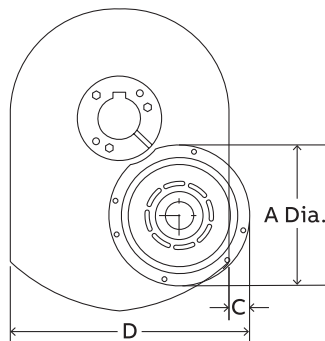
- ♣ Made to order
- See pages G3-167 and G3-168 for dimensions to drill and tap reducer housing for mounting of auxiliary seal kit. Dodge will install upon request.
- ~ For taper bushed reducers only
- Input auxiliary seal can not be used on same input shaft with a cooling fan

Cooling fan assemblies

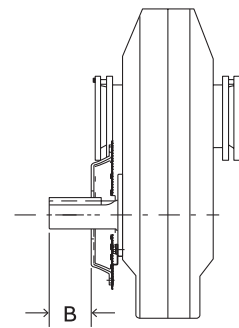
Modifications and Accessories



**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 G3-169 for maximum input shaft speeds

Torque-Arm reducer cooling fan assemblies

Reducer size	Cooling fan no.	Part number	Nominal ratios	Wt.	A	B	C	D
TXT3B, SCXT3B	TXT3A	243581	9, 15, 25	3.0	4.88	2.13	0.15	9.38
TXT305A, SCXT305A	TXT305A	253188	5	3.0	3.94	1.88	—	—
TXT4B, SCXT4B	TDT4	272594	9, 15, 25	3.0	5.88	2.94	0.50	10.88
TXT405A, SCXT405A	TXT405A	254268	5	3.0	4.68	2.94	—	—
TXT5C, SCXT5C	TDT5	272369	9, 15, 25	3.0	7.08	3.44	—	—
TXT505A, SCXT505A	TXT505A	255231	5	3.0	5.75	3.44	—	—
TXT6A, SCXT6A	TDT6	272325	9, 15, 25	6.0	10.25	3.44	1.31	16.44
TXT605, SCXT605	TXT605	272681 ♣	5	6.0	7.08	3.42	—	—
TXT7A, SCXT7A	TDT7	272326	9, 15, 25	6.0	12.75	3.68	2.18	20.94
TXT705, SCXT705	TXT705	272685 ♣	5	6.0	9.25	3.88	—	—
TXT8A	TDT8	272327	15, 25	9.0	12.75	4.18	2.38	22.63
TXT805	TDT8	272327	5	9.0	12.75	4.25	—	—
TXT9A	TDT9	272328	15, 26	15.0	16.75	6.31	3.75	26.38
TXT905	T19	272324 ♣	5	15.0	12.75	7.44	—	—
TXT10A	TDT10	272329	15, 24	15.0	16.75	6.13	2.25	27.75
TXT12	TDT12	272330	15, 25	15.0	16.75	5.88	3.25	46.75
TDT13	TDT13	272331	25	20.0	18.50	5.68	3.94	49.75
TDT14	TDT14	272332	25	20.0	18.50	8.63	2.81	52.88
TDT15	TDT15	272333	30	23.0	18.50	9.50	2.00	60.63

Reducer heat exchanger cooling package

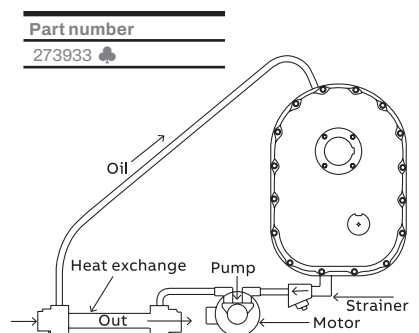
For thermal capacities beyond the range of cooling fans, an optional heat exchanger cooling package is available to prevent overheating the reducer and allow the use of full mechanical Hp rating by lowering the oil temperature to an acceptable level.

Specifications for the heat exchange motor are as follows:

1/2 Hp, 60 Hz, 3 Ph, 230/460 volt, TEFC, 56 frame

Minimum coolant (water) flow is 3 G.P.M. based upon a maximum water temperature of 80°F. Minimum oil temperature for operation is 60°F

♣ Made to order



Selection

Screw conveyor drive

When to use easy selection

The easy selection tables for shaft mount reducers are for electric motor selections up to 75 horsepower with output speeds up to 400 RPM, using AGMA recommended application class numbers. For extreme shock or high energy loads which must be absorbed, as when stalling; for power source other than an electric motor; or for extreme ambient temperatures, or oversized equipment, consult Dodge application engineering, (864) 284-5700.

How to select

Step 1: Determine class of service

See Application Classification table on page G1-7 to determine Load Classification for applications under normal conditions. Find the type application and duty cycle that most closely matches your specific application.

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

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

Class II - Steady load not exceeding motor Hp rating for over 10 hours a day. Moderate shock loads are allowable during 10 hours a day.

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

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

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

Step 2: Determine reducer size

See the easy selection tables, pages G3-75 through G3-80. 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 G3-169 for maximum input and output speeds, overhung load ratings and WR2 ratings.

Step 3: Check dimensions

See "Selection and Dimensions" sections, pages G3-82 through G3-111 for reducer dimensions, weights and part numbers. See "Engineering and technical" section, page G3-162 for reducer and mounting positions.

Step 4: Select screw conveyor drive shaft and adapter

to fit screw diameter. See "Selection and Dimensions" section for compatibility of screw diameter and drive shaft diameter.

Step 5: Select a belt drive arrangement

from the sheave ratio table, pages G3-154 through G3-156, 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 G3-153. 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 G3-116 through G3-122, for description, dimensions, weights, and part numbers for accessories available for the screw conveyor drive reducer selected:

- Motor mounts
- Belt guards
- Cooling fans
- Auxiliary seal kits
- Alternative drive shaft styles
- Filter breathers

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

Screw conveyor drive

Selection

Example: Easy selection method - SCXT Screw conveyor drive reducers

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

Step 1: Determine class of service

From the table on page G1-7, 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 G3-77, find the column for 5 Hp and read down to 72 RPM. An SCXT225 reducer is the correct selection. Check maximum input and output speed, overhung load, and WR^2 requirements with reducer ratings on page G3-169.

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 G3-162 for information on mounting positions.

Step 4: Select screw conveyor drive shaft and adapter

to fit screw diameter-See "Selection and Dimensions" section, page G3-86. Here we verify that a 2-7/16" diameter drive shaft is compatible with 12" diameter screw. From this same page, select a C2A adapter which fits the 2-7/16" CEMA standard screw conveyor drive shaft.

Step 5: Select a belt drive arrangement

From the sheave ratio table, page G3-154, 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 Dodge Torque-Arm reducers" table on page G3-153.

Step 6: Select accessories

See "Selection and Dimensions" page G3-87 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 guide: SCXT Screw conveyor drive

This is a handy reference sheet for quick selection and specification of Dodge screw conveyor drive reducers. Use it to identify information needed to make an accurate selection with a step-by-step selection format for choosing reducer, accessories and v-drive. Use this page to make your own selections or send this form, with application data to Dodge for assistance.

Name _____ Company name _____

Phone no. _____ Fax no. _____

Application data

Type of driven equipment _____

Hours of service per day _____ Class of service _____

Type of load Uniform _____ Moderate _____ Shock _____

Motor type Hp _____ RPM _____ Frame size _____ Shaft size _____

Screw conveyor RPM _____

Drive shaft 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 Hp and driven RPM requirements

Step 3 – Select drive shaft with diameter to fit screw size _____

Determine type of drive shaft needed Standard _____ Stainless steel _____
3-hole standard _____ 3-hole stainless _____

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 Reducers

Easy selection

Class I - 1.0 service factor

Hp	Output RPM	Reducer selection		
		Single	Double	
1/4	4-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
1/3	5-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
1/2	4-6	–	SCXT225A	
	7-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
3/4	201-400	SCXT105	–	–
	4-5	–	SCXT325B	
	6-10	–	SCXT225A	
	11-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
1	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
	4-5	–	SCXT425B	
	6-7	–	SCXT325B	
	8-15	–	SCXT225A	
1-1/2	16-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–

Hp	Output RPM	Reducer selection		
		Single	Double	
2	4-6	–	SCXT525C	
	7-10	–	SCXT425B	
	11-17	–	SCXT325B	
	18-32	–	SCXT225A	SCXT215A
	33-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
3	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
	4-5	–	SCXT625A	
	6-10	–	SCXT525C	
5	11-15	–	SCXT425B	
	16-26	–	SCXT325B	–
	27-51	–	SCXT225A	SCXT215A
	52-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
7-1/2	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
	5-6	–	SCXT725A	
	7-9	–	SCXT625A	
	10-17	–	SCXT525C	
	18-26	–	SCXT425B	SCXT415B
	27-46	–	SCXT325B	SCXT315B
	47-70	–	SCXT225A	SCXT215A
	71-85	–	SCXT215A	SCXT225A
	86-92	–	SCXT109A	SCXT215A
	93-115	–	SCXT115A	SCXT109A
	116-119	–	SCXT109A	SCXT115A
	120-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
	4-6	–	SCXT825A	
	7-9	–	SCXT725A	
	10-15	–	SCXT625A	
	16-26	–	SCXT525C	
	27-40	–	SCXT425B	SCXT415B
	41-70	–	SCXT325B	SCXT315B
	71-74	–	SCXT315B	SCXT325B
	75-85	–	SCXT215A	SCXT225A
	86-95	–	SCXT215A	SCXT209A
	96-140	SCXT205	SCXT209A	SCXT215A
	141-200	SCXT205	SCXT209A	
	201-231	SCXT205	–	–

~ See page G3-162 for lubrication for 15 RPM and slower.

Class I SCXT Reducers

Easy selection

Class I - 1.0 service factor

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Hp	Output RPM	Reducer selection	
		Single	Double
10	6-8	–	SCXT825A
	9-12	–	SCXT725A
	13-20	–	SCXT625A
	21-36	–	SCXT525C SCXT515C
	37-56	–	SCXT425B SCXT415B
	57-70	–	SCXT325B SCXT315B
	71-85	–	SCXT315B SCXT325B
	86-103	–	SCXT315B SCXT309B
	104-115	–	SCXT215A SCXT209A
	116-140	SCXT305A	SCXT215A
15	141-158	SCXT305A	SCXT309B
	159-200	SCXT305A	SCXT309B
	201-400	SCXT205	–
	9-13	–	SCXT825A
	14-19	–	SCXT725A
	20-32	–	SCXT625A SCXT615A
	33-56	–	SCXT525C SCXT515C
	57-70	–	SCXT425B SCXT415B
	71-85	–	SCXT415B SCXT425B
	86-93	–	SCXT415B SCXT409B
20	94-115	–	SCXT309B + SCXT315B
	116-140	SCXT405A	SCXT315B SCXT309B +
	141-145	SCXT405A	SCXT309B +
	146-200	SCXT305A	SCXT309B +
	201-400	SCXT305A	–
	13-18	–	SCXT825A
	19-26	–	SCXT725A SCXT715A
	27-45	–	SCXT625A SCXT615A
	46-70	–	SCXT525C SCXT515C
	71-78	–	SCXT515C SCXT525C
25	79-85	–	SCXT415B SCXT42B
	86-115	–	SCXT415B SCXT409B +
	116-140	SCXT405A	SCXT409B + SCXT415B +
	141-200	SCXT405A	SCXT309B +
	201-241	SCXT405A	–
	242-400	SCXT305A +	–
	16-23	–	SCXT825A
	24-33	–	SCXT725A SCXT715A
	34-59	–	SCXT625A SCXT615A
	60-70	–	SCXT525C + SCXT515C +
30	71-80	–	SCXT515C + SCXT525C +
	81-101	–	SCXT515C + SCXT509C +
	102-132	SCXT505A	SCXT415B + SCXT409B +
	133-140	SCXT505A	SCXT409B + SCXT415B +
	141-163	SCXT505A	SCXT409B +
	164-200	SCXT405A +	SCXT409B +
	201-400	SCXT405A +	–
	20-28	–	SCXT825A SCXT815A
	29-41	–	SCXT725A SCXT715A
	42-70	–	SCXT625A SCXT615A

Hp	Output RPM	Reducer selection	
		Single	Double
30	71-75	–	SCXT615A SCXT625A
	76-115	–	SCXT515C + SCXT509C +
	116-125	SCXT605	SCXT509C + SCXT515C +
	126-131	SCXT605	SCXT409B +
	132-200	SCXT505A	SCXT409B +
	201-215	SCXT505A +	–
	216-400	SCXT405A +	–
	26-38	–	SCXT825A SCXT815A
	39-57	–	SCXT725A SCXT715A
	58-70	–	SCXT625A SCXT615A
40	71-81	–	SCXT615A+ SCXT625A +
	82-114	SCXT605	SCXT615A + SCXT609A +
	115-125	SCXT605	SCXT515C + SCXT509C +
	126-200	SCXT605	SCXT509C +
	201-241	SCXT605	–
	242-400	SCXT505A +	–
	33-49	–	SCXT825A SCXT815A
	50-70	–	SCXT725A SCXT715A
	71-74	–	SCXT715A SCXT725A
	75-125	–	SCXT615A + SCXT709A +
50	126-163	SCXT605 +	SCXT709A +
	164-200	SCXT605 +	SCXT609A +
	201-400	SCXT605 +	–
	40-60	–	SCXT825A SCXT815A
	61-70	–	SCXT725A + SCXT715A +
	71-120	–	SCXT715A + SCXT709A +
	121-131	SCXT705	SCXT709A +
	132-200	SCXT605 +	SCXT709A +
	201-400	SCXT605 +	–
	51-70	–	SCXT825A SCXT815A
75	71-78	–	SCXT815A +
	79-120	–	SCXT715A + SCXT709A +
	121-200	SCXT705	SCXT709A +
	201-210	SCXT705	–
	211-400	SCXT605 +	–
	40-60	–	SCXT825A SCXT815A
	61-70	–	SCXT725A + SCXT715A +
	71-120	–	SCXT715A + SCXT709A +
	121-131	SCXT705	SCXT709A +
	132-200	SCXT605 +	SCXT709A +

~ See page G3-162 for lubrication for 15 RPM and slower.

+ Fan cooling required – see page G3-71

Class II SCXT Reducers

Easy selection

Class II - 1.4 service factor

Hp	Output RPM	Reducer selection		
		Single	Double	
1/4	5-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
1/3	4-6	–	SCXT225A	
	7-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
1/2	4-5	–	SCXT325B	
	6-9	–	SCXT225A	
	10-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
3/4	4-5	–	SCXT425B	
	6-8	–	SCXT325B	
	9-16	–	SCXT225A	
	17-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
1	5-7	–	SCXT425B	
	8-11	–	SCXT325B	
	12-22	–	SCXT225A	
	23-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
1-1/2	5-6	–	SCXT525C	
	7-11	–	SCXT425B	
	12-18	–	SCXT325A	
	19-34	–	SCXT225A	SCXT215A
	35-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–

Hp	Output RPM	Reducer selection		
		Single	Double	
2	4-5	–	SCXT625A	
	6-9	–	SCXT525C	
	10-14	–	SCXT425B	
	15-24	–	SCXT325B	SCXT315B
	25-47	–	SCXT225A	SCXT215A
	48-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
3	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
	4-5	–	SCXT725A	
	6-8	–	SCXT625A	
	9-14	–	SCXT525C	
	15-22	–	SCXT425B	SCXT415B
	23-38	–	SCXT325B	SCXT315B
	39-70	–	SCXT225A	SCXT215A
	71-75	–	SCXT215A	SCXT225A
5	76-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
	4-6	–	SCXT825A	
	7-8	–	SCXT725A	
	9-14	–	SCXT625A	
	15-24	–	SCXT525C	
	25-37	–	SCXT425B	SCXT415B
	38-69	–	SCXT325B	SCXT315B
7-1/2	70-85	–	SCXT215A	SCXT225A
	86-89	–	SCXT215A	SCXT209A
	90-136	SCXT205	SCXT209A	SCXT215A
	137-140	SCXT205	SCXT115A	SCXT209A
	141-191	SCXT205	SCXT109A	
	192-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
	6-9	–	SCXT825A	
	10-13	–	SCXT725A	
	14-21	–	SCXT625A	
	22-38	–	SCXT525C	SCXT515C
	39-59	–	SCXT425B	SCXT415B
	60-70	–	SCXT325B	SCXT315B
	71-85	–	SCXT315B	SCXT325B
	86-110	–	SCXT315B	SCXT309B
	111-122	–	SCXT215A	
	123-140	SCXT305A	SCXT209A	SCXT215A
	141-183	SCXT305A	SCXT209A	
	184-200	SCXT205	SCXT209A	
	201-400	SCXT205	–	–

~ See page G3-162 for lubrication for 15 RPM and slower. + Fan cooling required – see page G3-71

Class II SCXT Reducers

Easy selection

Class II - 1.4 service factor

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Hp	Output RPM	Reducer selection	
		Single	Double
10	8-12	–	SCXT825A
	13-18	–	SCXT725A
	19-29	–	SCXT625A SCXT615A
	30-52	–	SCXT525C SCXT515C
	53-70	–	SCXT425B SCXT415B
	71-84	–	SCXT415B SCXT425B
	85-130	–	SCXT315B SCXT309B
	131-140	SCXT305A	SCXT315B SCXT309B
	141-200	SCXT305A	SCXT309B
	201-353	SCXT305A	– –
15	354-400	SCXT205	– –
	13-19	–	SCXT825A
	20-27	–	SCXT725A
	28-47	–	SCXT625A SCXT615A
	48-70	–	SCXT525C SCXT515C
	71-82	–	SCXT515C SCXT525C
	83-117	–	SCXT415B SCXT409B
	118-140	SCXT405A	SCXT409B SCXT415B
	141-150	SCXT405A	SCXT409B
	151-200	SCXT405A	SCXT309B +
20	201-269	SCXT405A	– –
	270-400	SCXT305A	– –
	18-26	–	SCXT825A
	27-38	–	SCXT725A SCXT715A
	39-68	–	SCXT625A SCXT615A
	69-80	–	SCXT515C SCXT525C
	81-89	–	SCXT515C
	90-117	–	SCXT515C + SCXT509C +
	118-125	SCXT505A	SCXT409B + SCXT415B +
	126-200	SCXT505A	SCXT409B +
25	201-400	SCXT405A +	– –
	23-33	–	SCXT825A SCXT815A
	34-49	–	SCXT725A SCXT715A
	50-80	–	SCXT615A SCXT625A
	81-94	–	SCXT615A SCXT609A
	95-125	SCXT605	SCXT509C + SCXT515C +
	126-174	SCXT605	SCXT509C +
	175-200	SCXT505A	SCXT409B +
	201-270	SCXT505A	– –
	271-400	SCXT405A+	– –

Hp	Output RPM	Reducer selection	
		Single	Double
30	28-41	–	SCXT825A SCXT815A
	42-60	–	SCXT725A SCXT715A
	61-76	–	SCXT625A SCXT615A
	77-89	–	SCXT615A SCXT609A
	90-125	SCXT605	SCXT615A + SCXT609A +
	126-200	SCXT605	SCXT509C +
	201-233	SCXT605	– –
	234-349	SCXT505A +	– –
	350-400	SCXT405A +	– –
	37-56	–	SCXT825A SCXT815A
40	57-75	–	SCXT725A SCXT715A
	76-88	–	SCXT715A
	89-114	–	SCXT615A + SCXT609A +
	115-120	–	SCXT615A + SCXT609A +
	121-200	SCXT605	SCXT609A +
	201-347	SCXT605 +	– –
	348-400	SCXT505A +	– –
	47-70	–	SCXT825A SCXT815A
	71-72	–	SCXT815A SCXT825A
	73-95	–	SCXT715A +
50	96-110	SCXT705	SCXT709A SCXT715A +
	111-120	SCXT705	SCXT709A + SCXT715A +
	121-179	SCXT705	SCXT709A +
	180-200	SCXT605	SCXT609A +
	201-400	SCXT605 +	– –
	57-70	–	SCXT825A SCXT815A
	71-75	–	SCXT815A SCXT825A
	76-89	–	SCXT815A
	90-120	SCXT705	SCXT715A + SCXT709A +
	121-200	SCXT705	SCXT709A +
60	201-285	SCXT705	– –
	286-400	SCXT605 +	– –
	74-75	–	SCXT815A SCXT825A
	76-120	–	SCXT815A +
	121-133	–	SCXT709A +
	134-200	SCXT705	SCXT709A +
	201-400	SCXT705	– –
	74-75	–	SCXT815A SCXT825A
	76-120	–	SCXT815A +
	121-133	–	SCXT709A +

~ See page G3-162 for lubrication for 15 RPM and slower

+ Fan cooling required – see page G3-71

Class III SCXT Reducers

Easy selection

Class III - 2.0 service factor

Hp	Output RPM	Reducer selection		
		Single	Double	
1/4	4-6	–	SCXT225A	
	7-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-89	–	SCXT115A	SCXT109A
	90-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
1/3	201-400	SCXT105	–	–
	5-9	–	SCXT225A	
	10-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
1/2	201-400	SCXT105	–	–
	4-5	–	SCXT425B	
	6-7	–	SCXT325B	
	8-15	–	SCXT225A	–
	16-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
3/4	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
	4	–	SCXT525C	
	5-7	–	SCXT425B	–
	8-12	–	SCXT325B	–
	13-23	–	SCXT225A	–
1	24-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
	4-6	–	SCXT525C	
1	7-10	–	SCXT425B	
	11-17	–	SCXT325B	
	18-32	–	SCXT225A	–
	33-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
1	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–

Hp	Output RPM	Reducer selection		
		Single	Double	
1-1/2	4-5	–	SCXT625A	
	6-10	–	SCXT525C	
	11-15	–	SCXT425B	
	16-26	–	SCXT325B	
	27-51	–	SCXT225A	SCXT215A
	52-70	–	SCXT125A	SCXT115A
	71-85	–	SCXT115A	SCXT125A
2	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
	5-7	–	SCXT625A	
	8-13	–	SCXT525C	
	14-21	–	SCXT425B	
3	22-36	–	SCXT325B	SCXT315B
	37-71	–	SCXT225A	SCXT215A
	72-85	–	SCXT115A	SCXT125A
	86-115	–	SCXT115A	SCXT109A
	116-140	SCXT105	SCXT109A	SCXT115A
	141-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–
3	4-5	–	SCXT825A	
	6-7	–	SCXT725A	
	8-12	–	SCXT625A	
	13-20	–	SCXT525C	
	21-32	–	SCXT425B	SCXT415B
	33-57	–	SCXT325B	SCXT315B
	58-70	–	SCXT225A	SCXT215A
3	71-85	–	SCXT215A	SCXT225A
	86-89	–	SCXT215A	SCXT209A
	90-113	SCXT205	SCXT215A	SCXT209A
	114-140	SCXT205	SCXT109A	SCXT115A
	141-155	SCXT205	SCXT109A	
	156-200	SCXT105	SCXT109A	
	201-400	SCXT105	–	–

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Class III SCXT Reducers

Easy selection

Class III - 2.0 service factor

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Hp	Output RPM	Reducer selection		
		Single	Double	
5	6-8	–	SCXT825A	
	9-12	–	SCXT725A	
	13-20	–	SCXT625A	
	21-36	–	SCXT525C	SCXT515C
	37-56	–	SCXT425B	SCXT415B
	57-70	–	SCXT325B	SCXT315B
	71-85	–	SCXT315B	SCXT325B
	86-103	–	SCXT315B	SCXT309B
	104-114	SCXT305A	SCXT215A	SCXT309B
	115-140	SCXT305A	SCXT209A	SCXT215A
7-1/2	141-167	SCXT305A	SCXT209A	
	168-200	SCXT205	SCXT209A	
	201-400	SCXT205	–	–
	9-13	–	SCXT825A	
	14-19	–	SCXT725A	
	20-32	–	SCXT625A	SCXT615A
	33-56	–	SCXT525C	SCXT515C
	57-70	–	SCXT425B	SCXT415B
	71-85	–	SCXT415B	SCXT425B
	86-93	–	SCXT415B	SCXT409B
10	94-140	SCXT405A	SCXT309B	SCXT315B
	141-144	SCXT405A	SCXT309B	
	145-200	SCXT305A	SCXT309B	
	201-400	SCXT305A	–	–
	13-18	–	SCXT825A	
	19-26	–	SCXT725A	SCXT715A
	27-45	–	SCXT625A	SCXT615A
	46-70	–	SCXT525C	SCXT515C
	71-78	–	SCXT515C	SCXT525C
	79-92	–	SCXT415B	
15	93-105	–	SCXT415B	SCXT409B
	106-141	SCXT405A	SCXT409B	SCXT415B
	142-200	SCXT405A	SCXT309B	–
	201-241	SCXT405A	–	–
	242-400	SCXT305A	–	–
	20-28	–	SCXT825A	SCXT815A
	29-41	–	SCXT725A	SCXT715A
	42-70	–	SCXT625A	SCXT615A
	71-75	–	SCXT615A	SCXT625A
	76-93	–	SCXT515C	
	94-115	–	SCXT515C	SCXT509C
	116-125	SCXT605	SCXT509C	SCXT515C
	126-131	SCXT605	SCXT509C	
	132-200	SCXT505A	SCXT409B	
	201-215	SCXT505A	–	–
	216-400	SCXT405A	–	–

Hp	Output RPM	Reducer selection		
		Single	Double	
20	26-38	–	SCXT825A	SCXT815A
	39-57	–	SCXT725A	SCXT715A
	58-70	–	SCXT625A	SCXT615A
	71-114	–	SCXT615A	SCXT609A
	115-125	SCXT605	SCXT509C+	SCXT515C+
	126-200	SCXT605	SCXT509C+	
	201-218	SCXT605	–	–
	219-324	SCXT505A	–	–
	325-400	SCXT405A+	–	–
	33-49	–	SCXT825A	SCXT815A
25	50-70	–	SCXT725A	SCXT715A
	71-74	–	SCXT715A	SCXT725A
	75-104	–	SCXT615A	SCXT609A
	105-113	–	SCXT615A+	SCXT609A
	114-125	SCXT605	SCXT615A+	SCXT609A+
	126-200	SCXT605	SCXT609A+	
	201-294	SCXT605	–	–
	295-400	SCXT505A+	–	–
	40-60	–	SCXT825A	SCXT815A
	61-70	–	SCXT725A	SCXT715A
30	71-98	–	SCXT715A	
	99-125	–	SCXT615A	SCXT609A+
	126-131	SCXT705	SCXT609A+	
	132-200	SCXT605	SCXT609A+	
	201-381	SCXT605	–	–
	382-400	SCXT505A+	–	–
	54-70	–	SCXT825A	SCXT815A
	71-84	–	SCXT815A	
	85-89	–	SCXT715A	SCXT709A
	90-120	SCXT705	SCXT715A+	SCXT709A
40	121-200	SCXT705	SCXT709A+	
	201-249	SCXT705	–	–
	250-400	SCXT605+	–	–
	70-75	–	SCXT815A	SCXT825A
	76-110	–	SCXT815A	
	111-120	–	SCXT715A+	SCXT709A+
	121-123	–	SCXT709A+	
	124-200	SCXT705	SCXT709A+	
	201-400	SCXT705	–	–
	86-120	–	SCXT815A	
60	142-161	–	SCXT709A+	
	162-200	SCXT705	SCXT709A+	
	201-400	SCXT705	–	–

~ See page G3-162 for lubrication for 15 RPM and slower

+ Fan cooling required – see page G3-71

Notes

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Selection and Dimensions

SCXT - Double reduction conveyor drives

SCXT1A

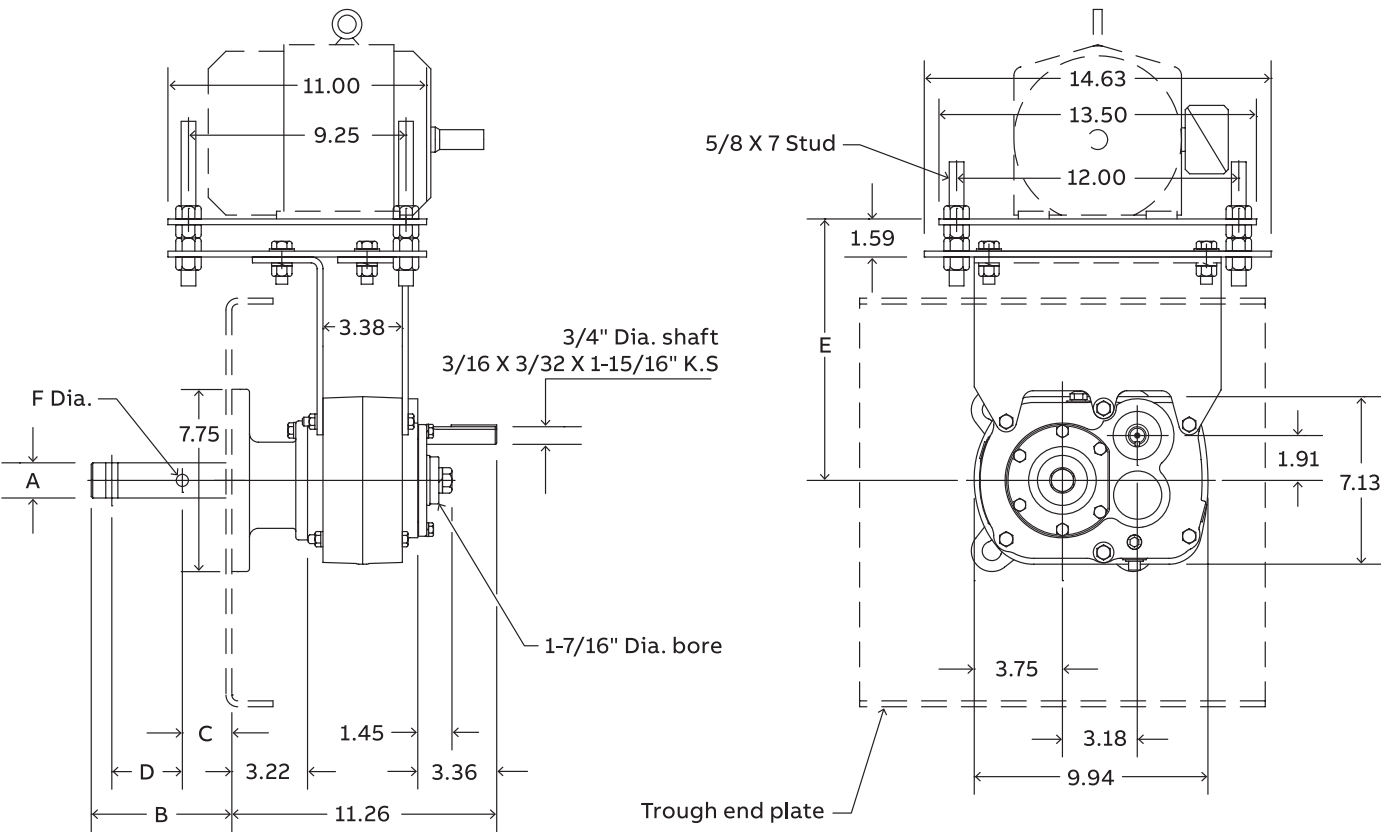
Reference Guide

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Bulk Material Handling



CEMA Drive shafts ~						
Drive shaft	Screw dia.	A	B	C	D	F Dia.
C1 x 1-1/2	6" - 9"	1.50	6.00	2.13	3.00	.52
C1 x 2	9" - 12"	2.00	6.00	2.13	3.00	.64
C1 x 2-7/16	12" - 14"	2.44	6.69	2.75	3.00	.64
C1 x 3	12" - 20"	3.00	6.88	2.88	3.00	.77

All dimensions are in inches.

SCXT1A

Selection and dimensions

SCXT1A – Double reduction screw conveyor drives

SCXT1A screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT109A	241480	107D09	9.44	45
SCXT115A	351163	107D15	15.35	45
SCXT125A	351164	107D25	25.64	45

Description	Part no.	Weight
C1A Adapter assembly ▲	351086	13
AC1 Adjustable packing kit ♠	356301	0.8
C1 x 1-1/2 Drive shaft ~	351094	7.2
C1 x 2 Drive shaft ~	351095	9.1
C1 x 2 7/16 Drive shaft ~	351096	12.5
C1 x 3 Drive shaft ~	351097	17.4

Accessories for SCXT1A reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M112 Standard motor mount	56T through 210T	6"-12"	351069	42
M120L Long motor mount	56T through 210T	14"-20"	272625	51
SCXT1D SCD Reducer belt guard	56T through 210T	–	241489	27
SCXT1D SCD Reducer belt guard for long motor mount	56T through 210T	–	241149	32
SCXT1 Auxiliary seal kit ♥	–	–	272721	2
SCXT1 Lube kit	–	–	LUBEKITXT1	4.6
Dodge OPTIFY sensor			750000	0.5

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	

† For a complete SCXT drive, order a reducer, drive shaft 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 G3-167 and G3-168 for drill and tap information required to mount to reducer.

▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-112 for adapter bolt pattern details.

~ CEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

SCXT105

Selection and dimensions
SCXT105 – Single reduction screw conveyor drives

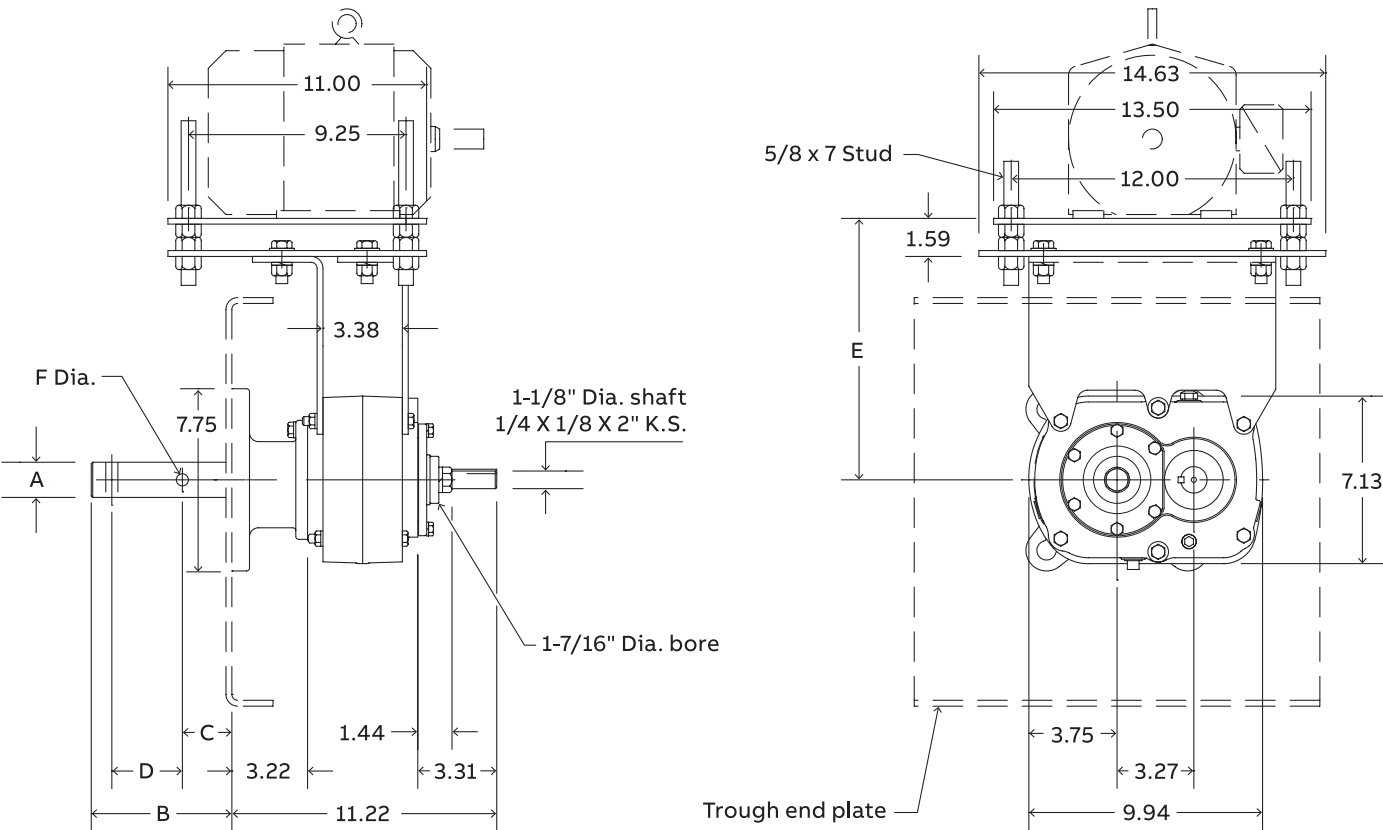
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



CEMA Drive shafts ~

Drive shaft	Screw dia.	A	B	C	D	F Dia.
C1 x 1-1/2	6" - 9"	1.50	6.00	2.13	3.00	.52
C1 x 2	9" - 12"	2.00	6.00	2.13	3.00	.64
C1 x 2-7/16	12" - 14"	2.44	6.69	2.75	3.00	.64
C1 x 3	12" - 20"	3.00	6.88	2.88	3.00	.77

All dimensions are in inches.

SCXT105

Selection and dimensions

SCXT105 – Single reduction screw conveyor drives

SCXT105 screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT105	351165	107S05	5.62	40

Description	Part no.	Weight
C1A Adapter assembly ▲	351086	13
AC1 Adjustable packing kit ♠	356301	0.8
C1 x 1-1/2 Drive shaft ~	351094	7.2
C1 x 2 Drive shaft ~	351095	9.1
C1 x 2 7/16 Drive shaft ~	351096	12.5
C1 x 3 Drive shaft ~	351097	17.4

Accessories for SCXT105 reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M112 Standard motor mount	56T through 210T	6"-12"	351069	42
M120L Long motor mount	56T through 210T	14"-20"	272625	51
SCXT1S SCD Reducer belt guard	56T through 210T	–	241491	30
SCXT1S SCD Reducer belt guard for long motor mount ♠	56T through 210T	–	241142	36
SCXT105 Auxiliary seal kit ♥	–	–	251146	2
SCXT105 Lube kit	–	–	LUBEKITXT105	4.5
Dodge OPTIFY sensor			750000	0.5

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, drive shaft 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.

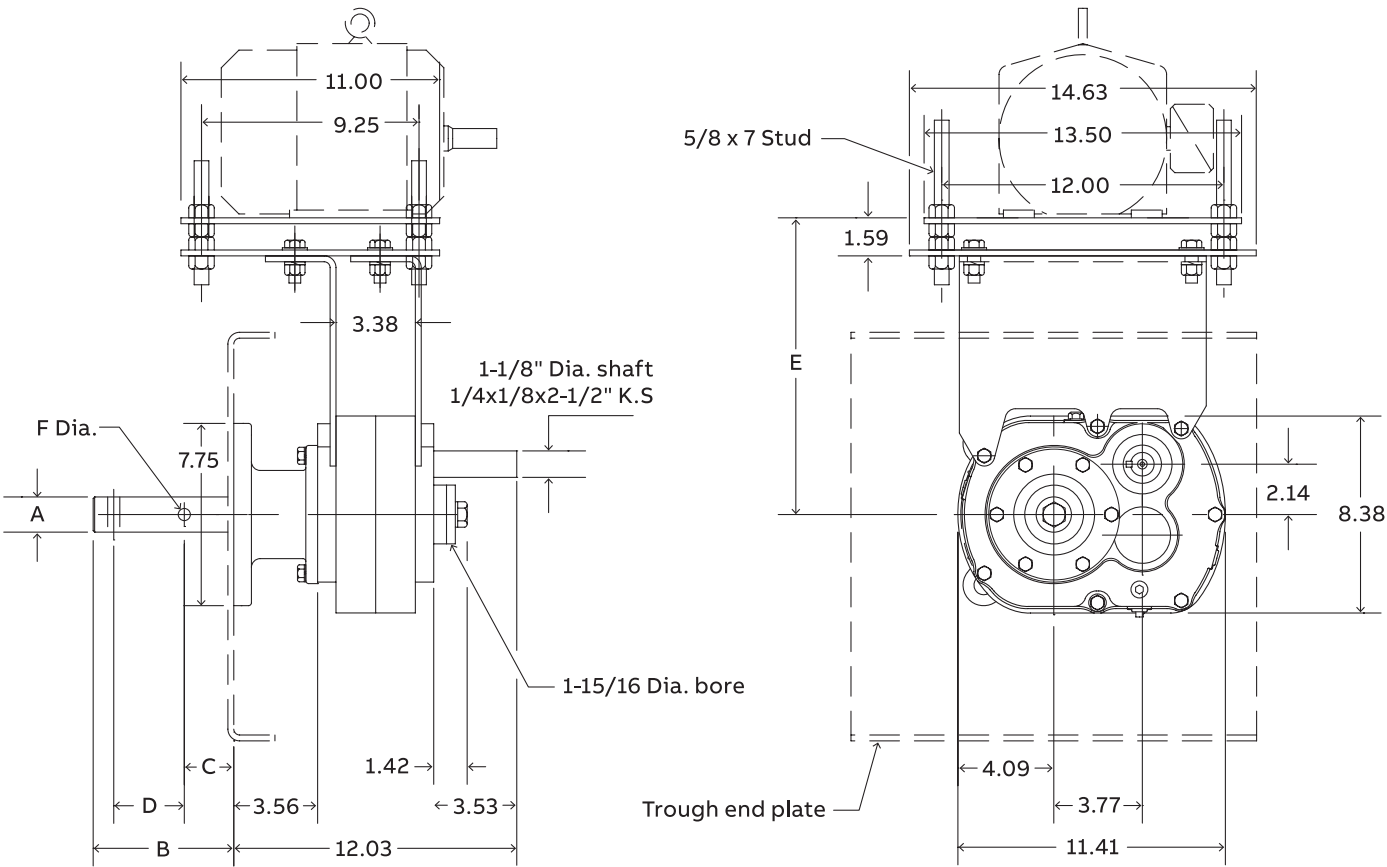
♥ See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-112 for adapter bolt pattern details.

~ CEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

SCXT2A

Selection and dimensions
SCXT2A – Double reduction screw conveyor drives



CEMA Drive shafts ~						
Drive shaft	Screw dia.	A	B	C	D	F Dia.
C2 x 1-1/2	6" - 9"	1.50	6.00	2.13	3.00	.52
C2 x 2	9" - 12"	2.00	6.00	2.13	3.00	.64
C2 x 2-7/16	12" - 14"	2.44	6.69	2.75	3.00	.64
C2 x 3	12" - 20"	3.00	6.88	2.88	3.00	.77

All dimensions are in inches.

SCXT2A

Selection and dimensions

SCXT2A – Double reduction screw conveyor drives

SCXT2A screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT209A	242480	115D09	9.25	58
SCXT215A	352065	115D15	14.10	58
SCXT225A	352066	115D25	23.46	58

Description	Part no.	Weight
C2A Adapter assembly ▲	352052	15
AC2 Adjustable packing kit ♠	356302	1.2
C2 x 1-1/2 Drive shaft ~	352090	11.4
C2 x 2 Drive shaft ~	352091	13.8
C2 x 2 7/16 Drive shaft ~	352092	17.3
C2 x 3 Drive shaft ~	352093	19

Accessories for SCXT2A reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M214 Standard motor mount	56T through 210T	6"-14"	352069	43
M220L Long motor mount	56T through 210T	16"-20"	272626	51
SCXT2D SCD Reducer belt guard	56T through 210T	–	242489	32
SCXT2D SCD Reducer belt guard for long motor mount	56T through 210T	–	242223	38
SCXT2 Auxiliary seal kit ♥	–	–	272722	3
SCXT2 Lube kit	–	–	LUBEKITXT2	4.6
Dodge OPTIFY sensor			750000	0.5

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, drive shaft 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 G3-167 and G3-168 for drill and tap information required to mount to reducer.

▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-112 for adapter bolt pattern details.

~ CEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

SCXT205

Selection and dimensions
SCXT205 – Single reduction screw conveyor drives

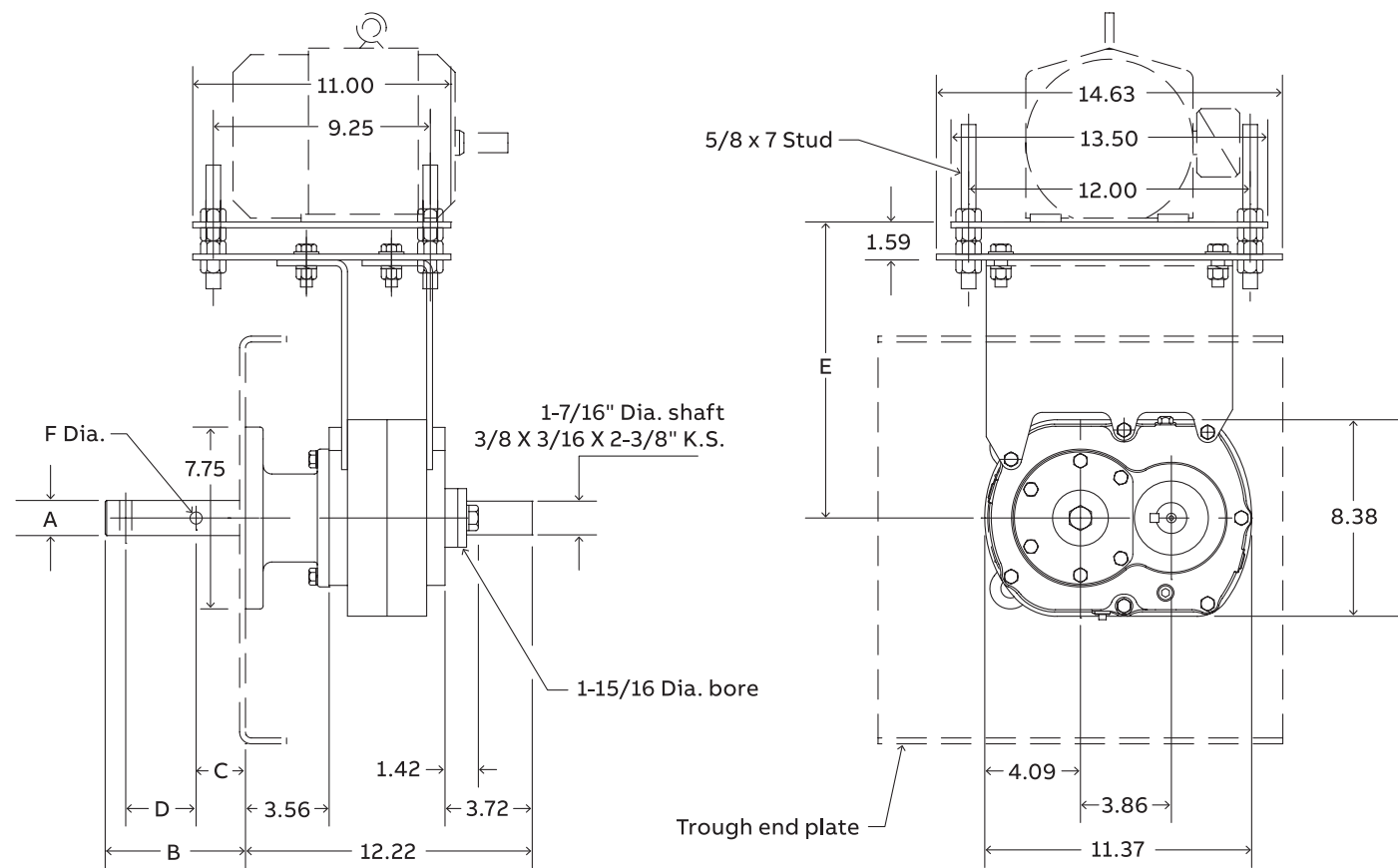
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



CEMA Drive shafts ~						
Drive shaft	Screw dia.	A	B	C	D	F Dia.
C2 x 1-1/2	6" - 9"	1.50	6.00	2.13	3.00	.52
C2 x 2	9" - 12"	2.00	6.00	2.13	3.00	.64
C2 x 2-7/16	12" - 14"	2.44	6.69	2.75	3.00	.64
C2 x 3	12" - 20"	3.00	6.88	2.88	3.00	.77

All dimensions are in inches.

SCXT205

Selection and dimensions

SCXT205 – Single reduction screw conveyor drives

SCXT205 screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT205	352218	115S05	5.29	52

Description	Part no.	Weight
C2A Adapter assembly ▲	352052	15
AC2 Adjustable packing kit ♠	356302	1.2
C2 x 1-1/2 Drive shaft ~	352090	11.4
C2 x 2 Drive shaft ~	352091	13.8
C2 x 2 7/16 Drive shaft ~	352092	17.3
C2 x 3 Drive shaft ~	352093	19

Accessories for SCXT205 reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M214 Standard motor mount	56T through 210T	6"-12"	352069	43
M220L Long motor mount	56T through 210T	14"-20"	272626	51
SCXT2S SCD Reducer belt guard	56T through 210T	–	242491	34
SCXT2S SCD Reducer belt guard for long motor mount	56T through 210T	–	242114	41
SCXT205 Auxiliary seal kit ♥	–	–	252146	3
SCXT205 Lube kit	–	–	LUBEKITXT205	6.9
Dodge OPTIFY sensor			750000	0.5

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, drive shaft 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 G3-167 and G3-168 for drill and tap information required to mount to reducer.
- ▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seal. See page G3-112 for adapter bolt pattern details.
- ~ CEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

SCXT3B – Double reduction screw conveyor drives



All dimensions are in inches.

SCXT3B

Selection and dimensions

SCXT3B – Double reduction screw conveyor drives

SCXT3B screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT309B	243524	203D09	8.91	98
SCXT315B	243525	203D15	14.88	98
SCXT325B	243526	203D25	24.71	98

Description	Part no.	Weight
C3 Adapter assembly ▲	353047	29
AC3 Adjustable packing kit ♣	356303	1.4
C3 x 1-1/2 Drive shaft ~	243562	15
C3 x 2 Drive shaft ~	243563	16
C3 x 2 7/16 Drive shaft ~	243564	19.5
C3 x 3 Drive shaft ~	243565	26

Accessories for SCXT3B reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M316 Standard motor mount	56T through 210T	6"-16"	353069	44
M316/250T Special motor mount ■ ●	250T	6"-16"	353070	44
M320L Long motor mount	56T through 210T	18"-20"	272627	56
SCXT3-D SCD Reducer belt guard	56T through 210T	–	243416	40
SCXT3-D SCD Reducer belt guard for long motor mount	56T through 210T	–	243154	48
SCXT3A Cooling fan assembly	–	–	243581	3
SCXT3A Auxiliary seal kit ♥	–	–	243582	5
SCXT3 Lube kit	–	–	LUBEKITXT3	6.9
Dodge OPTIFY sensor			750000	0.5

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	–	–

† For a complete SCXT drive, order a reducer, drive shaft 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 G3-112 for adapter bolt pattern details

~ CEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

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

♥ See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

SCXT305A – Single reduction screw conveyor drives



All dimensions are in inches.

SCXT305A

Selection and dimensions

SCXT305A – Single reduction screw conveyor drives

SCXT305 screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT305A	253159	203S05	5.60	86

Description	Part no.	Weight
C3 Adapter assembly ▲	353047	29
AC3 Adjustable packing kit ♠	356303	1.4
C3 x 1-1/2 Drive shaft ~	243562	15
C3 x 2 Drive shaft ~	243563	16
C3 x 2 7/16 Drive shaft ~	243564	19.5
C3 x 3 Drive shaft ~	243565	26

Driveshafts listed are compatible with SCXT3A and SCXT3B revisions only.
For driveshafts compatible with older generations, please consult the Renewal Parts manual.

Accessories for SCXT305A reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M316 Standard motor mount	56T through 210T	6"-16 "	353069	44
M316/250T Special motor mount ■●	250T	6"-16 "	353070	44
M320L Long motor mount	56T through 210T	18"-20"	272627	56
SCXT3S SCD Reducer belt guard	56T through 210T	–	243418	40
SCXT3S SCD Reducer belt guard for long motor mount	56T through 210T	–	243167	48
SCXT305A Cooling fan assembly	–	–	253188	3
SCXT305A Auxiliary seal kit ♥	–	–	253146	5
SCXT305 Lube kit	–	–	LUBEKITXT305	8.1
Dodge OPTIFY sensor			750000	0.5

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	–	–

- † For a complete SCXT drive, order a reducer, drive shaft 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 G3-112 for adapter bolt pattern details
- ~ CEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.
- Dodge standard belt guards will not fit with this motor mount.
- ♥ See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

SCXT4B

Selection and dimensions
SCXT4B – Double reduction screw conveyor drives

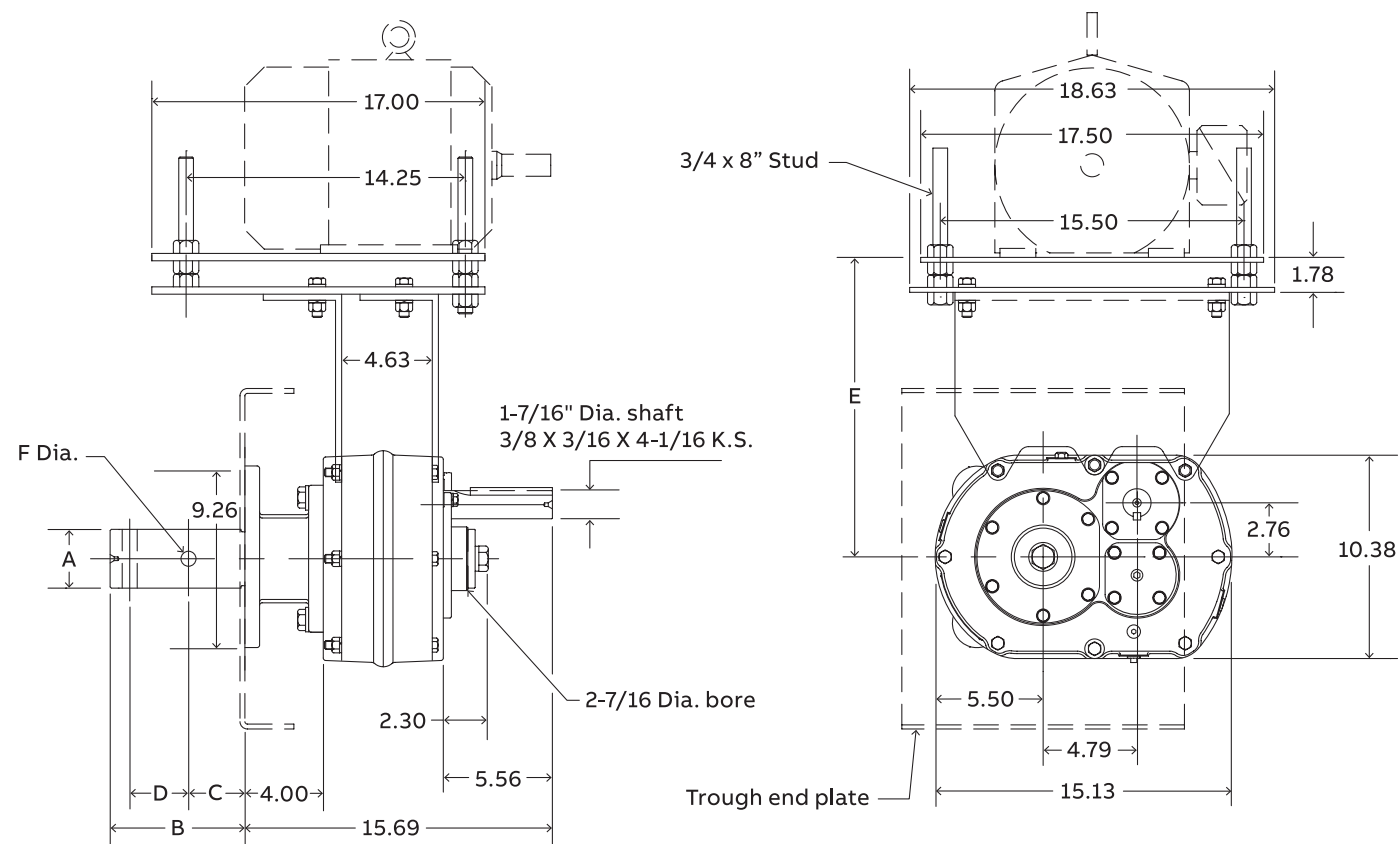
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



CEMA Drive shafts ~						
Drive shaft	Screw dia.	A	B	C	D	F Dia.
C4 x 1-1/2	9"	1.50	6.00	2.13	3.00	.52
C4 x 2	9" - 12"	2.00	6.00	2.13	3.00	.64
C4 x 2-7/16	12" - 14"	2.44	6.69	2.75	3.00	.64
C4 x 3	12" - 20"	3.00	6.88	2.88	3.00	.77
C4 x 3-7/16	18" - 24"	3.44	9.13	3.88	4.00	.89

All dimensions are in inches.

SCXT4B

Selection and dimensions

SCXT4B – Double reduction screw conveyor drives

SCXT4B screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT409B	244549	207D09	9.67	139
SCXT415B	244550	207D15	15.13	139
SCXT425B	244551	207D25	24.38	139

Description	Part no.	Weight
C4 Adapter assembly ▲	354121	33
AC4 Adjustable packing kit ♠	356304	2.1
C4 x 1-1/2 Drive shaft ~	244594	19
C4 x 2 Drive shaft ~	244595	20.80
C4 x 2 7/16 Drive shaft ~	244596	24.30
C4 x 3 Drive shaft~	244597	29.20
C4 x 3-7/16 Drive shaft ~	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 SCXT4B reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M418 Standard motor mount	140T through 280T	9"-18"	354069	86
M418/320T Special motor mount ■ ♣	320T	9"-18"	354028	90
M424L Long motor mount	140T through 280T	20"-24"	272628	100
SCXT4D SCD Reducer belt guard	140T through 280T	–	244489	44
SCXT4D SCD Reducer belt guard for long motor mount	140T through 280T	–	244152	53
SCXT4A Cooling fan assembly	–	–	272594	3
SCXT4A Auxiliary seal kit ♥	–	–	244677	5
SCXT4 Lube kit	–	–	LUBEKITXT4	10.4
Dodge OPTIFY sensor			750000	0.5

SCXT4 motor mount assembly dimensions

Motor mount	E ♦		V-belt drive center distances for various NEMA motor frames											
	Min.	Max.	56, 140		180		210		250		280		320	
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, drive shaft 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 G3-112 for adapter bolt pattern details

~ CEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

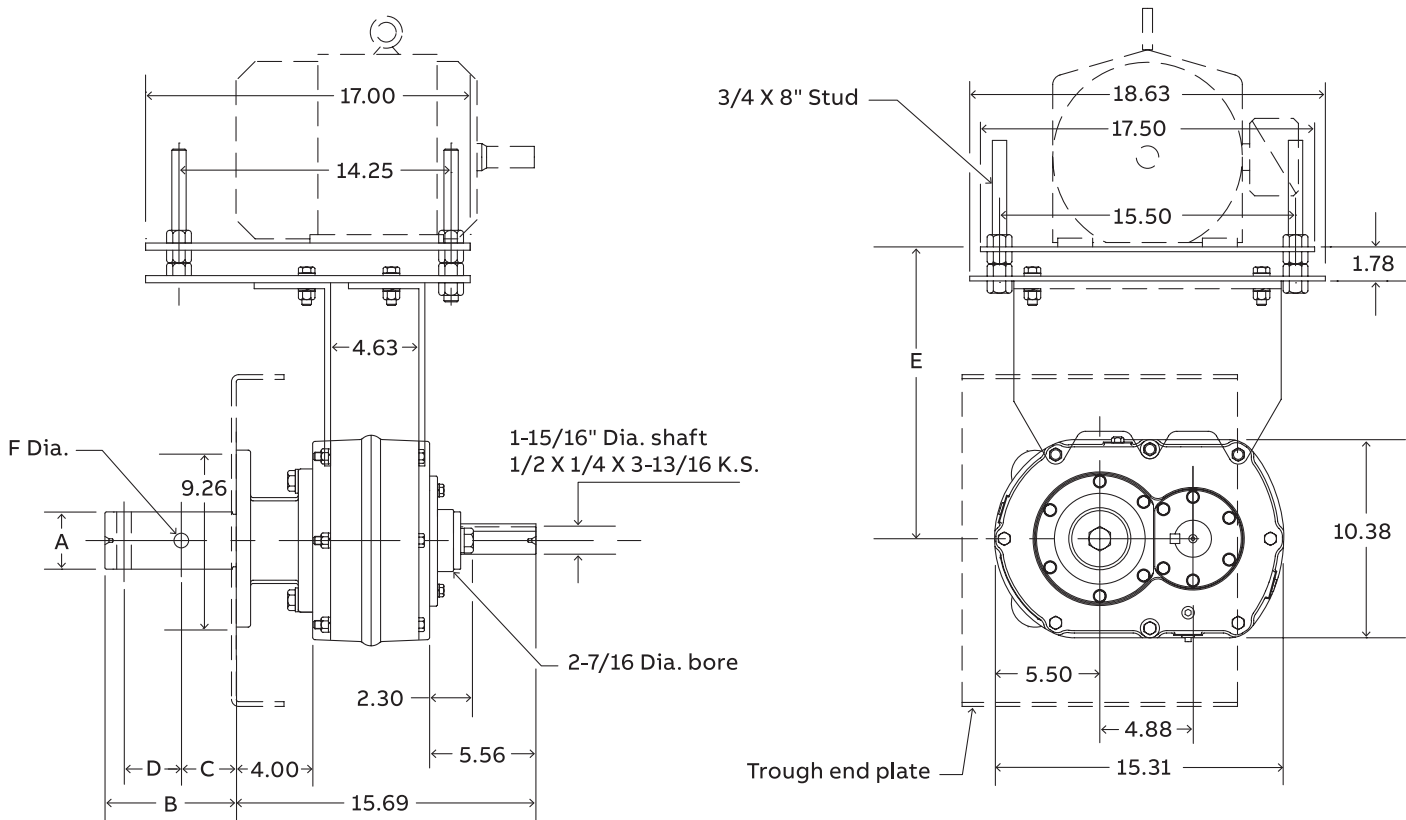
■ Dodge standard belt guards will not fit with this motor mount.

♥ See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

SCXT405A

Selection and dimensions

SCXT405A – Single reduction screw conveyor drives



CEMA Drive shafts ~						
Drive shaft	Screw dia.	A	B	C	D	F Dia.
C4 x 1-1/2	9"	1.50	6.00	2.13	3.00	.52
C4 x 2	9" - 12"	2.00	6.00	2.13	3.00	.64
C4 x 2-7/16	12" - 14"	2.44	6.69	2.75	3.00	.64
C4 x 3	12" - 20"	3.00	6.88	2.88	3.00	.77
C4 x 3-7/16	18" - 24"	3.44	9.13	3.88	4.00	.89

All dimensions are in inches.

SCXT405A

Selection and dimensions

SCXT405A – Single reduction screw conveyor drives

SCXT405A screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT405A	254208	207S05	5.65	122

Description	Part no.	Weight
C4 Adapter assembly ▲	354121	33
AC4 Adjustable packing kit ♠	356304	2.1
C4 x 1-1/2 Drive shaft ~	244594	19
C4 x 2 Drive shaft ~	244595	20.80
C4 x 2 7/16 Drive shaft ~	244596	24.30
C4 x 3 Drive shaft ~	244597	29.20
C4 x 3-7/16 Drive shaft ~	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 SCXT405A reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M418 Standard motor mount	140T through 280T	9"-18 "	354069	86
M418/320T Special motor mount ■ ♣	320T	9"-18 "	354028	90
M424L Long motor mount	140T through 280T	20"-24"	272628	100
SCXT4S SCD Reducer belt guard	140T through 280T	–	244491	50
SCXT4S SCD Reducer belt guard for long motor mount ♣	140T through 280T	–	244167	60
SCXT405A Cooling fan assembly	–	–	254268	3
SCXT405A Auxiliary seal kit ♥	–	–	254146	5
SCXT405 Lube kit	–	–	LUBEKITXT405	12.7
Dodge OPTIFY sensor			750000	0.5

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.
M418		15.3	20.1	19.6	23.7	20.6	24.7	21.4	25.5	22.4	26.5	23	27.2
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, drive shaft 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 G3-112 for adapter bolt pattern details

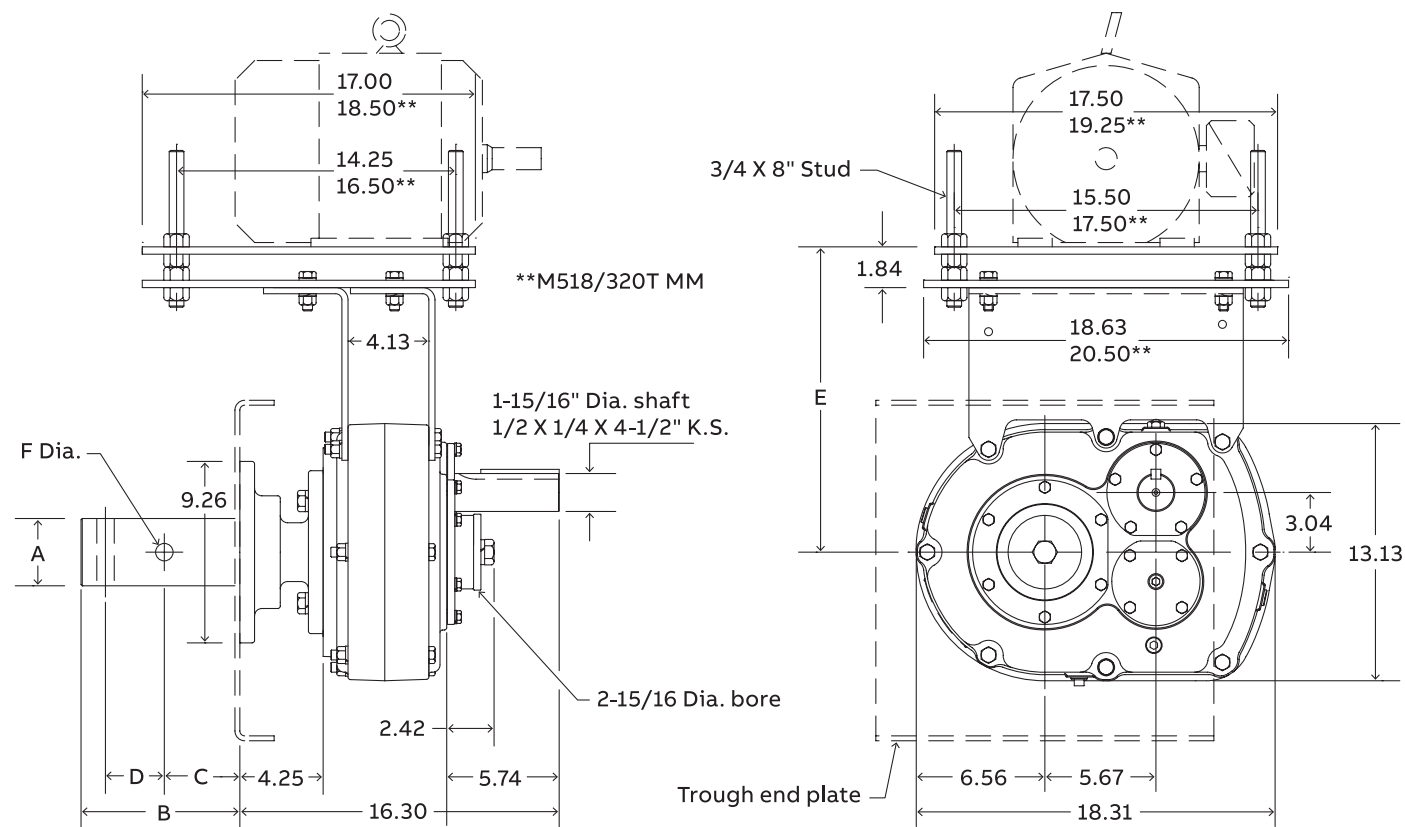
~ CEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

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

♥ See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

SCXT5C

Selection and dimensions
SCXT5C – Double reduction screw conveyor drives



CEMA Drive shafts ~						
Drive shaft	Screw dia.	A	B	C	D	F Dia.
C5B x 2	9" - 12"	2.00	6.00	2.13	3.00	.64
C5B x 2-7/16	12" - 14"	2.44	6.69	2.75	3.00	.64
C5B x 3	12" - 20"	3.00	6.88	2.88	3.00	.77
C5B x 3-7/16	18" - 24"	3.44	9.13	3.88	4.00	.89

All dimensions are in inches.

SCXT5C

Selection and dimensions

SCXT5C – Double reduction screw conveyor drives

SCXT5C screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT509C	245574 ♣	215D09	8.95	207
SCXT515C	245575	215D15	15.40	207
SCXT525C	245576	215D25	25.56	207

Description	Part no.	Weight
C5 Adapter assembly ▲	355072	43
AC5 Adjustable packing kit ♠	356305	2.1
C5B x 2 Drive shaft ~	355175	29.4
C5B x 2 7/16 Drive shaft ~	355176	33
C5B x 3 Drive shaft ~	355177	37.9
C5B x 3-7/16 Drive shaft ~	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 SCXT5C reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M518 Standard motor mount	140T through 280T	9"-18"	355169	82
M518/320T Special motor mount ■ ● ♣	320T	9"-18"	355168	82
M524L Long motor mount	140T through 280T	20"-24"	272629	110
SCXT5D SCD Reducer belt guard	140T through 280T	–	245495	45
SCXT5D SCD Reducer belt guard for long motor mount	140T through 280T	–	245103	54
SCXT5B Cooling fan assembly	–	–	272369	3
SCXT5B Auxiliary seal kit ♥	–	–	245637	6
SCXT5 Lube kit	–	–	LUBEKITXT5	18.5
Dodge OPTIFY sensor			750000	0.5

SCXT5C 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, drive shaft 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 G3-112 for adapter bolt pattern details
- ~ CEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.
- Dodge standard belt guards will not fit with this motor mount.
- ♥ See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

SCXT505A

Selection and dimensions
SCXT505A – Single reduction screw conveyor drives

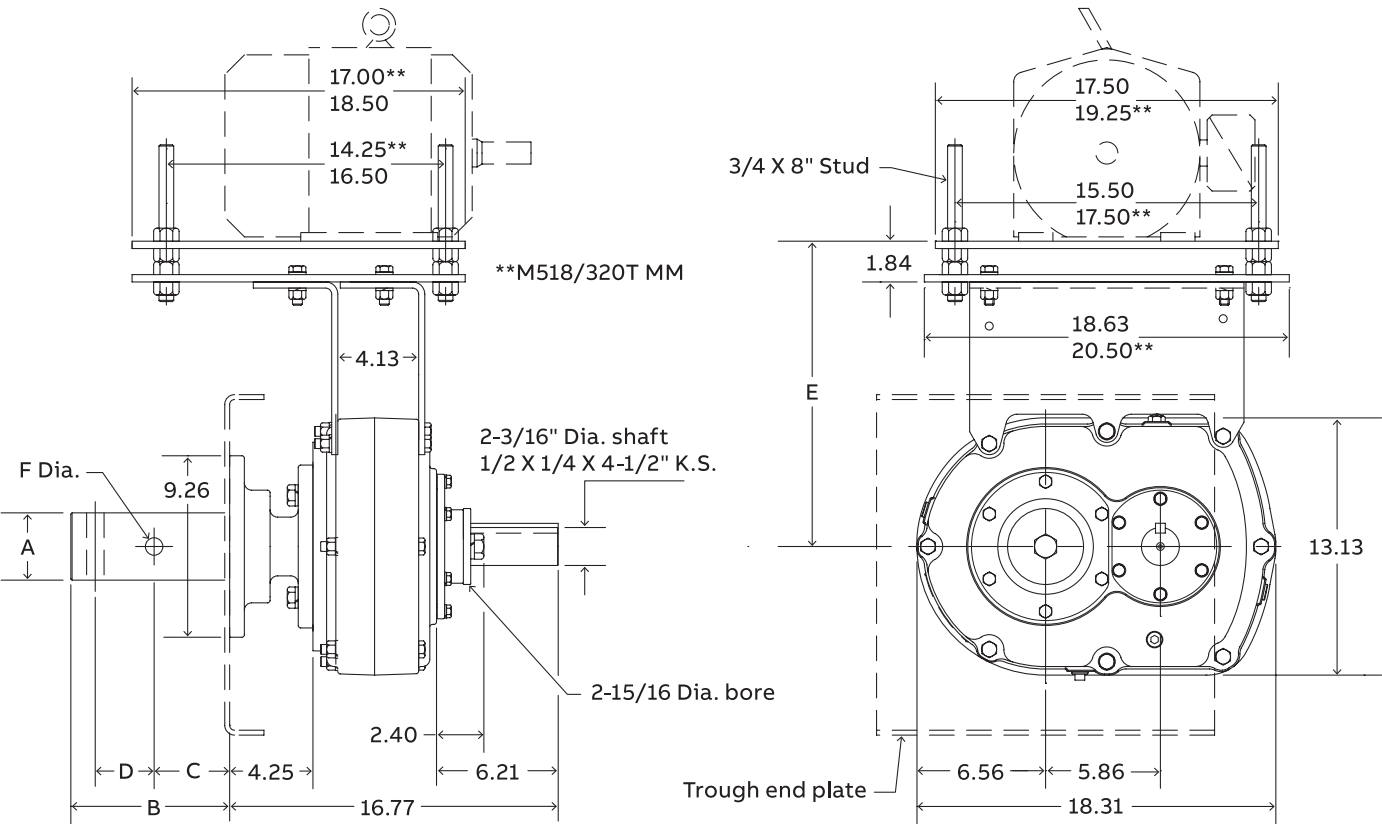
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



CEMA Drive shafts ~						
Drive shaft	Screw dia.	A	B	C	D	F Dia.
C5B x 2	9" - 12"	2.00	6.00	2.13	3.00	.64
C5B x 2-7/16	12" - 14"	2.44	6.69	2.75	3.00	.64
C5B x 3	12" - 20"	3.00	6.88	2.88	3.00	.77
C5B x 3-7/16	18" - 24"	3.44	9.13	3.88	4.00	.89

All dimensions are in inches.

SCXT505A

Selection and dimensions

SCXT505A – Single reduction screw conveyor drives

SCXT505A screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT505A	255208	215S05	5.67	182

Description	Part no.	Weight
C5 Adapter assembly ▲	355072	43
AC5 Adjustable packing kit ♠	356305	2.1
C5B x 2 Drive shaft ~	355175	29.4
C5B x 2 7/16 Drive shaft ~	355176	33
C5B x 3 Drive shaft ~	355177	37.9
C5B x 3-7/16 Drive shaft ~	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 SCXT505A reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M518 Standard motor mount	140T through 280T	9"-18"	355169	82
M518/320T Special motor mount ■ ● ♣	320T	9"-18"	355168	82
M524L Long motor mount	140T through 280T	20"-24"	272629	110
SCXT5S SCD Reducer belt guard	140T through 280T	–	245497	70
SCXT5S SCD Reducer belt guard for long motor mount ♣	140T through 280T	–	245015	84
SCXT505A Cooling fan assembly	–	–	255231	3
SCXT505A Auxiliary seal kit ♥	–	–	255148	6
SCXT505 Lube kit	–	–	LUBEKITXT505	18.5
Dodge OPTIFY sensor			750000	0.5

SCXT505A 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, drive shaft 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 G3-112 for adapter bolt pattern details

~ CEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

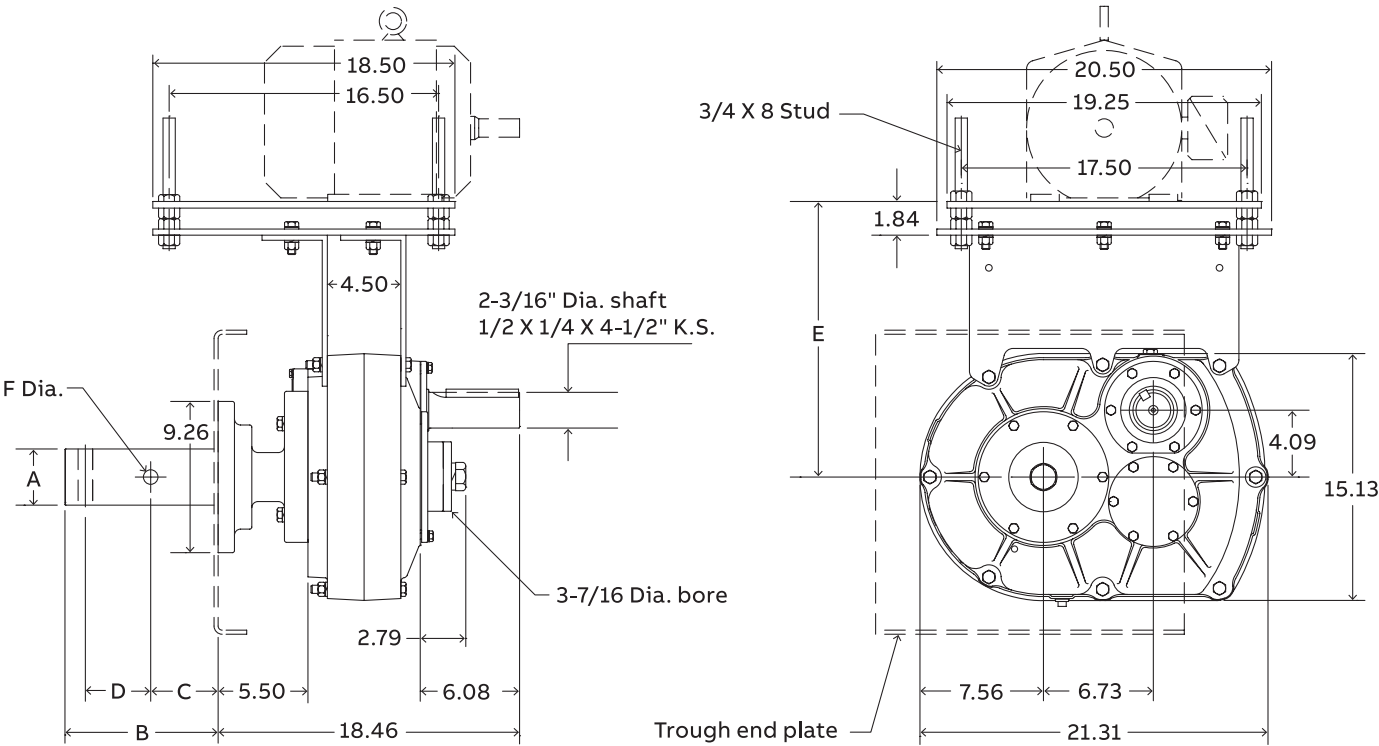
■ Dodge standard belt guards will not fit with this motor mount.

♥ See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

SCXT6A

Selection and dimensions

SCXT6A – Double reduction screw conveyor drives



CEMA Drive shafts ~						
Drive shaft	Screw dia.	A	B	C	D	F Dia.
C6 x 2-7/16	12" - 14"	2.44	6.69	2.75	3.00	.64
C6 x 3	12" - 20"	3.00	6.88	2.88	3.00	.77
C6 x 3-7/16	18" - 24"	3.44	9.13	3.88	4.00	.89

All dimensions are in inches.

SCXT6A

Selection and dimensions

SCXT6A – Double reduction screw conveyor drives

SCXT6A screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT609A	246480 ♣	307D09	9.20	285
SCXT615A	356057	307D15	15.33	285
SCXT625A	356058	307D25	25.13	285

Description	Part no.	Weight
C6 Adapter Assembly ▲	356055	56
AC6/AC7 Adjustable Packing Kit ♠	356306	2.4
C6 x 2 7/16 Drive Shaft ~	356042	47.7
C6 x 3 Drive Shaft ~	356043	52.7
C6 x 3-7/16 Drive Shaft ~	356044	63

Accessories for SCXT6A reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M620 Standard Motor Mount	140T through 320T	12"-20"	356069	105
M624L Long Motor Mount ♣	140T through 320T	24"	272630	122
SCXT6D SCD Reducer Belt Guard	140T through 320T	–	246476	60
SCXT6D SCD Reducer Belt Guard for Long Motor Mount	140T through 320T	–	246148	72
SCXT6 Cooling Fan Assembly	–	–	272325	3
SCXT6 Auxiliary Seal Kit ♥	–	–	272726	7
SCXT6 Lube Kit	–	–	LUBEKITXT6	20.8
Dodge OPTIFY sensor			750000	0.5

SCXT6A 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.
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
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

♣ Made to order.

† For a complete SCXT drive, order a reducer, drive shaft 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 G3-112 for adapter bolt pattern details.

~ CEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

♥ See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

SCXT605

Selection and dimensions

SCXT605 – Single reduction screw conveyor drives

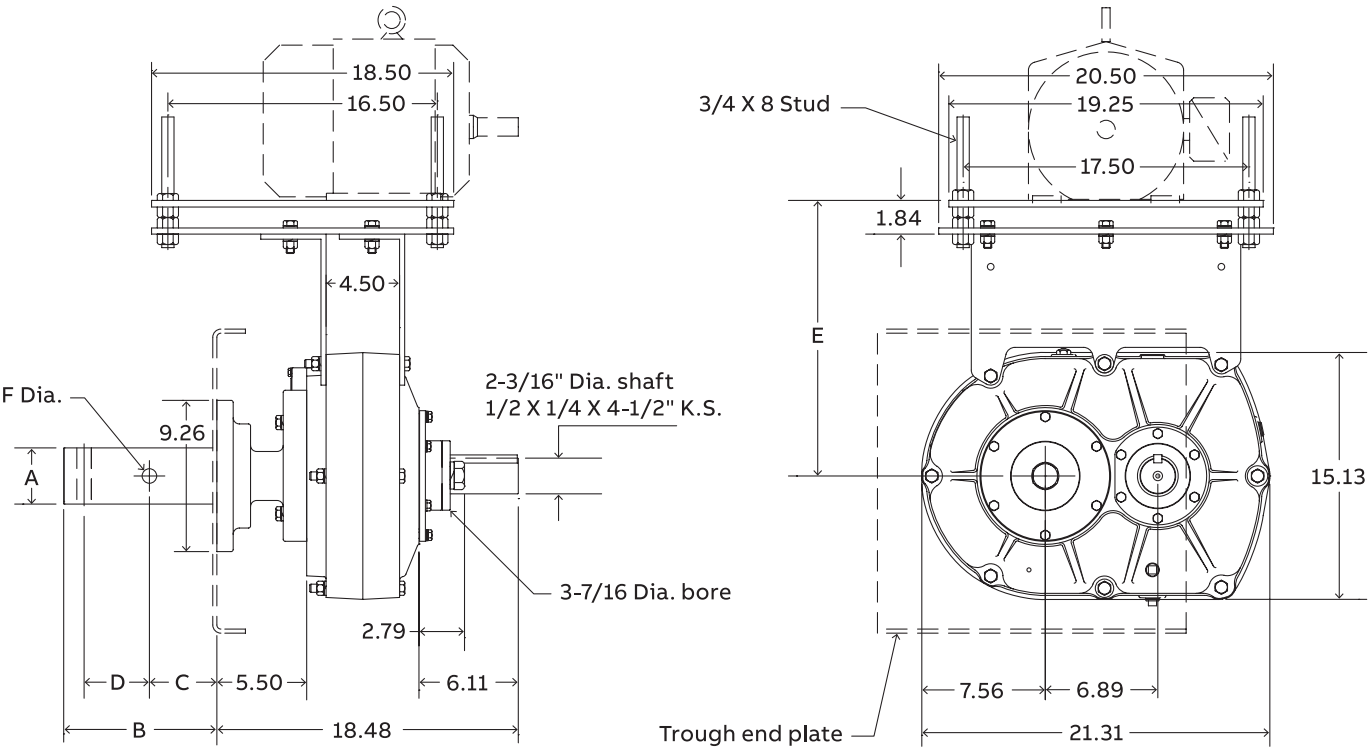
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



CEMA Drive shafts ~						
Drive shaft	Screw dia.	A	B	C	D	F Dia.
C6 x 2-7/16	12" - 14"	2.44	6.69	2.75	3.00	.64
C6 x 3	12" - 20"	3.00	6.88	2.88	3.00	.77
C6 x 3-7/16	18" - 24"	3.44	9.13	3.88	4.00	.89

All dimensions are in inches.

SCXT605

Selection and dimensions

SCXT605 – Single reduction screw conveyor drives

SCXT605 screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT605	356285	307S05	5.67	251

Description	Part no.	Weight
C6 Adapter Assembly ▲	356055	56
AC6/AC7 Adjustable Packing Kit ♣	356306	2.4
C6 x 2 7/16 Drive Shaft ~	356042	47.7
C6 x 3 Drive Shaft ~	356043	52.7
C6 x 3-7/16 Drive Shaft ~	356044	63

Accessories for SCXT605 reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M620 Standard motor mount	140T through 320T	12"-20"	356069	105
M624L Long motor mount ♣	140T through 320T	24"	272630	122
SCXT6S SCD Reducer belt guard	140T through 320T	–	246478	77
SCXT6S SCD Reducer belt Guard for long motor mount ♣	140T through 320T	–	246142	92
SCXT605 Cooling fan assembly ♣	–	–	272681	3
SCXT6 Auxiliary seal kit ♥	–	–	272726	7
SCXT605 Lube kit	–	–	LUBEKITXT605	24.3
Dodge OPTIFY sensor			750000	0.5

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, drive shaft 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 G3-112 for adapter bolt pattern details.

~ CEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

♥ See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

SCXT7A

Selection and dimensions
SCXT7A – Double reduction screw conveyor drives

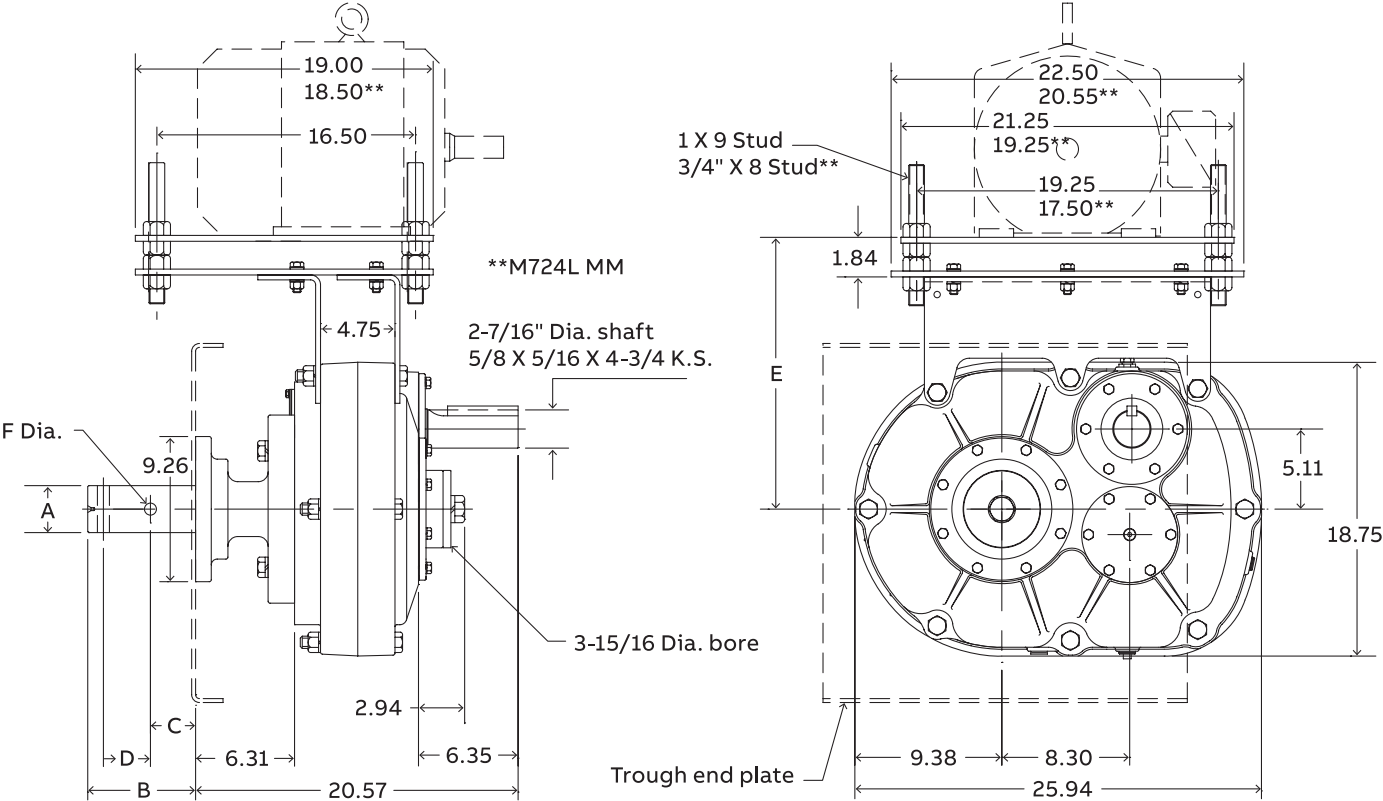
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



CEMA Drive shafts ~						
Drive shaft	Screw dia.	A	B	C	D	F Dia.
C7 x 2-7/16	12" - 14"	2.44	6.69	2.75	3.00	.64
C7 x 3	12" - 20"	3.00	6.88	2.88	3.00	.77
C7 x 3-7/16	18" - 24"	3.44	9.13	3.88	4.00	.89

All dimensions are in inches.

SCXT7A

Selection and dimensions

SCXT7A – Double reduction screw conveyor drives

SCXT7A screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT709A	247480 ♣	315D09	9.61	462
SCXT715A	356256 ♣	315D15	15.23	462
SCXT725A	356257	315D25	24.59	462

Description	Part no.	Weight
C7 Adapter Assembly ▲	356187	72
AC6/AC7 Adjustable Packing Kit ♣	356306	2.4
C7 x 2 7/16 Drive Shaft ~	356182 ♣	58
C7 x 3 Drive Shaft ~	356183	70
C7 x 3-7/16 Drive Shaft ~	356184	80.3

Accessories for SCXT7A reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M720 Standard Motor Mount	140T through 360T	12"-20"	356269	106
M724L Long Motor Mount ♣ ●	140T through 320T	24"	272631	130
SCXT7D SCD Reducer Belt Guard	140T through 360T	–	247474	75
SCXT7D SCD Reducer Belt Guard for Long Motor Mount	140T through 320T	–	247153	90
SCXT7 Cooling Fan Assembly	–	–	272326	6
SCXT7 Auxiliary Seal Kit ♥	–	–	272727	8
SCXT7 Lube Kit	–	–	LUBEKITXT7	34.7
Dodge OPTIFY sensor			750000	0.5

SCXT7A 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.
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
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, drive shaft 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 G3-112 for adapter bolt pattern details

~ CEEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

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

♥ See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

SCXT705

Selection and dimensions
SCXT705 – Single reduction screw conveyor drives

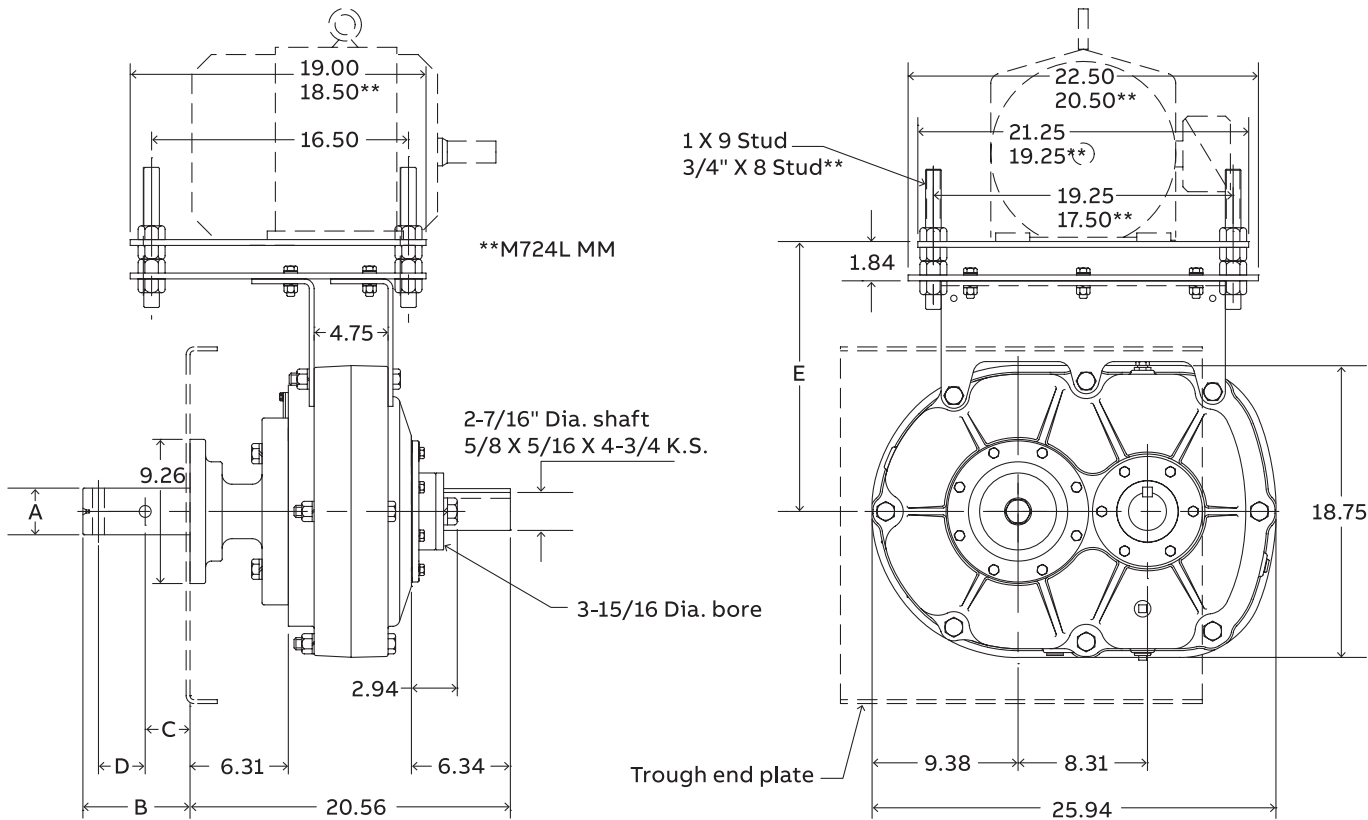
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



CEMA Drive shafts ~						
Drive shaft	Screw dia.	A	B	C	D	F Dia.
C7 x 2-7/16	12" - 14"	2.44	6.69	2.75	3.00	.64
C7 x 3	12" - 20"	3.00	6.88	2.88	3.00	.77
C7 x 3-7/16	18" - 24"	3.44	9.13	3.88	4.00	.89

All dimensions are in inches.

SCXT705

Selection and dimensions

SCXT705 – Single reduction screw conveyor drives

SCXT705 screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT705	356295 ♣	315S05	5.36	410

Description	Part no.	Weight
C7 Adapter assembly ▲	356187	72
AC6/AC7 Adjustable packing kit ♠	356306	2.4
C7 x 2 7/16 Drive shaft ~	356182 ♣	58
C7 x 3 Drive shaft ~	356183	70
C7 x 3-7/16 Drive shaft ~	356184	80.3

Accessories for SCXT705 reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M720 Standard motor mount	140T through 360T	12"-20 "	356269	106
M724L Long motor mount ♣ ●	140T through 320T	24 "	272631	130
SCXT7S SCD Reducer belt guard	140T through 360T	–	247476	84
SCXT7S SCD Reducer belt guard for long motor mount	140T through 320T	–	247149	100
SCXT705 Cooling fan assembly ♣	–	–	272685	6
SCXT705 Auxiliary seal kit ♥	–	–	272727	8
SCXT705 Lube kit	–	–	LUBEKITXT705	39.3
Dodge OPTIFY sensor			750000	0.5

SCXT705 motor mount assembly dimensions

Motor mount	E ♦	V-belt drive center distances for various NEMA motor frames													
		56, 140		180		210		250		280		320		360	
		Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
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
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, drive shaft 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 G3-112 for adapter bolt pattern details

~ CEMA drive shaft and key is furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

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

♥ See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

SCXT8A

Selection and dimensions
SCXT8A – Double reduction screw conveyor drives

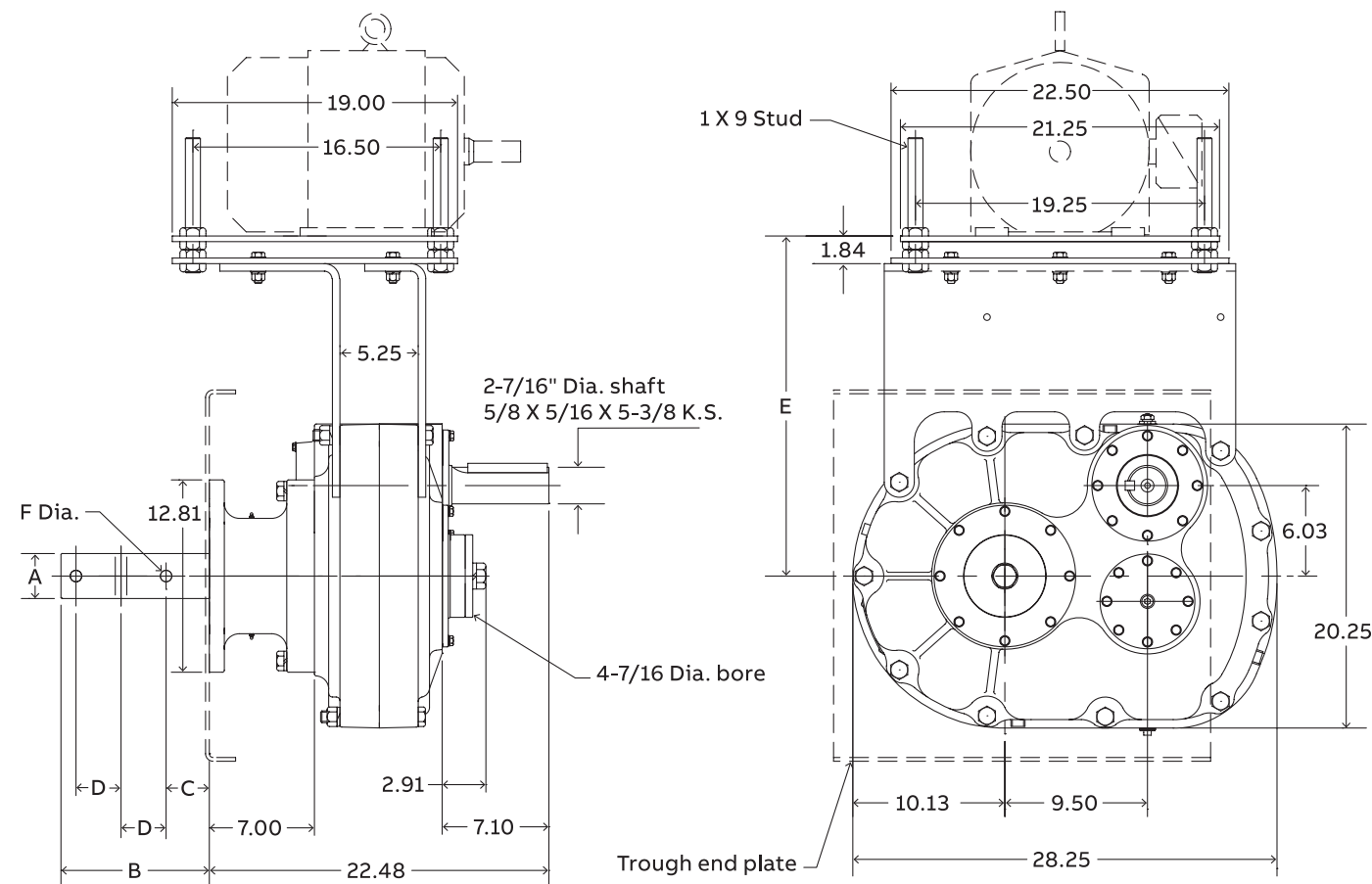
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



CEMA Drive shafts ~						
Drive shaft	Screw dia.	A	B	C	D	F Dia.
C8 x 3	12" - 20"	3.00	9.88	2.88	3.00	.77
C8 x 3-7/16	18" - 24"	3.44	13.13	3.88	4.00	.89

All dimensions are in inches.

SCXT8A

Selection and dimensions

SCXT8A – Double reduction screw conveyor drives

SCXT8A screw conveyor drives †

Reducers				
Size	Part no.	AGMA code	Ratio	Weight
SCXT815A	248464 ♣	407D15	15.08	633
SCXT825A	248465 ♣	407D25	24.62	633

Description	Part no.	Weight
C8 Adapter Assembly ▲	248470 ♣	90
C8 x 3 Drive Shaft ~	248473 ♣	88
C8 x 3-7/16 Drive Shaft ~	248474 ♣	100

Accessories for SCXT8A reducers

Description	NEMA motor frame	Screw dia.	Part no.	Weight
M824L Long Motor Mount ♣	210T through 360T	12" - 24"	248469	163
SCXT8D SCD Reducer Belt Guard ♣	210T through 360T	–	248477	113
SCXT8 Cooling Fan Assembly	–	–	272327	9
SCXT78 Auxiliary Seal Kit ♥	–	–	248484	10
SCXT78 Lube Kit	–	–	LUBEKITXT8	40.5
Dodge OPTIFY sensor			750000	0.5

SCXT8A 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.
M824		22.7	28.6	–	–	–	–	23.3	28.4	24.3	29.4	25.1	30.1	26.0	31.1

♣ Made to order

† For a complete SCXT drive, order a reducer, drive shaft 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 G3-112 for adapter bolt pattern details

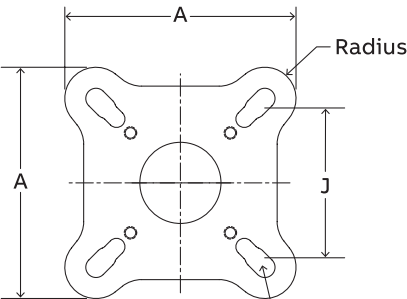
~ CEMA drive shaft and key is furnished unless otherwise specified.

♥ See pages G3-167 and G3-168 for drill and tap information required to mount to reducer.

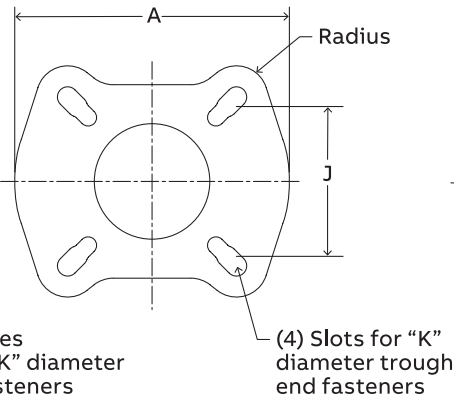
Modifications and Accessories

SCXT Screw conveyor shaft mount speed reducers

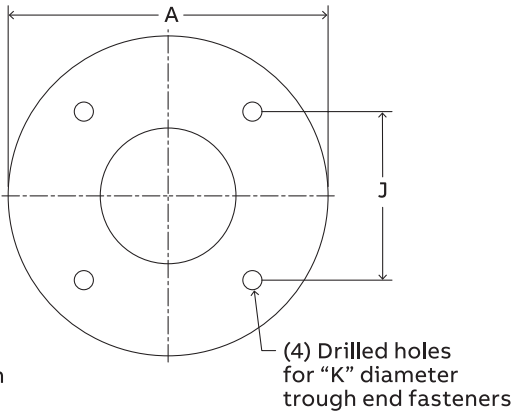
SCXT Sizes 1-6



SCXT Size 7



SCXT Size 8



Reducer size	Drive shaft 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

Adapters

SCXT Screw conveyor shaft mount speed reducers

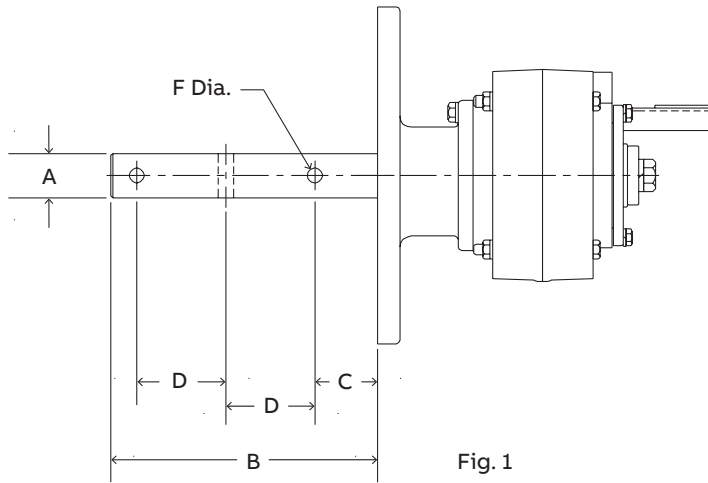


Fig. 1

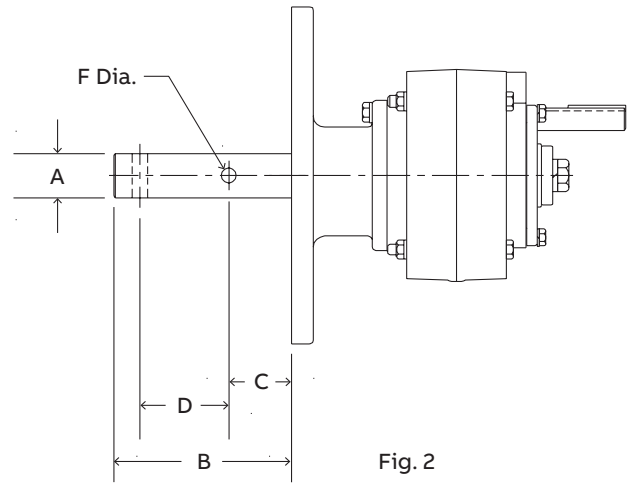


Fig. 2

Optional drive shafts for SCXT1A reducers ♣

Description	Drive shaft	Screw dia.	Part no.	Figure	A	B	C	D	F	Weight
Stainless steel * drive shafts	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 drive shafts	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 drive shafts	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 drive shafts for SCXT2A reducers ♣

Description	Drive shaft	Screw dia.	Part no.	Figure	A	B	C	D	F	Weight
Stainless steel * drive shafts	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 drive shafts	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 drive shafts	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 Screw conveyor shaft mount speed reducers

Optional drive shafts for SCXT3B and SCXT305A reducers ♣

Description	Drive shaft	Screw dia.	Part no.	Figure	A	B	C	D	F	Weight
Stainless steel * drive shafts	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 drive shafts	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 drive shafts	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 drive shafts for SCXT4B and SCXT405A reducers ♣

Description	Drive shaft	Screw dia.	Part no.	Figure	A	B	C	D	F	Weight
Stainless steel * drive shafts	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 drive shafts	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 drive shafts	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 drive shafts for SCXT5C and SCXT505A reducers ♣

Description	Drive shaft	Screw dia.	Part no.	Figure	A	B	C	D	F	Weight
Stainless steel * drive shafts	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 drive shafts	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 drive shafts	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 drive shafts

SCXT Screw conveyor shaft mount speed reducers

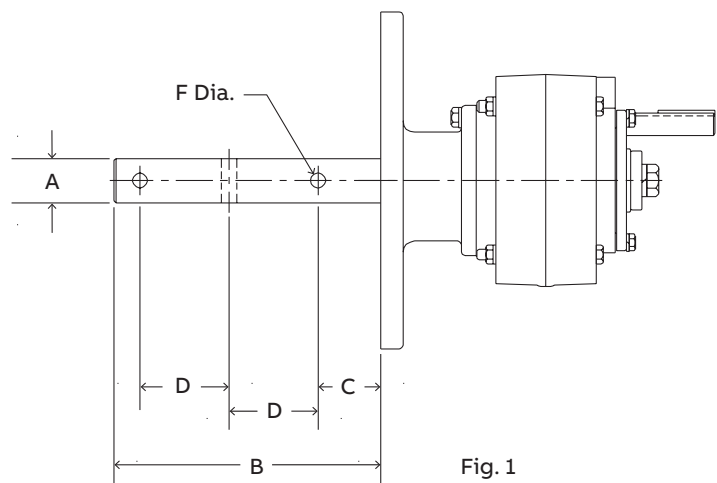


Fig. 1

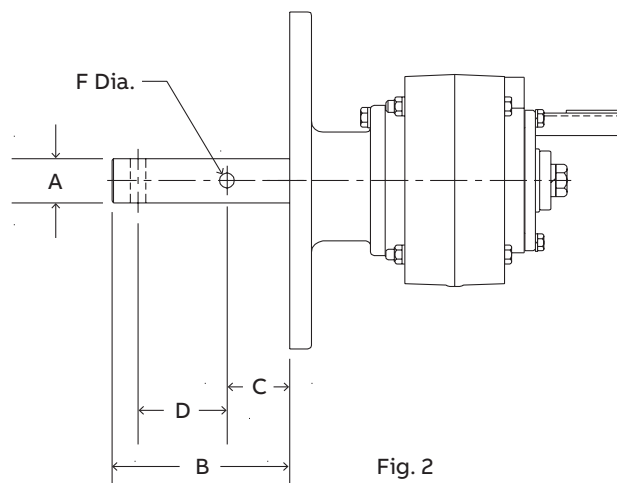


Fig. 2

Optional drive shafts for SCXT6A reducers ♣

Description	Drive shaft	Screw dia.	Part no.	Figure	A	B	C	D	F	Weight
Stainless steel * drive shafts	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 drive shafts	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 drive shafts	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 drive shafts for SCXT7A reducers ♣

Description	Drive shaft	Screw dia.	Part no.	Figure	A	B	C	D	F	Weight
Stainless steel * drive shafts	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 drive shafts	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 drive shafts	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 G3-110 and G3-111 for dimensions and part numbers for drive shafts available for SCXT8A screw conveyor drives.

Slotted metal panel belt guards

SCXT Screw conveyor shaft mount speed reducers

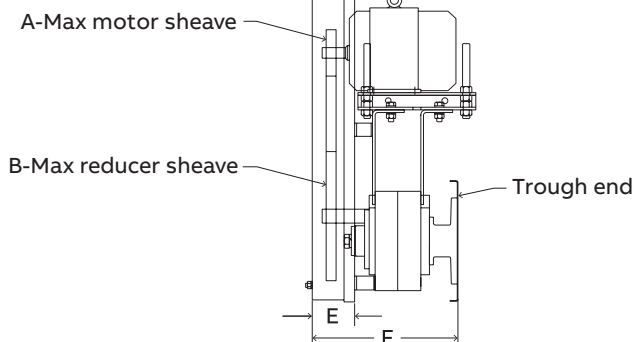
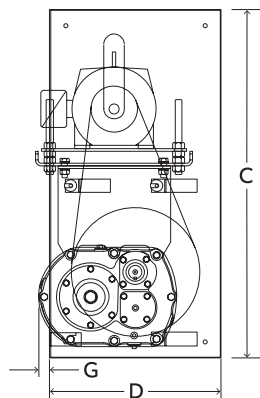
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

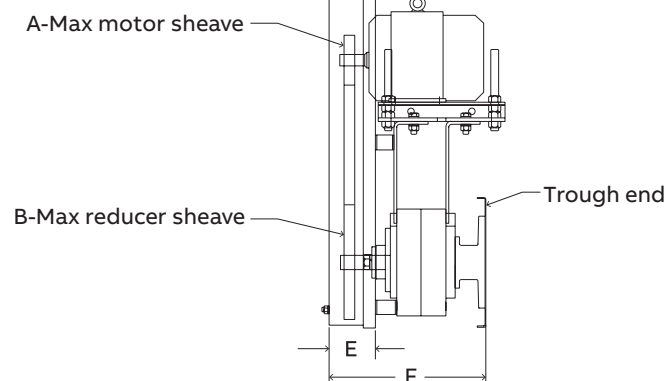
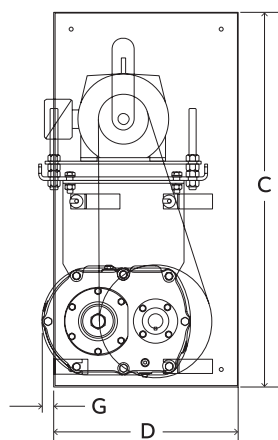
Torque-Arm

Bulk Material Handling



Belt guards for double reduction SCXT reducers (9, 15, 25:1) with standard motor mounts

Reducer size	Belt guard size	Part number	Motor mount no.	Wt.	NEMA motor frame	Center distance		A	B	C	D	E	F	G
						Min.	Max.							
SCXT1A	SCXT1D	241489	M 112L	21	56T-215T	13.5	19.0	5.0	12.0	27.5	13.0	3.5	12.5	1.00
SCXT2A	SCXT2D	242489	M 214L	32	56T-215T	14.9	20.0	5.0	12.0	30.0	14.0	3.8	13.5	0.875
SCXT3B	SCXT3D	243416 ▲	M 316L	40	56T-215T	15.8	22.0	6.0	14.0	32.5	16.0	4.0	14.6	1.06
SCXT4B	SCXT4D	244489	M 418L	44	143T-286T	16.9	24.5	7.0	15.0	37.0	17.0	5.0	16.8	1.78
SCXT5C	SCXT5D	245495 ▲	M 518L	45	143T-286T	16.6	25.2	7.0	15.0	37.0	18.0	4.3	18.9	3.25
SCXT6A	SCXT6D	246476	M 620L	60	143T-326T	17.0	25.5	8.0	18.0	41.0	20.0	6.0	21.4	4.38
SCXT7A	SCXT7D	247474	M 720L	75	143T-365T	17.1	26.0	10.0	20.0	43.0	23.0	6.0	23.5	6.25



Belt guards for single reduction SCXT reducers (5:1) with standard motor mounts

Reducer size	Belt guard size	Part number	Motor mount no.	Wt.	NEMA motor frame	Center distance		A	B	C	D	E	F	G
						Min.	Max.							
SCXT105	SCXT1S	241491	M 112	30	56T-215T	15.4	20.6	5.0 ■	12.0	31.0	13.50	3.50	12.50	0.38
SCXT205	SCXT2S	242491	M 214	34	56T-215T	17.0	22.2	6.0 ■	12.0	33.0	13.50	3.75	13.50	1.25
SCXT305A	SCXT3S	243418 ▲	M 316	40	56T-215T	18.2	24.4	7.0	12.0	35.0	13.50	4.00	14.63	2.38
SCXT405A	SCXT4S	244491	M 418	50	143T-286T	19.6	27.2	8.0	12.0	40.0	14.50	5.00	16.75	3.63
SCXT505A	SCXT5S	245497 ▲	M 518	70	143T-286T	19.7	28.2	8.0	12.0	40.0	14.50	5.50	18.91	5.68
SCXT605	SCXT6S	246478	M 620	77	143T-326T	21.1	29.6	10.0	16.0	45.0	18.00	6.00	21.44	5.97
SCXT705	SCXT7S	247476	M 720	84	143T-365T	22.1	31.0	10.0	16.0	45.5	19.00	6.00	23.53	9.25

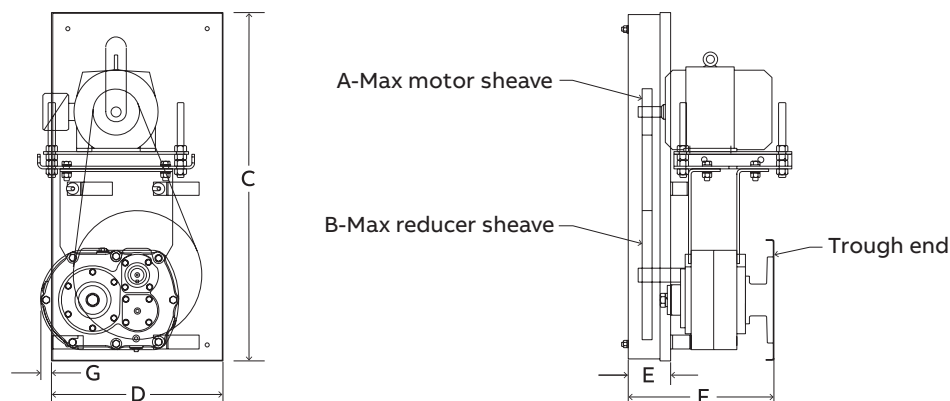
♣ Made to order

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

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

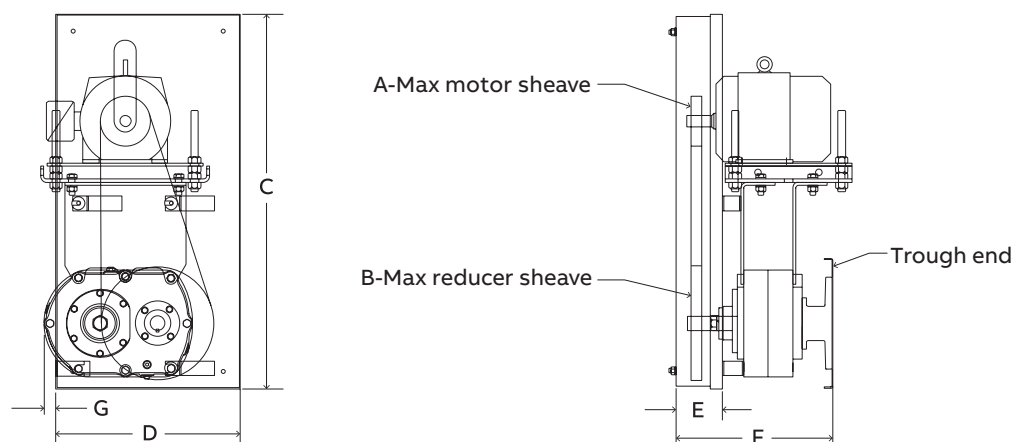
Slotted metal panel belt guards

SCXT Screw conveyor shaft mount speed reducers



Belt guards for double reduction SCXT reducers (9, 15, 25:1) with long motor mounts

Reducer size	Belt guard size	Part number	Motor mount no.	Wt.	NEMA motor frame	Center distance		A	B	C	D	E	F	G
						Min.	Max.							
SCXT1A	SCXT1DLMM	241149	M120L	26	56T-215T	19.5	25.0	5.0	12.0	33.5	13.0	3.50	12.50	1.00
SCXT2A	SCXT2DLMM	242223	M220L	37	56T-215T	20.9	26.0	5.0	12.0	36.0	14.0	3.75	13.50	0.875
SCXT3B	SCXT3DLMM	243154 ▲	M320L	45	56T-215T	21.8	27.0	6.0	14.0	38.0	16.0	4.00	14.63	1.06
SCXT4B	SCXT4DLMM	244152 ▲	M424L	50	143T-286T	23.2	30.4	7.0	15.0	43.0	17.0	5.00	16.75	1.78
SCXT5C	SCXT5DLMM	245103 ▲	M524L	52	143T-286T	22.9	30.9	7.0	15.0	43.0	18.0	4.25	18.91	3.25
SCXT6A	SCXT6DLMM	246148	M624L	65	143T-326T	23.3	31.4	8.0	18.0	47.0	20.0	6.00	21.44	4.38
SCXT7A	SCXT7DLMM	247153 ▲	M724L	80	143T-326T	23.2	30.5	10.0	20.0	49.0	23.0	6.00	23.53	6.25
SCXT8A	SCXT8DLMM	248477 ♣	M824L	113	210T-360T	23.3	32.1	12.0	25.0	53.0	28.0	6.50	24.81	5.62



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

Reducer size	Belt guard size	Part number	Motor mount no.	Wt.	NEMA motor frame	Center distance		A	B	C	D	E	F	G
						Min.	Max.							
SCXT105	SCXT1SLMM	241142	M120L	35	56T-215T	21.4	26.6	5.0 ■	12.0	37.0	13.5	3.50	12.50	0.38
SCXT205	SCXT2SLMM	242114	M220L	40	56T-215T	23.3	28.2	6.0 ■	12.0	39.0	13.5	3.75	13.50	1.25
SCXT305A	SCXT3SLMM	243167 ▲	M320L	45	56T-215T	24.2	29.4	7.0	12.0	41.0	13.5	4.00	14.63	2.38
SCXT405A	SCXT4SLMM	244167 ▲	M424L	55	143T-286T	25.9	33.2	8.0	12.0	46.0	14.5	5.00	16.75	3.63
SCXT505A	SCXT5SLMM	245015 ▲	M524L	70	143T-286T	26.0	33.2	8.0	12.0	46.0	14.5	5.50	18.91	5.68
SCXT605	SCXT6SLMM	246142	M624L	82	143T-326T	27.4	35.5	10.0	16.0	51.0	18.0	6.00	21.44	5.97
SCXT705	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

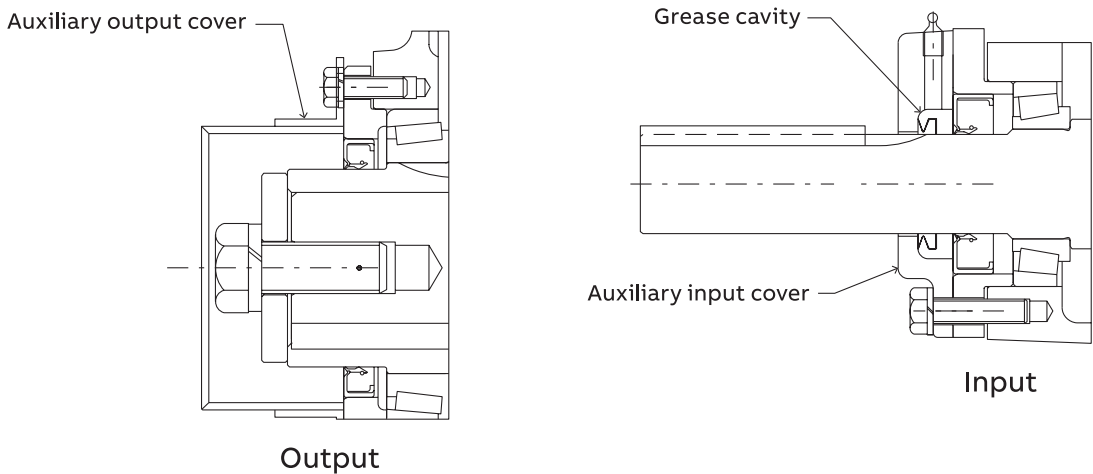
▲ These belt guards do not fit the larger frame, higher H.P. motor mounts in SCXT Selection/Dimension pages. Consult Dodge for special belt guard.

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

Auxiliary seal kit

SCXT Screw conveyor shaft mount speed reducers

Screw conveyor drives often operate in harsh environments in which the input shaft side of the reducer ends up turning in such materials as sand, cement, saw dust and grain. These materials are very abrasive and often damage seals, bearings and gears. These damages can lead to costly repair bills and downtime. To help prevent these maintenance problems Dodge offers an auxiliary seal kit to protect the input side of the reducer. The kit contains a drive shaft end cover, special filter breather and a grease purged input seal with necessary mounting hardware. The auxiliary seals prevent contaminants from getting to the seal area and thus prevents them from entering the reducer. Use the auxiliary seal kit to get the longest possible life out of your Dodge screw conveyor drive Reducer. Reducer housings on sizes SCXT1 and SCXT2 must be drilled and tapped to accommodate the input auxiliary seal.



Auxiliary seal kits for SCXT reducers ♦

Reducer size	Nominal ratio	Part number	Nominal ratio	Part number ♣
SCXT1A	9, 15, 25	272721	5	251146
SCXT2A	9, 15, 25	272722	5	252146
SCXT3B	9, 15, 25	243582	5	253146
SCXT4B	9, 15, 25	244677	5	254146
SCXT5C	9, 15, 25	245637	5	255148
SCXT6A	5, 9, 15, 25	272726	–	–
SCXT7A	5, 9, 15, 25	272727	–	–
SCXT8A	15, 25	248484 ♣	–	–

Input auxiliary seal for SCXT reducers ● ■

Reducer size	Nominal ratio	Part number	Nominal ratio	Part number
SCXT1A	9, 15, 25	241102	5	241109
SCXT2A	9, 15, 25	242102 ♣	5	242109 ♣
SCXT3B	9, 15, 25	243108	5	243109
SCXT4B	9, 15, 25	244117	5	244159 ♣
SCXT5C	9, 15, 25	245104	5	245106 ♣
SCXT6A	5, 9, 15, 25	246102	–	–
SCXT7A	5, 9, 15, 25	247102 ♣	–	–
SCXT8A	15, 25	248102	–	–

- ♣ Made to order
- ♦ Auxiliary seal kit consists of drive shaft end cover, filter breather, grease purged input seal and all mounting hardware.
- Input auxiliary seals cannot be used on the same input shaft with a cooling fan
- Guard will interfere with floor when used with 6" screw unless trough is raised above floor.

Selection

Hydraulic gearboxes

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, (864) 284-5700.

How to select

Step 1: Determine class of service

See the table on page G1-7 to determine load classification for applications under normal conditions. Find the type application and duty cycle that most closely matches your specific application.

Class I – Steady load not exceeding motor Hp rating and light shock loads during 10 hours a day. Moderate shock loads are allowable if operation is intermittent.

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

Class II – Steady load not exceeding motor Hp rating for over 10 hours a day. Moderate shock loads are allowable during 10 hours a day.

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

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

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

Step 2: Determine reducer size

See the easy selection tables, pages G3-120 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 G3-135 for maximum hydraulic motor starting pressure for Hydroil vane motors.

Step 3: Compare hollow shaft bore

with the size of the driven shaft. All Dodge Torque-Arm taper bushed reducers require bushings. Refer to TXT reducer pages for available bushings. If the driven shaft is larger than the bore of the selected reducer, the shaft must be machined to the proper size, or select a larger reducer. Check driven shaft and key for strength.

Step 4: Check dimensions

See “Selection and dimensions” sections, pages G3-136 through G3-143 for reducer dimensions, weights and part numbers. See “Engineering and Technical” section, pages G3-162 through G3-166 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 Torque-Arm 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". 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 G3-124, 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 G3-33. Be sure to check driven shaft and key for strength.

Step 4: Check dimensions and weights See Selection/ Dimensions section, page G3-136, for reducer dimensions, weights, part numbers and other pertinent drive dimensions. See “Engineering and technical” section, pages G3-162 and G3-166 for information on reducer and torque-arm rod mounting positions.

Step 5: Select a Hydroil vane motor See “Selection and dimension” page G3-140. 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 G3-143 for the motor part numbers and dimensions.

Class I – double reduction

HXT reducers

HXT115A - HXT725B

Reducer size	Requirements ~	Output speed												
		10	15	20	25	30	35	40	45	50	55	60	65	70
HXT115A	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.)	4025	3776	3651	3577	3527	3491	3465	3396	3342	3298	3260	3229	3202
	Starting torque (lb.-in.)	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025
	Running pressure (psi)	1685	1581	1529	1498	1477	1462	1451	1422	1399	1381	1365	1352	1341
	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
HXT125A	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.)	3403	3403	3403	3403	3403	3403	3403	3396	3342	3298	3260	3229	3202
	Starting torque (lb.-in.)	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868
	Running pressure (psi)	2000	2000	2000	2000	2000	2000	2000	1996	1964	1938	1916	1898	1882
	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
HXT215A	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.)	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387
	Starting torque (lb.-in.)	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697
	Running pressure (psi)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
	Flow rate (gpm)	2.2	2.6	2.9	3.3	3.6	4.0	4.3	4.7	5.0	5.4	5.7	6.1	6.4
HXT225A	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.)	7245	6824	6613	6486	6402	6342	6297	6171	6070	5988	5919	5861	5811
	Starting torque (lb.-in.)	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152
	Running pressure (psi)	1985	1870	1812	1777	1754	1737	1725	1691	1663	1640	1622	1606	1592
	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
HXT315B	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.)	11098	10894	10791	10730	10689	10660	10638	10379	10171	10001	9860	9740	9637
	Starting torque (lb.-in.)	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190
	Running pressure (psi)	1523	1495	1481	1473	1467	1463	1460	1425	1396	1373	1353	1337	1323
	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
HXT325B	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.)	7689	7689	7689	7689	7689	7689	7689	7689	7689	7689	7689	7689	7689
	Starting torque (lb.-in.)	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479
	Running pressure (psi)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
	Flow rate (gpm)	2.7	3.4	4.0	4.6	5.2	5.8	6.4	7.0	7.6	8.3	8.9	9.5	10.1
HXT415B	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.)	16676	16229	16005	15871	15781	15717	15669	15424	15227	15066	14932	14818	14721
	Starting torque (lb.-in.)	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479
	Running pressure (psi)	2251	2191	2161	2142	2130	2122	2115	2082	2056	2034	2016	2000	1987
	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
HXT425B	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.)	16676	16229	16005	15871	15781	15717	15669	15424	15227	15066	14932	14818	14721
	Starting torque (lb.-in.)	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164
	Running pressure (psi)	1397	1360	1341	1330	1322	1317	1313	1292	1276	1262	1251	1241	1233
	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 – double reduction

HXT reducers

Class I selection table HXT reducers – double reduction – HXT115A - HXT725B

Reducer size	Requirements ~	Output speed													
		75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT115A	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.)	3179	3158	3140	3124	3099	3076	3056	3037	3020	3005	2983	2964	2945	2929
	Starting torque (lb.-in.)	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025
	Running pressure (psi)	1331	1322	1315	1308	1298	1288	1280	1272	1265	1258	1249	1241	1233	1226
	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
HXT125A	Output Hp (run)	3.8	4.0	4.2	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	3179	3158	3140	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	2868	2868	2868	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	1868	1856	1845	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	5.0	5.2	5.5	–	–	–	–	–	–	–	–	–	–	–
HXT215A	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.)	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387	4387
	Starting torque (lb.-in.)	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697
	Running pressure (psi)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
	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
HXT225A	Output Hp (run)	6.9	7.3	7.7	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	5768	5730	5697	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	6152	6152	6152	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	1580	1570	1561	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	9.9	10.5	11.1	–	–	–	–	–	–	–	–	–	–	–
HXT315B	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.)	9549	9471	9402	9341	9172	9020	8883	8758	8644	8351	7916	7515	7096	6753
	Starting torque (lb.-in.)	17190	17190	17190	17190	17190	17190	17190	17190	17190	17078	16862	16663	16478	16306
	Running pressure (psi)	1311	1300	1291	1282	1259	1238	1219	1202	1186	1146	1087	1031	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
HXT325B	Output Hp (run)	9.1	9.8	10.4	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	7689	7689	7689	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	6479	6479	6479	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	2000	2000	2000	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	10.7	11.3	11.9	–	–	–	–	–	–	–	–	–	–	–
HXT415B	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.)	14636	14563	14497	14440	14295	13866	12905	12032	11235	10504	9832	9211	8637	8103
	Starting torque (lb.-in.)	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479
	Running pressure (psi)	1976	1966	1957	1949	1930	1872	1742	1624	1517	1418	1327	1244	1166	1094
	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
HXT425B	Output Hp (run)	17.4	18.5	19.6	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	14636	14563	14497	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	28164	28164	28164	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	1226	1220	1215	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	30.3	32.2	34.1	–	–	–	–	–	–	–	–	–	–	–

~ See Page G3-135 for definition of requirements.

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Class I – double reduction

HXT reducers

HXT115A - HXT725B

Reducer size	Requirements ~	Output speed												
		10	15	20	25	30	35	40	45	50	55	60	65	70
HXT515C	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.)	28751	27474	26835	26451	26196	26013	25876	25046	24381	23838	23384	23001	22329
	Starting torque (lb.-in.)	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924
	Running pressure (psi)	2125	2031	1983	1955	1936	1923	1913	1851	1802	1762	1728	1700	1650
	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
HXT525C	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.)	28751	27474	26835	26451	26196	26013	25876	25046	24381	23838	23384	23001	22329
	Starting torque (lb.-in.)	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528
	Running pressure (psi)	2298	2195	2144	2114	2093	2079	2068	2001	1948	1905	1869	1838	1784
	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
HXT615A	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.)	33671	33671	33671	33671	33671	33671	33671	33671	33671	33671	33671	33671	33671
	Starting torque (lb.-in.)	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779
	Running pressure (psi)	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
	Flow rate (gpm)	11.0	13.1	15.3	17.4	19.5	21.7	23.8	26.0	28.1	30.3	32.4	34.5	36.7
HXT625A	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.)	45427	43830	43031	42552	42233	42004	41833	40699	39792	39050	38431	37908	37365
	Starting torque (lb.-in.)	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094
	Running pressure (psi)	2058	1985	1949	1927	1913	1903	1895	1843	1802	1769	1741	1717	1692
	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
HXT715A	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.)	60533	60533	60533	59918	59483	59173	58940	57937	57135	56478	55931	55468	50060
	Starting torque (lb.-in.)	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132
	Running pressure (psi)	2500	2500	2500	2475	2457	2444	2434	2393	2360	2333	2310	2291	2067
	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
HXT725A	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.)	54009	54009	54009	54009	54009	54009	54009	54009	54009	54009	54009	54009	50060
	Starting torque (lb.-in.)	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975
	Running pressure (psi)	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2317
	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 – double reduction

HXT reducers

Class I selection table HXT reducers – double reduction – HXT115A - HXT725B

Reducer size	Requirements ~	Output speed													
		75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT515C	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.)	20336	18514	16980	15616	14396	13298	12305	11345	10522	9769	9076	–	–	–
	Starting torque (lb.-in.)	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	–	–	–
	Running pressure (psi)	1503	1368	1255	1154	1064	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	–	–	–
HXT525C	Output Hp (run)	24.2	23.5	–	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	20336	18514	–	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	29528	29528	–	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	1625	1479	–	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	32.3	34.1	–	–	–	–	–	–	–	–	–	–	–	–
HXT615A	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.)	33277	29622	26471	23599	21097	18781	16687	14840	13098	11555	10084	–	–	–
	Starting torque (lb.-in.)	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	–	–	–
	Running pressure (psi)	2471	2199	1965	1752	1566	1395	1239	1102	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	–	–	–
HXT625A	Output Hp (run)	39.6	37.6	–	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	33277	29622	–	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	52094	52094	–	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	1507	1342	–	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	56.7	59.8	–	–	–	–	–	–	–	–	–	–	–	–
HXT715A	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.)	44958	40494	36555	33053	29854	27101	24610	22345	20278	18382	–	–	–	–
	Starting torque (lb.-in.)	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	–	–	–	–
	Running pressure (psi)	1857	1672	1510	1365	1233	1119	1016	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	–	–	–	–
HXT725A	Output Hp (run)	53.5	–	–	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	44958	–	–	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	50975	–	–	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	2081	–	–	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	57.1	–	–	–	–	–	–	–	–	–	–	–	–	–

~ See Page G3-135 for definition of requirements.

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Class II – double reduction

HXT reducers

Class II selection table HXT reducers – double reduction – HXT115A - HXT725B

Reducer size	Requirements ~	Output speed												
		10	15	20	25	30	35	40	45	50	55	60	65	70
HXT115A	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.)	2875	2697	2608	2555	2519	2494	2475	2426	2387	2355	2329	2306	2287
	Starting torque (lb.-in.)	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025
	Running pressure (psi)	1204	1129	1092	1070	1055	1044	1036	1016	1000	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
HXT125A	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.)	2875	2697	2608	2555	2519	2494	2475	2426	2387	2355	2329	2306	2287
	Starting torque (lb.-in.)	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868
	Running pressure (psi)	1690	1585	1533	1501	1480	1465	1454	1426	1403	1384	1369	1355	1344
	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
HXT215A	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.)	4387	4387	4387	4387	4387	4387	4387	4387	4336	4277	4228	4186	4151
	Starting torque (lb.-in.)	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697
	Running pressure (psi)	2000	2000	2000	2000	2000	2000	2000	2000	1976	1950	1927	1908	1892
	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
HXT225A	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.)	5175	4874	4723	4633	4573	4530	4498	4408	4336	4277	4228	4186	4151
	Starting torque (lb.-in.)	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152
	Running pressure (psi)	1418	1335	1294	1269	1253	1241	1232	1208	1188	1172	1158	1147	1137
	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
HXT315B	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.)	7927	7781	7708	7664	7635	7614	7599	7413	7265	7144	7043	6957	6884
	Starting torque (lb.-in.)	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190
	Running pressure (psi)	1088	1068	1058	1052	1048	1045	1043	1018	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
HXT325B	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.)	7689	7689	7689	7664	7635	7614	7599	7413	7265	7144	7043	6957	6884
	Starting torque (lb.-in.)	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479
	Running pressure (psi)	2000	2000	2000	1994	1986	1981	1977	1928	1890	1858	1832	1810	1791
	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
HXT415B	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.)	11911	11592	11432	11336	11272	11227	11192	11017	10876	10761	10665	10584	10515
	Starting torque (lb.-in.)	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479
	Running pressure (psi)	1608	1565	1543	1530	1522	1516	1511	1487	1468	1453	1440	1429	1419
	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
HXT425B	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.)	11911	11592	11432	11336	11272	11227	11192	11017	10876	10761	10665	10584	10515
	Starting torque (lb.-in.)	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164
	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 – double reduction

HXT reducers

Class II selection table HXT reducers – double reduction – HXT115A - HXT725B

Reducer size	Requirements ~	Output speed													
		75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT115A	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.)	2271	2256	2243	2232	2214	2197	2183	2169	2157	2146	2131	2117	2104	2092
	Starting torque (lb.-in.)	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025
	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
HXT125A	Output Hp (run)	2.7	2.9	3.0	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	2271	2256	2243	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	2868	2868	2868	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	1334	1326	1318	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	4.7	5.0	5.3	–	–	–	–	–	–	–	–	–	–	–
HXT215A	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.)	4120	4093	4069	4048	4010	3976	3945	3917	3891	3868	3847	3828	3810	3793
	Starting torque (lb.-in.)	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697
	Running pressure (psi)	1878	1866	1855	1845	1828	1812	1798	1786	1774	1763	1754	1745	1737	1729
	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
HXT225A	Output Hp (run)	4.9	5.2	5.5	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	4120	4093	4069	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	6152	6152	6152	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	1129	1121	1115	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	9.6	10.2	10.7	–	–	–	–	–	–	–	–	–	–	–
HXT315B	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.)	6820	6765	6716	6672	6552	6443	6345	6256	6174	6099	6022	5951	5885	5824
	Starting torque (lb.-in.)	17190	17190	17190	17190	17190	17190	17190	17190	17190	17078	16862	16663	16478	16306
	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
HXT325B	Output Hp (run)	8.1	8.6	9.1	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	6820	6765	6716	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	6479	6479	6479	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	1774	1760	1747	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	10.5	11.1	11.7	–	–	–	–	–	–	–	–	–	–	–
HXT415B	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.)	10455	10402	10355	10314	10211	10118	10034	9957	9887	9823	9693	9211	8637	8103
	Starting torque (lb.-in.)	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479
	Running pressure (psi)	1411	1404	1398	1392	1378	1366	1355	1344	1335	1326	1309	1244	1166	1094
	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
HXT425B	Output Hp (run)	12.4	13.2	14.0	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	10455	10402	10355	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	28164	28164	28164	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	876	871	868	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	29.8	31.7	33.6	–	–	–	–	–	–	–	–	–	–	–

~ See Page G3-135 for definition of requirements.

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Class II – double reduction

HXT reducers

Class II selection table HXT reducers – double reduction – HXT115A - HXT725B

Reducer size	Requirements ~	Output speed												
		10	15	20	25	30	35	40	45	50	55	60	65	70
HXT515C	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.)	20537	19624	19168	18894	18711	18581	18483	17890	17415	17027	16703	16429	16195
	Starting torque (lb.-in.)	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924
	Running pressure (psi)	1518	1450	1417	1396	1383	1373	1366	1322	1287	1258	1235	1214	1197
	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
HXT525C	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.)	20537	19624	19168	18894	18711	18581	18483	17890	17415	17027	16703	16429	16195
	Starting torque (lb.-in.)	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528
	Running pressure (psi)	1641	1568	1532	1510	1495	1485	1477	1430	1392	1361	1335	1313	1294
	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
HXT615A	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.)	32448	31307	30737	30394	30166	30003	29881	29071	28423	27893	27451	27077	26756
	Starting torque (lb.-in.)	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779
	Running pressure (psi)	2409	2325	2282	2257	2240	2228	2219	2158	2110	2071	2038	2010	1987
	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
HXT625A	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.)	32448	31307	30737	30394	30166	30003	29881	29071	28423	27893	27451	27077	26756
	Starting torque (lb.-in.)	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094
	Running pressure (psi)	1470	1418	1392	1377	1366	1359	1353	1317	1287	1263	1243	1226	1212
	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
HXT715A	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.)	45591	44040	43264	42798	42488	42266	42100	41384	40811	40342	39951	39620	39337
	Starting torque (lb.-in.)	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132
	Running pressure (psi)	1883	1819	1787	1768	1755	1746	1739	1709	1685	1666	1650	1636	1625
	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
HXT725A	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.)	45591	44040	43264	42798	42488	42266	42100	41384	40811	40342	39951	39620	39337
	Starting torque (lb.-in.)	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975
	Running pressure (psi)	2110	2039	2003	1981	1967	1956	1949	1916	1889	1867	1849	1834	1821
	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 – double reduction

HXT reducers

Class II selection table HXT reducers – double reduction – HXT115A - HXT725B

Reducer size	Requirements ~	Output speed													
		75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT515C	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.)	15991	15813	15656	15517	14396	13298	12305	11344	10522	9769	9076	–	–	–
	Starting torque (lb.-in.)	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	–	–	–
	Running pressure (psi)	1182	1169	1157	1147	1064	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	–	–	–
HXT525C	Output Hp (run)	19.0	20.1	–	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	15991	15813	–	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	29528	29528	–	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	1278	1264	–	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	31.8	33.8	–	–	–	–	–	–	–	–	–	–	–	–
HXT615A	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.)	26479	26236	26021	23599	21097	18781	16687	14840	13098	11555	10084	–	–	–
	Starting torque (lb.-in.)	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	–	–	–
	Running pressure (psi)	1966	1948	1932	1752	1566	1395	1239	1102	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	–	–	–
HXT625A	Output Hp (run)	31.5	33.3	–	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	26479	26236	–	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	52094	52094	–	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	1199	1188	–	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	55.9	59.4	–	–	–	–	–	–	–	–	–	–	–	–
HXT715A	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.)	39091	38876	36555	33053	29854	27101	24610	22345	20278	18382	–	–	–	–
	Starting torque (lb.-in.)	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	–	–	–	–
	Running pressure (psi)	1614	1606	1510	1365	1233	1119	1016	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	–	–	–	–
HXT725A	Output Hp (run)	46.5	–	–	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	39091	–	–	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	50975	–	–	–	–	–	–	–	–	–	–	–	–	–
	Running pressure (psi)	1809	–	–	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	56.4	–	–	–	–	–	–	–	–	–	–	–	–	–

~ See Page G3-135 for definition of requirements.

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Class III – double reduction

HXT reducers

Class III selection table HXT reducers – double reduction – HXT115A - HXT725B

Reducer size	Requirements ~	Output speed												
		10	15	20	25	30	35	40	45	50	55	60	65	70
HXT115A	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.)	2013	1888	1826	1788	1763	1746	1732	1698	1671	1649	1630	1615	1601
	Starting torque (lb.-in.)	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025
	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
HXT125A	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.)	2013	1888	1826	1788	1763	1746	1732	1698	1671	1649	1630	1615	1601
	Starting torque (lb.-in.)	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868	2868
	Running pressure (psi)	1183	1110	1073	1051	1036	1026	1018	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
HXT215A	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.)	3623	3412	3306	3243	3201	3171	3148	3085	3035	2994	2959	2930	2906
	Starting torque (lb.-in.)	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697
	Running pressure (psi)	1651	1555	1507	1478	1459	1445	1435	1406	1383	1365	1349	1336	1324
	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
HXT225A	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.)	3623	3412	3306	3243	3201	3171	3148	3085	3035	2994	2959	2930	2906
	Starting torque (lb.-in.)	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152	6152
	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
HXT315B	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.)	5549	5447	5396	5365	5345	5330	5319	5189	5086	5001	4930	4870	4819
	Starting torque (lb.-in.)	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190	17190
	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
HXT325B	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.)	5549	5447	5396	5365	5345	5330	5319	5189	5086	5001	4930	4870	4819
	Starting torque (lb.-in.)	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479	6479
	Running pressure (psi)	1443	1417	1403	1396	1390	1386	1384	1350	1323	1301	1282	1267	1253
	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
HXT415B	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.)	8338	8114	8002	7935	7891	7859	7835	7712	7613	7533	7466	7409	7360
	Starting torque (lb.-in.)	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479
	Running pressure (psi)	1126	1095	1080	1071	1065	1061	1058	1041	1028	1017	1008	1000	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
HXT425B	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.)	8338	8114	8002	7935	7891	7859	7835	7712	7613	7533	7466	7409	7360
	Starting torque (lb.-in.)	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164	28164
	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 – double reduction

HXT reducers

Class III selection table HXT reducers – double reduction – HXT115A - HXT725B

Reducer size	Requirements ~	Output speed													
		75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT115A	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.)	1589	1579	1570	1562	1550	1538	1528	1519	1510	1502	1492	1482	1473	1464
	Starting torque (lb.-in.)	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025	4025
	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
HXT125A	Output Hp (run)	1.9	2.0	2.1	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	1589	1579	1570	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	2868	2868	2868	–	–	–	–	–	–	–	–	–	–	–
	Running Pressure (psi)	934	928	923	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	4.5	4.8	5.1	–	–	–	–	–	–	–	–	–	–	–
HXT215A	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.)	2884	2865	2848	2834	2807	2783	2762	2742	2724	2707	2693	2679	2667	2655
	Starting torque (lb.-in.)	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697	3697
	Running Pressure (psi)	1315	1306	1298	1292	1280	1269	1259	1250	1242	1234	1228	1221	1216	1210
	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
HXT225A	Output Hp (run)	3.4	3.6	3.8	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	2884	2865	2848	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	6152	6152	6152	–	–	–	–	–	–	–	–	–	–	–
	Running Pressure (psi)	790	785	780	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	9.3	9.9	10.5	–	–	–	–	–	–	–	–	–	–	–
HXT315B	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.)	4774	4735	4701	4671	4586	4510	4441	4379	4322	4270	4216	4166	4119	4077
	Starting torque (lb.-in.)	17190	17190	17190	17190	17190	17190	17190	17190	17190	17078	16862	16663	16478	16306
	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
HXT325B	Output Hp (run)	5.7	6.0	6.3	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	4774	4735	4701	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	6479	6479	6479	–	–	–	–	–	–	–	–	–	–	–
	Running Pressure (psi)	1242	1232	1223	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	10.1	10.7	11.3	–	–	–	–	–	–	–	–	–	–	–
HXT415B	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.)	7318	7281	7249	7220	7147	7082	7024	6970	6921	6876	6785	6701	6623	6551
	Starting torque (lb.-in.)	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479	17479
	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
HXT425B	Output Hp (run)	8.7	9.2	9.8	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	7318	7281	7249	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	28164	28164	28164	–	–	–	–	–	–	–	–	–	–	–
	Running Pressure (psi)	613	610	607	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	29.4	31.3	33.2	–	–	–	–	–	–	–	–	–	–	–

~ See Page G3-135 for definition of requirements.

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Class III – double reduction

HXT reducers

Class III selection table HXT reducers – double reduction – HXT115A - HXT725B

Reducer size	Requirements ~	Output speed												
		10	15	20	25	30	35	40	45	50	55	60	65	70
HXT515C	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.)	14376	13737	13417	13226	13098	13007	12938	12523	12191	11919	11692	11501	11336
	Starting torque (lb.-in.)	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924
	Running pressure (psi)	1063	1015	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
HXT525C	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.)	14376	13737	13417	13226	13098	13007	12938	12523	12191	11919	11692	11501	11336
	Starting torque (lb.-in.)	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528	29528
	Running pressure (psi)	1149	1098	1072	1057	1047	1039	1034	1001	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
HXT615A	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.)	22714	21915	21516	21276	21116	21002	20917	20350	19896	19525	19216	18954	18729
	Starting torque (lb.-in.)	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779
	Running pressure (psi)	1686	1627	1598	1580	1568	1559	1553	1511	1477	1450	1427	1407	1391
	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
HXT625A	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.)	22714	21915	21516	21276	21116	21002	20917	20350	19896	19525	19216	18954	18729
	Starting torque (lb.-in.)	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094	52094
	Running pressure (psi)	1029	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
HXT715A	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.)	31914	30828	30285	29959	29742	29587	29470	28969	28567	28239	27966	27734	27536
	Starting torque (lb.-in.)	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132
	Running pressure (psi)	1318	1273	1251	1237	1228	1222	1217	1196	1180	1166	1155	1145	1137
	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
HXT725A	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.)	31914	30828	30285	29959	29742	29587	29470	28969	28567	28239	27966	27734	27536
	Starting torque (lb.-in.)	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975	50975
	Running pressure (psi)	1477	1427	1402	1387	1377	1370	1364	1341	1322	1307	1294	1284	1275
	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 – double reduction

HXT reducers

Class III selection table HXT reducers – double reduction – HXT115A - HXT725B

Reducer size	Requirements ~	Output speed													
		75	80	85	90	95	100	105	110	115	120	125	130	135	140
HXT515C	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.)	11194	11069	10959	10862	10653	10466	10296	10141	10000	9769	9076	–	–	–
	Starting torque (lb.-in.)	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	31924	–	–	–
	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	–	–	–
HXT525C	Output Hp (run)	13.3	14.1	–	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	11194	11069	–	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	29528	29528	–	–	–	–	–	–	–	–	–	–	–	–
	Running Pressure (psi)	895	885	–	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	31.2	33.2	–	–	–	–	–	–	–	–	–	–	–	–
HXT615A	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.)	18535	18365	18215	18081	17680	17318	16687	14840	13098	11555	10084	–	–	–
	Starting torque (lb.-in.)	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	31779	–	–	–
	Running Pressure (psi)	1376	1364	1352	1343	1313	1286	1239	1102	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	–	–	–
HXT625A	Output Hp (run)	22.1	23.3	–	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	18535	18365	–	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	52094	52094	–	–	–	–	–	–	–	–	–	–	–	–
	Running Pressure (psi)	840	832	–	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	55.0	58.4	–	–	–	–	–	–	–	–	–	–	–	–
HXT715A	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.)	27364	27213	27080	26962	26663	26394	24610	22345	20278	18382	–	–	–	–
	Starting torque (lb.-in.)	57132	57132	57132	57132	57132	57132	57132	57132	57132	57132	–	–	–	–
	Running Pressure (psi)	1130	1124	1118	1114	1101	1090	1016	923	837	759	–	–	–	–
	Flow rate (gpm)	60.1	63.9	67.8	71.6	75.4	79.3	83	86.6	90.3	94	–	–	–	–
HXT725A	Output Hp (run)	32.6	–	–	–	–	–	–	–	–	–	–	–	–	–
	Running torque (lb.-in.)	27364	–	–	–	–	–	–	–	–	–	–	–	–	–
	Starting torque (lb.-in.)	50975	–	–	–	–	–	–	–	–	–	–	–	–	–
	Running Pressure (psi)	1267	–	–	–	–	–	–	–	–	–	–	–	–	–
	Flow rate (gpm)	55.0	–	–	–	–	–	–	–	–	–	–	–	–	–

~ See Page G3-135 for definition of requirements.

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Class I – single reduction

HXT reducers

Class I selection table HXT reducers – single reduction – HXT105 - HXT505A

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.)	2758	2641	2546	2467	2400	2342	2293	2249	2176	2118	1973	1799	1586	1424	1303
	Starting torque (lb.-in.)	5515	5283	5093	4934	4800	4685	4585	4498	4353	4237	3946	3598	3172	2848	2605
	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.)	4759	4475	4243	4049	3886	3745	3624	3517	3340	3198	3014	2793	2523	2322	2171
	Starting torque (lb.-in.)	6238	6238	6238	6238	6238	6238	6238	6238	6238	6238	6028	5586	5046	4644	4342
	Running pressure (psi)	1800	1693	1605	1532	1470	1417	1371	1330	1263	1210	1140	1056	954	878	821
	Flow rate (gpm)	10.1	10.8	11.5	12.2	12.9	13.7	14.4	15.2	16.7	18.3	19.9	22.2	26.2	30.2	34.2
HXT305A	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.)	7074	6758	6499	6284	6102	5946	5810	5692	5495	5337	5056	4462	3529	2863	2363
	Starting torque (lb.-in.)	11851	11851	11851	11851	11851	11851	11621	11384	10989	10673	10112	9438	8614	7705	7024
	Running pressure (psi)	1408	1346	1294	1251	1215	1184	1157	1133	1094	1063	1007	888	703	570	471
	Flow rate (gpm)	17.9	19.3	20.7	22.1	23.6	25.1	26.6	28.1	31.1	34.2	37.1	41.5	48.9	56.3	63.9
HXT405A	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.)	12387	11655	11056	10557	10135	9773	9459	9185	8578	7500	6618	5571	4286	3367	2679
	Starting torque (lb.-in.)	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956
	Running pressure (psi)	2445	2300	2182	2083	2000	1929	1867	1813	1693	1480	1306	1099	846	665	529
	Flow rate (gpm)	20.8	21.9	23.2	24.5	25.9	27.3	28.7	30.1	33.0	35.6	38.3	42.4	49.7	57.1	64.6
HXT505A	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.)	15321	14552	13923	13398	12954	12574	12244	11955	10959	9485	8279	6832	5063	3782	2836
	Starting torque (lb.-in.)	21713	21713	21713	21713	21713	21713	21713	21713	21713	21713	21529	20748	19794	18659	17808
	Running pressure (psi)	1665	1581	1513	1456	1408	1366	1331	1299	1191	1031	900	742	550	411	308
	Flow rate (gpm)	29.2	31.9	34.6	37.3	40.1	42.9	45.7	48.5	54.0	59.5	64.9	73.2	87.20	101.3	115.4

~ See Page G3-135 for definition of requirements.

Class II – single reduction

HXT reducers

Class II selection table HXT reducers – single reduction – HXT105 - HXT505A

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.)	1970	1887	1819	1762	1714	1673	1638	1606	1555	1513	1409	1285	1133	1017	930
	Starting torque (lb.-in.)	5515	5283	5093	4934	4800	4685	4585	4498	4353	4237	3946	3598	3172	2848	2605
	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.)	3399	3197	3031	2892	2775	2675	2588	2512	2386	2284	2153	1995	1802	1659	1551
	Starting torque (lb.-in.)	6238	6238	6238	6238	6238	6238	6238	6238	6238	6238	6028	5586	5046	4644	4342
	Running pressure (psi)	1286	1209	1146	1094	1050	1012	979	950	902	864	814	755	682	627	587
	Flow rate (gpm)	9.4	10.1	10.8	11.5	12.3	13.1	13.8	14.6	16.2	17.8	19.4	21.7	25.8	29.8	33.9
HXT305A	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.)	5053	4827	4642	4489	4358	4247	4150	4066	3925	3812	3611	3371	3076	2752	2363
	Starting torque (lb.-in.)	11851	11851	11851	11851	11851	11851	11621	11384	10989	10673	10112	9438	8614	7705	7024
	Running pressure (psi)	1006	961	924	894	868	846	826	810	781	759	719	671	613	548	471
	Flow rate (gpm)	16.8	18.2	19.7	21.2	22.7	24.2	25.7	27.2	30.3	33.4	36.4	40.9	48.6	56.3	63.9
HXT405A	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.)	8848	8325	7897	7541	7239	6981	6757	6561	6234	5973	5776	5541	4286	3367	2679
	Starting torque (lb.-in.)	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956
	Running pressure (psi)	1746	1643	1559	1488	1429	1378	1333	1295	1230	1179	1140	1093	846	665	529
	Flow rate (gpm)	18.9	20.2	21.5	22.9	24.4	25.8	27.3	28.7	31.7	34.8	37.8	42.4	49.7	57.1	64.6
HXT505A	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.)	10944	10394	9945	9570	9253	8981	8746	8540	8196	7921	7689	6832	5063	3782	2836
	Starting torque (lb.-in.)	21713	21713	21713	21713	21713	21713	21713	21713	21713	21713	21529	20748	19794	18659	17808
	Running pressure (psi)	1189	1130	1081	1040	1006	976	950	928	891	861	836	742	550	411	308
	Flow rate (gpm)	28.2	31.0	33.7	36.5	39.3	42.1	44.9	47.8	53.4	59.1	64.8	73.2	87.2	101.3	115.4

~ See Page G3-135 for definition of requirements.

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Class III – single reduction

HXT reducers

Class III selection table HXT reducers – single reduction – HXT105 - HXT505A

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.)	2758	2641	2546	2467	2400	2342	2293	2249	2176	2118	1973	1799	1586	1424	1303
	Starting torque (lb.-in.)	5515	5283	5093	4934	4800	4685	4585	4498	4353	4237	3946	3598	3172	2848	2605
	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.)	4759	4475	4243	4049	3886	3745	3624	3517	3340	3198	3014	2793	2523	2322	2171
	Starting torque (lb.-in.)	6238	6238	6238	6238	6238	6238	6238	6238	6238	6238	6028	5586	5046	4644	4342
	Running pressure (psi)	1800	1693	1605	1532	1470	1417	1371	1330	1263	1210	1140	1056	954	878	821
	Flow rate (gpm)	10.1	10.8	11.5	12.2	12.9	13.7	14.4	15.2	16.7	18.3	19.9	22.2	26.2	30.2	34.2
HXT305A	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.)	7074	6758	6499	6284	6102	5946	5810	5692	5495	5337	5056	4462	3529	2863	2363
	Starting torque (lb.-in.)	11851	11851	11851	11851	11851	11851	11621	11384	10989	10673	10112	9438	8614	7705	7024
	Running pressure (psi)	1408	1346	1294	1251	1215	1184	1157	1133	1094	1063	1007	888	703	570	471
	Flow rate (gpm)	17.9	19.3	20.7	22.1	23.6	25.1	26.6	28.1	31.1	34.2	37.1	41.5	48.9	56.3	63.9
HXT405A	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.)	12387	11655	11056	10557	10135	9773	9459	9185	8578	7500	6618	5571	4286	3367	2679
	Starting torque (lb.-in.)	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956	11956
	Running pressure (psi)	2445	2300	2182	2083	2000	1929	1867	1813	1693	1480	1306	1099	846	665	529
	Flow rate (gpm)	20.8	21.9	23.2	24.5	25.9	27.3	28.7	30.1	33.0	35.6	38.3	42.4	49.7	57.1	64.6
HXT505A	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.)	15321	14552	13923	13398	12954	12574	12244	11955	10959	9485	8279	6832	5063	3782	2836
	Starting torque (lb.-in.)	21713	21713	21713	21713	21713	21713	21713	21713	21713	21713	21529	20748	19794	18659	17808
	Running pressure (psi)	1665	1581	1513	1456	1408	1366	1331	1299	1191	1031	900	742	550	411	308
	Flow rate (gpm)	29.2	31.9	34.6	37.3	40.1	42.9	45.7	48.5	54.0	59.5	64.9	73.2	87.20	101.3	115.4

~ See Page G3-135 for definition of requirements.

Definition of requirements

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 (in.-lbs.)

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

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

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

Maximum hydraulic motor pressures available for starting

Double reduction	Single reduction	Maximum hydraulic pressure
–	HXT105	–
–	HXT205	–
HXT315B	HXT305A	–
HXT415B, 425B	HXT405A	2500 psi
HXT515C, 525C	HXT505A	–
HXT615A, 625A	–	–
HXT715A, 725A	–	–
HXT115A, 125A	–	–
HXT215A, 225A	–	2000 psi
HXT325B	–	–

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

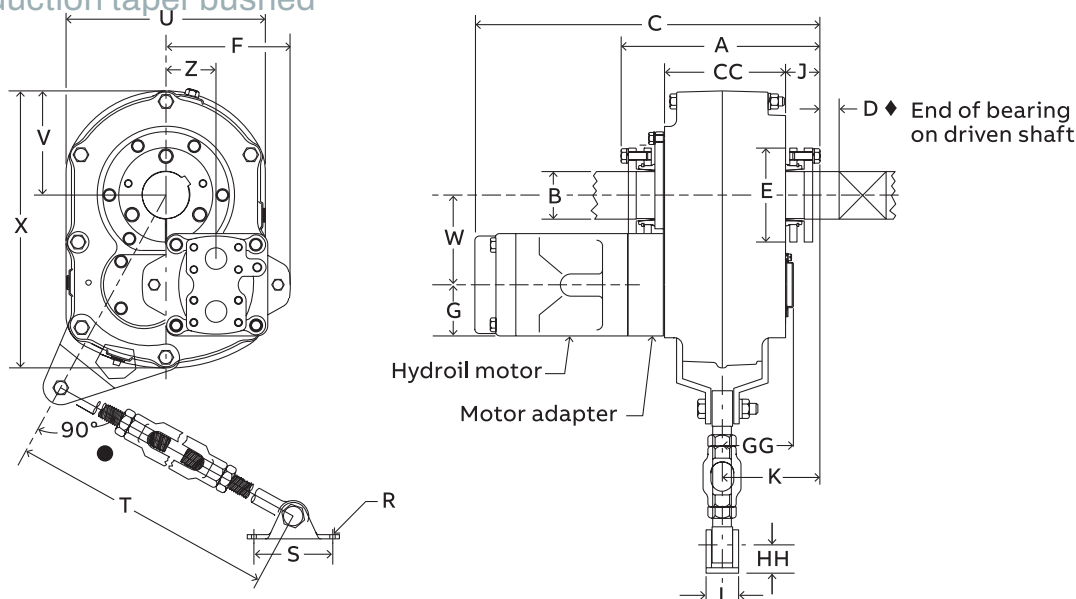
Bulk Material Handling

Selection and Dimensions

Hydroil reducers

HXT1 through HXT7

Double reduction taper bushed



Reducer will operate satisfactorily at 90° or 180° 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 Torque-Arm is at right angles to a line between the point of attachment of the Torque-Arm to the reducer and the output shaft. This may vary up to + / - 20° in tension, and + / - 20° in compression.

Caution: Exceeding the position variance of the Torque-Arm could result in excessive reaction load and result in damage to the equipment.

HXT1A through HXT7A Hydroil double reduction taper bushed Torque-Arm speed reducers

Reducer size		AGMA code		Gear ratio		Part number		Wt.	Hydroil motor		A	B Max. bore ♥	C	D	E	F	G	J	K
15:1	25:1	15:1	25:1	15:1	25:1	15:1	25:1		Size	Wt.									
–	HXT125A	–	107H25	–	25.64	–	241070 ♣	49	A10	11	7.06	1.44	13.22	1.25	3.25	4.47	2.41	1.28	3.53
HXT115A	–	107H15	–	15.35	–	241069 ♣	–		A20	11	7.31	1.94	13.38	1.25	4.06	4.69	2.41	1.38	3.66
HXT215A	HXT225A	115H15	115H25	14.10	23.46	242086 ♣	242087 ♣	65	A20	11	9.22	2.19	14.64	1.50	4.38	4.88	2.41	1.58	4.44
–	HXT325B	–	203H25	–	24.71	–	243508	112	A20	11	9.22	2.19	15.45	1.50	4.38	5.75	2.38	1.58	4.44
HXT315B	–	203H15	–	14.88	–	243507	–		B30	30	10	2.44	16.13	1.75	4.81	6.19	2.38	1.81	4.75
HXT415B	HXT425B	207H15	207H25	15.13	24.38	244532	244533 ♣	143	B30	30	10	2.44	16.13	1.75	4.81	6.19	2.38	1.81	4.75
–	HXT525C	–	215H25	–	25.56	–	245558	212	B30	30	10.5	2.94	16.88	1.81	5.63	6.50	2.38	1.94	5.50
HXT515C	–	215H15	–	15.40	–	245557	–		B40	55	11.5	3.44	17.63	1.81	5.63	7.25	3.06	1.94	5.50
HXT615A	HXT625A	307H15	307H25	15.33	25.13	246154 ♣	246155 ♣	293	B40	55	11.5	3.44	18.58	1.81	6.13	8.28	3.06	1.94	5.70
–	HXT725A	–	315H25	–	24.59	–	247165 ♣	470	B40	55	12.81	3.94	19.16	2.06	7.25	9.30	3.06	2.16	6.34
HXT715A	–	315H15	–	15.23	–	247164 ♣	–		B50	106	12.81	3.94	22.75	2.06	7.25	9.30	3.69	2.16	6.34

Reducer size	L	R Bolt	S	T Min.	Max.	U	V	W	X	Z	CC	GG	HH
HXT1A	1.06	0.38	2.50	23.81	29.63	7.13	3.75	3.19	9.94	1.91	4.50	2.66	0.94
HXT2A	1.25	0.44	3.00	26.94	32.94	8.38	4.13	3.75	11.41	2.13	4.56	2.94	1.06
HXT3B	1.25	0.44	3.00	26.94	32.94	9.25	4.81	4.19	12.88	2.31	6.38	3.25	1.06
HXT4B	1.44	0.50	4.00	29.19	35.19	10.38	5.50	4.78	15.13	2.75	6.88	3.38	1.75
HXT5C	1.44	0.50	4.00	29.19	35.19	13.13	6.56	5.69	18.31	3.06	7.06	4.50	1.75
HXT6A	2.75	0.63	4.75	29.19	35.19	15.13	7.56	6.75	21.31	4.09	7.63	4.56	2.00
HXT7A	2.75	0.63	4.75	29.44	35.44	18.75	9.38	8.31	25.94	5.13	8.13	4.69	2.00

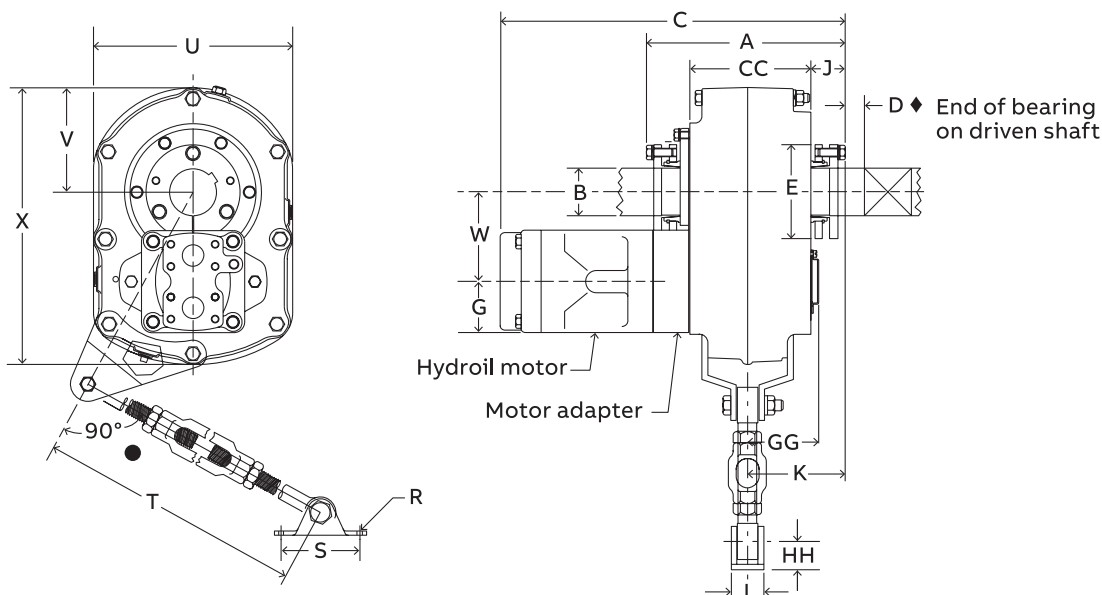
Note: All reducers on this page require bushings. Stock HXT reducers are drilled for vertical mounting. Reducer includes motor adapter.

♥ See pages G3-24 through G3-51 for bore and keyseat information and bushing part numbers.

♣ Made to order.

HXT105 through HXT505

Single reduction taper bushed



Reducer will operate satisfactorily at 90° or 180° 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 Torque-Arm is at right angles to a line between the point of attachment of the Torque-Arm to the reducer and the output shaft. This may vary up to + / - 20° in tension, and + / - 20° in compression.

Caution: Exceeding the position variance of the Torque-Arm could result in excessive reaction load and result in damage to the equipment.

HXT105 through HXT505A Hydrol single reduction taper bushed Torque-Arm speed reducers

Reducer size	AGMA code	Gear ratio	Part number	Reducer Wt	Hydroil motor		A	B Max. bore ♥	C	D	E	G	J	K	L
					Size	Wt.									
HXT105	107H05	5.62	241085	44	B30	30	5.63	1.44	14.97	1.25	3.25	2.38	1.28	3.53	1.06
HXT205	115H05	5.29	242251	56	B30	30	5.81	1.94	15.25	1.25	4.06	2.38	1.38	3.66	1.25
HXT305A	203H05	5.60	253153 ♣	90	B40	55	6.88	2.19	17.66	1.5	4.38	3.06	1.58	4.44	1.25
HXT405A	207H05	5.65	254202 ♣	126	B40	55	7.81	2.44	18.69	1.75	4.81	3.06	1.81	4.75	1.44
HXT505A	215H05	5.67	255202 ♣	186	B50	106	8.38	2.94	22	1.81	5.63	3.69	1.92	4.13	1.44

HXT105 through HXT505A Hydrol single reduction taper bushed Torque-Arm speed reducers

Reducer size	R Bolt	S	T		U	V	W	X	CC	GG	HH
			Min.	Max.							
HXT105	0.38	2.50	23.81	29.63	7.13	3.75	3.25	9.94	4.50	2.64	0.94
HXT205	0.44	3.00	26.94	32.94	8.50	4.13	3.88	11.41	4.56	2.83	1.06
HXT305A	0.44	3.00	26.94	32.94	9.25	4.81	4.28	12.88	6.38	3.25	1.06
HXT405A	0.50	4.00	29.19	35.19	10.38	5.50	4.88	15.13	6.88	3.38	1.75
HXT505A	0.50	4.00	29.19	35.19	13.13	6.56	5.88	18.31	7.06	4.50	1.75

Note: All reducers on this page require bushings. Stock HXT reducers are drilled for vertical mounting. Reducer includes motor adapter.

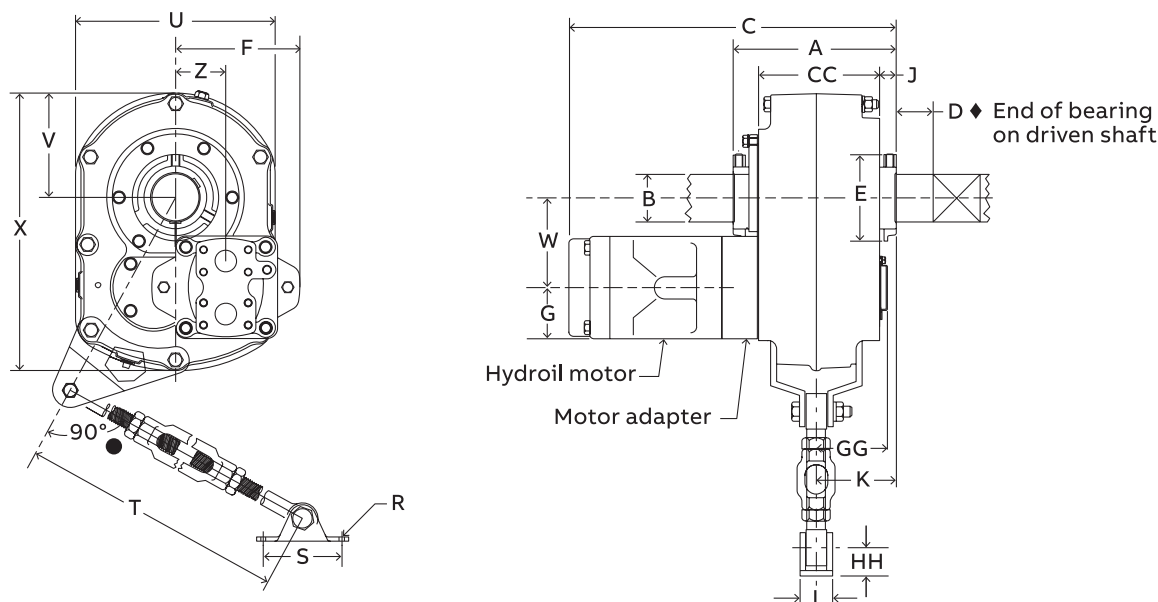
♥ See pages G3-24 through G3-51 for bore and keyseat information and bushing part numbers.

♣ Made to order.

HXT1 through HXT7

Selection and dimensions

Double reduction straight bore



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

I The ideal position for the Torque-Arm is at right angles to a line between the point of attachment of the Torque-Arm to the reducer and the output shaft. This may vary up to + / - 20° in tension, and + / - 20° in compression.

Caution: Exceeding the position variance of the Torque-Arm could result in excessive reaction load and result in damage to the equipment.

HXT1A through HXT7A Hydroil double reduction straight bore Torque-Arm speed reducers

Reducer size		AGMA code		Gear ratio		Part number		Wt.	Hydroil motor		A	B Max. bore ♥	C	D	E	F	G	J	K
15:1	25:1	15:1	25:1	15:1	25:1	15:1	25:1		Size	Wt.									
-	HXT125A	-	107H25	-	25.64	-	241078	49	A10	11	5.63	1.44	12.50	3.19	4.47	2.41	0.56	2.81	1.06
HXT115A	-	107H15	-	15.35	-	241077	-		A20	11	5.81	1.94	12.63	3.56	4.69	2.41	0.63	2.91	1.25
HXT215A	HXT225A	115H15	115H25	14.10	23.46	242094	242095	65	A20	11	5.81	1.94	12.63	3.56	4.69	2.41	0.63	2.91	1.25
-	HXT325B	-	203H25	-	24.71	-	243520	112	A20	11	7.81	2.19	13.69	4.00	4.88	2.41	0.63	2.47	1.25
HXT315B	-	203H15	-	14.88	-	243519	-		B30	30	8.22	2.44	14.50	4.38	5.75	2.38	0.84	3.88	1.44
HXT415B	HXT425B	207H15	207H25	15.13	24.38	244544	244545	143	B30	30	8.22	2.44	15.16	4.38	6.19	2.38	0.84	3.88	1.44
-	HXT525C	-	215H25	-	25.56	-	245570	212	B30	30	8.66	2.94	15.94	5.13	6.50	2.38	1.00	4.13	1.44
HXT515C	-	215H15	-	15.40	-	245569	-		B40	55	9.63	3.44	16.69	5.63	7.25	3.06	1.00	4.81	2.75
HXT615A	HXT625A	307H15	307H25	15.33	25.13	246162	246163	293	B40	55	9.63	3.44	17.69	5.63	8.28	3.06	1.00	4.81	2.75
-	HXT725A	-	315H25	-	24.59	-	247173	470	B40	55	10.78	3.94	18.19	6.69	9.31	3.06	1.14	5.39	2.75
HXT715A	-	315H15	-	15.23	-	247172	-		B50	106	10.78	3.94	21.50	6.69	8.38	3.69	1.14	5.39	2.75

Reducer size	R Bolt	S	T		U	V	W	X	Z	CC	GG	HH
			Min.	Max.								
HXT1A	0.38	2.50	23.81	29.63	7.13	3.75	3.19	9.94	1.91	4.50	2.66	0.94
HXT2A	0.44	3.00	26.94	32.94	8.38	4.13	3.75	11.41	2.13	4.56	2.94	1.06
HXT3B	0.44	3.00	26.94	32.94	9.25	4.81	4.19	12.88	2.31	6.38	3.25	1.06
HXT4B	0.50	4.00	29.19	35.19	10.38	5.50	4.78	15.13	2.75	6.88	3.38	1.75
HXT5C	0.50	4.00	29.19	35.19	13.13	6.56	5.69	18.31	3.06	7.06	4.50	1.75
HXT6A	0.63	4.75	29.19	35.19	15.13	7.50	6.75	21.31	4.09	7.63	4.56	2.00
HXT7A	0.63	4.75	29.44	35.44	18.75	9.38	8.31	25.94	5.13	8.50	4.69	2.00

Note: All reducers on this page require bushings. Stock HXT reducers are drilled for vertical mounting. Reducer includes motor adapter.

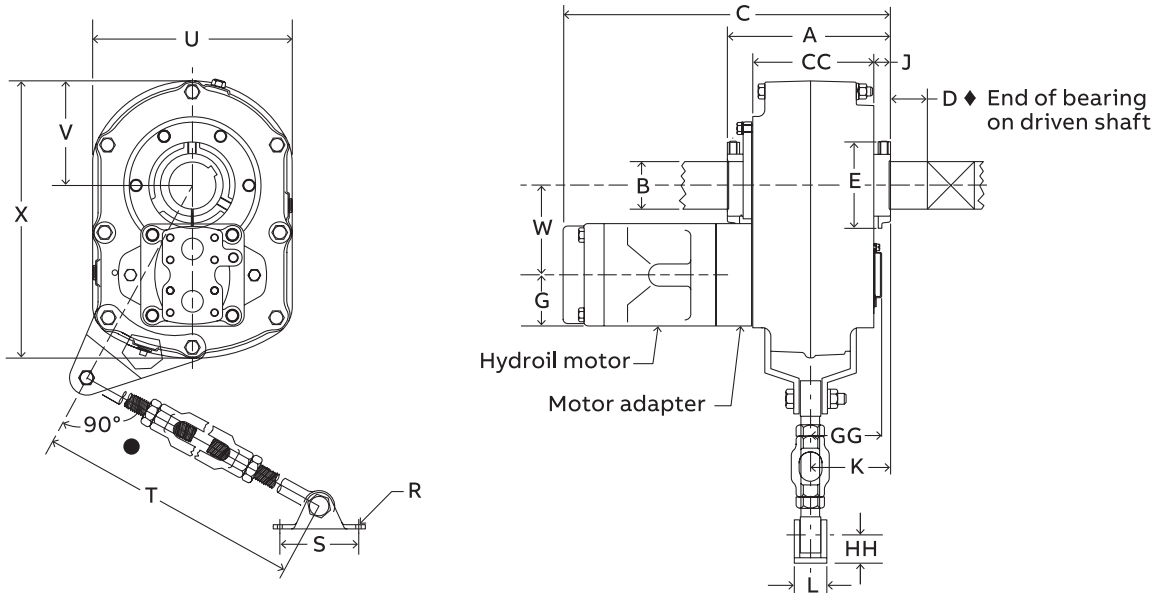
♥ See pages G3-24 through G3-51 for bore and keyseat information and bushing part numbers.

♣ Made to order.

HXT105 through HXT505A

Selection and dimensions

Single reduction straight bore



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

The ideal position for the Torque-Arm is at right angles to a line between the point of attachment of the Torque-Arm to the reducer and the output shaft. This may vary up to + / - 20° in tension, and + / - 20° in compression.

Caution: Exceeding the position variance of the Torque-Arm could result in excessive reaction load and result in damage to the equipment.

HXT105 through HXT505A Hydrol single reduction straight bore Torque-Arm speed reducers

Reducer size	AGMA code	Gear Ratio	Part number	Reducer Wt	Hydroil motor		A	B Max. bore ♥	C	D	E	G	J	K	L
					Size	Wt.									
HXT105	107H05	5.62	241089 ♣	44	B30	30	5.63	1.44	14.25	3.19	2.38	0.56	2.81	1.06	
HXT205	115H05	5.29	242255	56	B30	30	5.81	1.94	14.5	3.56	2.38	0.63	2.91	1.25	
HXT305A	203H05	5.60	253157	90	B40	55	7.41	2.19	16.69	4	3.06	0.63	4.44	1.25	
HXT405A	207H05	5.65	254206 ♣	126	B40	55	8.22	2.44	17.72	4.38	3.06	0.84	4.75	1.44	
HXT505A	215H05	5.67	255206 ♣	186	B50	106	8.66	2.94	21.06	5.13	3.69	1	4.13	1.44	

HXT105 through HXT505A Hydrol single reduction straight bore Torque-Arm speed reducers

Reducer size	R Bolt	S	T		U	V	W	X	CC	GG	HH
			Min.	Max.							
HXT105	0.38	2.5	23.81	29.63	7.13	3.75	3.25	9.94	4.5	2.64	0.94
HXT205	0.44	3	26.94	32.94	8.5	4.13	3.88	11.41	4.56	2.83	1.06
HXT305A	0.44	3	26.94	32.94	9.25	4.81	4.29	12.88	6.38	3.25	1.06
HXT405A	0.5	4	29.19	35.19	10.38	5.5	4.88	15.13	6.88	3.38	1.75
HXT505A	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 reducers are drilled for vertical mounting. Reducer includes motor adapter.

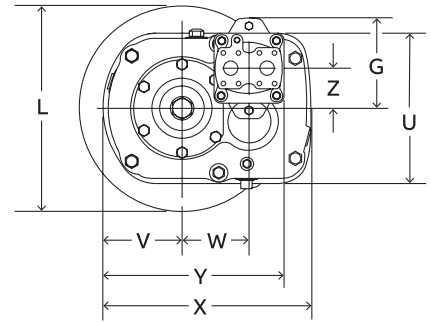
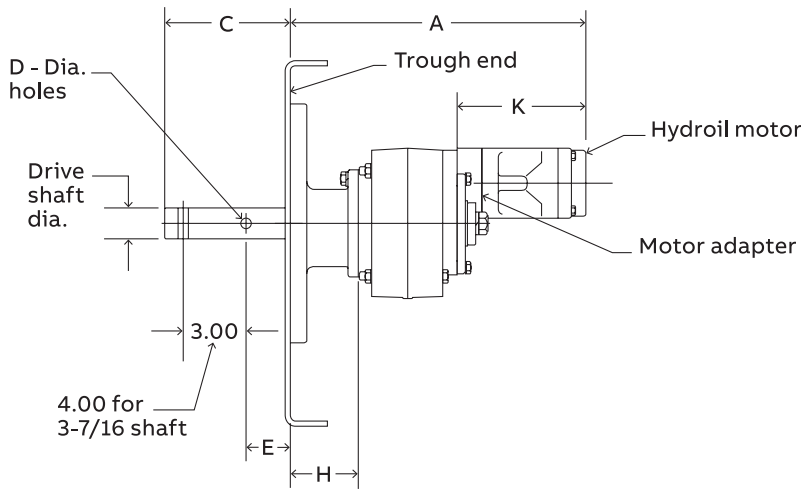
♥ See pages G3-24 through G3-51 for bore and keyseat information and bushing part numbers.

♣ Made to order.

HSC1A through HSCXT7A

Selection and dimensions

Double reduction Hydroil screw conveyor drives



HSC1A through HSCXT7A double reduction Hydroil screw conveyor drives †

Reducer size	Drive shaft dia.	To fit screw dia.	Hydroil motor		Parts when ordering separately										Adapter		
					Reducer ▢			CEMA Drive shaft ~									
			Size	Wt.	Part number		Wt.	Size	Part No.	Wt.	C	D	E	Assy. ▲			
					15:1	25:1								Size	Part no.	Wt.	
HSCXT115A	1-1/2	6, 9	A20	11	351191	351192	46	C1 x 1-1/2	351094	7.2	6.00	0.52	2.13	C1A	351086	17	
	2	9, 12					C1 x 2	351095	9.1	6.00	0.64	2.13					
HSCXT125A	2-7/16	12, 14	A10				46	C1 x 2-7/16	351096	12.5	6.69	0.64	2.75				
	3	12 through 20					C1 x 3	351097	17.4	6.88	0.77	2.88					
HSCXT215A	1-1/2	6, 9	A20	11	352191	352192	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				
HSCXT225A	2-7/16	12, 14					58	C2 x 2-7/16	352092	17.3	6.69	0.64	2.75				
	3	12 through 20						C2 x 3	352093	22.1	6.88	0.77	2.88				
HSCXT315B	1-1/2	9	B30	11				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				
HSCXT325B	2-7/16	12, 14	A20	30	243528	243529	90	C3A x 2-7/16	243564	19.5	6.69	0.64	2.75				
	3	12 through 20						C3A x 3	243565	26	6.88	0.77	2.88				
HSCXT415B	1-1/2	9						C4A x 1-1/2	244594	19	6.00	0.52	2.13				
		2						9, 12		C4A x 2	244595	20.8	6.00				0.64
HSCXT425B	2-7/16	12, 14	B30	30	244553	244554	113	C4A x 2-7/16	244596	24.3	6.69	0.64	2.75	C4	354121	31	
		3	12 through 20						C4A x 3	244597	29.2	6.88	0.77				2.88
HSCXT515C	3-7/16	18 through 24						C4A x 3-7/16	244598	29.3	9.13	0.89	3.88				
		2						9, 12		C5B x 2	355175	29.4	6.00				0.64
	2-7/16	12, 14	B40	30				C5B x 2-7/16	355176	33	6.69	0.64	2.75	C5	355072	43	
	3	12 through 20						C5B x 3	355177	37.9	6.88	0.77	2.88				
HSCXT525C	3-7/16	18 through 24	B30	55				C5B x 3-7/16	355178	48.3	9.13	0.89	3.88				
HSCXT615A	2-7/16	12, 14	B40	55	356291	356292	225	C6 x 2-7/16	356042	47.7	6.69	0.64	2.75	C6	356055	56	
		3						12 through 20		C6 x 3	356043	52.7	6.88				0.77
HSCXT625A	3-7/16	18 through 24						C6 x 3-7/16	356044	63	9.13	0.89	3.88				
HSCXT715A	2-7/16	12, 14	B50	55				C7 x 2-7/16	356182	65	6.69	0.64	2.75				
		3						12 through 20		C7 x 3	356183	70	6.88				0.77
HSCXT725A	3-7/16	18 through 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, drive shaft 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 G3-112 for adapter bolt pattern details.

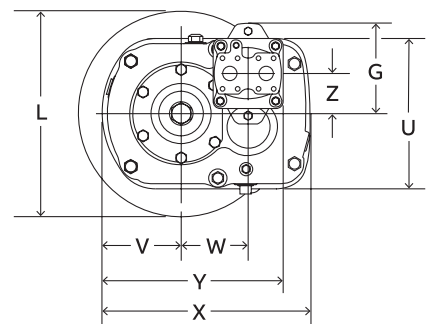
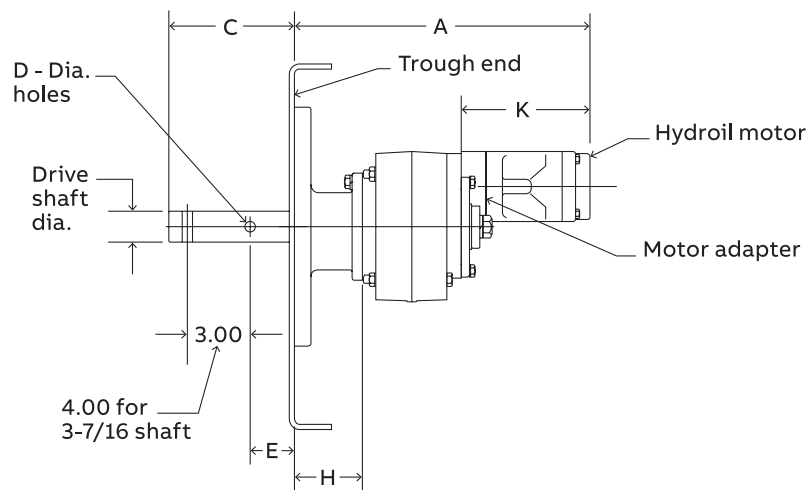
■ Reducer includes hydroil motor adapter.

~ CEMA drive shaft and key furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

HSCXT1A through HSCXT7A

Selection and dimensions

Double reduction Hydroil screw conveyor drives



HSCXT1A through HSCXT7A double reduction Hydroil screw conveyor drives †

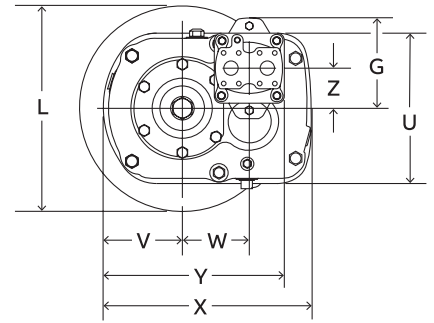
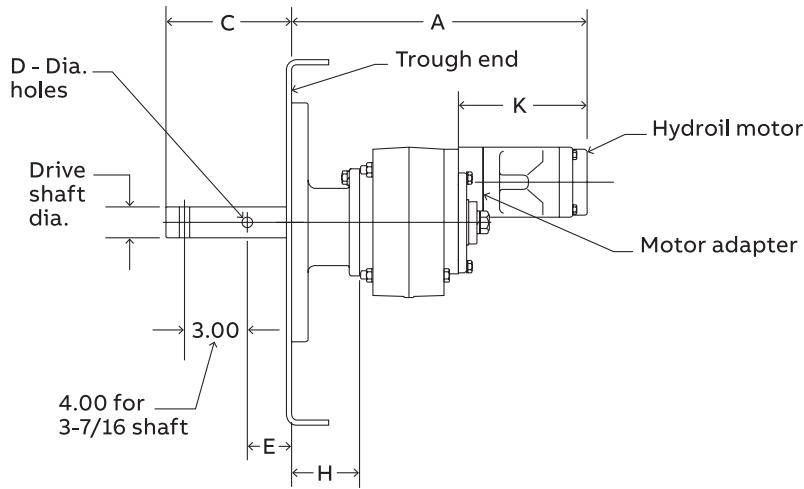
Reducer size	Actual ratio		Max. RPM of shaft				A	G	H	K	L	U	V	W	X	Y	Z
	15:1	25:1	Input		Driven												
			15:1	25:1	15:1	25:1											
HSCXT1A	15.35	—	2149	—	140	—	15.34	4.47	3.22	7.44	7.00	7.13	3.75	3.38	9.94	9.34	1.91
	—	25.64	—	2179	—	85											
HSCXT2A	14.97	24.92	2096	2118	140	85	15.94	4.69	3.56	7.44	7.00	8.38	4.09	3.77	11.41	10.27	2.14
HSCXT3B	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	
HSCXT4B	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
HSCXT5C	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	
HSCXT6A	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
HSCXT7A	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, drive shaft 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 G3-112 for adapter bolt pattern details.
■ Reducer includes hydroil motor adapter.
~ CEMA drive shaft and key furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

HSCT105 through HSCXT505A

Selection and dimensions

Single reduction Hydroil screw conveyor drives



HSCT105 through HSCXT505A Single reduction Hydroil screw conveyor drives †

Reducer size	Drive shaft dia.	To fit screw dia.	Hydroil motor		Parts when ordering separately										Adapter		
					Reducer ☐		CEMA Drive shaft ~										
			Size	Wt.	Part no.	Wt.	Size	Part no.	Wt.	C	D	E	Assy. ▲	Size	Part no.	Wt.	
HSCXT105	1-1/2	6, 9	B30	30	351190	41	C1 x 1-1/2	351094	7.2	6.00	0.52	2.13	C1A	351086	17		
	2	9, 12					C1 x 2	351095	9.1	6.00	0.64	2.13					
	2-7/16	12, 14				41	C1 x 2-7/16	351096	12.5	6.69	0.64	2.75					
	3	12 through 20					C1 x 3	351097	14.4	6.88	0.77	2.88					
HSCXT205	1-1/2	6, 9	B30	30	352190	53	C2 x 1-1/2	352090	11.4	6.00	0.52	2.13	C2A	352052	20		
	2	9, 12					C2 x 2	352091	13.8	6.00	0.64	2.13					
	2-7/16	12, 14				53	C2 x 2-7/16	352092	17.3	6.69	0.64	2.75					
	3	12 through 20					C2 x 3	352093	22.1	6.88	0.77	2.88					
HSCXT305A	1-1/2	9	B40	55	253160	79	C3A x 1-1/2	243562	13.5	6.00	0.52	2.13	C3	353047	27		
	2	9, 12					C3A x 2	243563	16.0	6.00	0.64	2.13					
	2-7/16	12, 14					C3A x 2-7/16	243564	19.5	6.69	0.64	2.75					
	3	12 through 20					C3A x 3	243565	26.0	6.88	0.77	2.88					
HSCXT405A	1-1/2	9	B40	55	254209	101	C4A x 1-1/2	244594	19.0	6.00	0.52	2.13	C4	354121	31		
	2	9, 12					C4A x 2	244595	20.8	6.00	0.64	2.13					
	2-7/16	12, 14					C4A x 2-7/16	244596	24.3	6.69	0.64	2.75					
	3	12 through 20					C4A x 3	244597	29.2	6.88	0.77	2.88					
HSCXT505A	3-7/16	18 through 24	B50	106	255209	160		C4A x 3-7/16	244598	39.3	9.13	0.89	3.88	C5	355072	43	
	2	9, 12						C5B x 2	355175	29.4	6.00	0.64	2.13				
	2-7/16	12, 14						C5B x 2-7/16	355176	33.0	6.69	0.64	2.75				
	3	12 through 20						C5B x 3	355177	37.9	6.88	0.77	2.88				
	3-7/16	18 through 24						C5B x 3-7/16	355178	48.3	9.13	0.89	3.88				

Reducer size	Actual ratio	Max. RPM of shaft		A	H	K	L	U	V	W	X	Y
		Input	Driven									
HSCXT105	5.62	2246	400	16.28	3.22	8.38	7.00	7.13	3.75	3.27	9.94	9.39
HSCXT205	5.62	2246	400	16.50	3.56	8.50	7.00	8.38	4.09	3.86	11.41	10.33
HSCXT305A	5.31	2124	400	20.00	3.69	10.31	11.38	9.25	4.84	4.28	13.72	12.19
HSCXT405A	5.27	2108	400	21.00	4.00	10.63	11.38	10.38	5.50	4.88	15.94	16.50
HSCXT505A	5.69	2275	400	22.00	4.25	11.72	11.38	13.00	6.56	5.86	18.31	16.86

† For a complete HSCXT drive, order a reducer, drive shaft and adapter assembly by their respective part numbers. Drive is shipped unassembled.

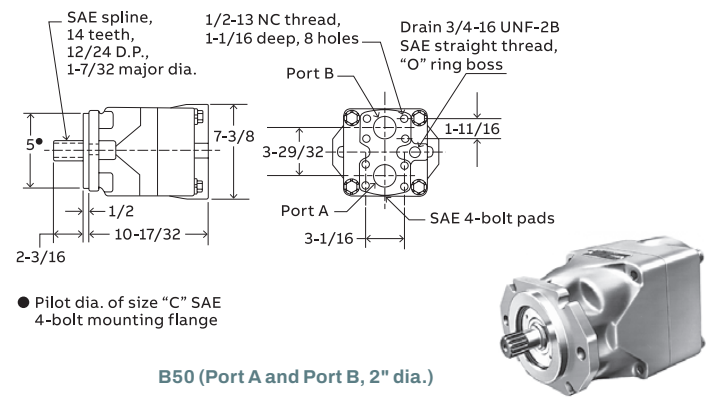
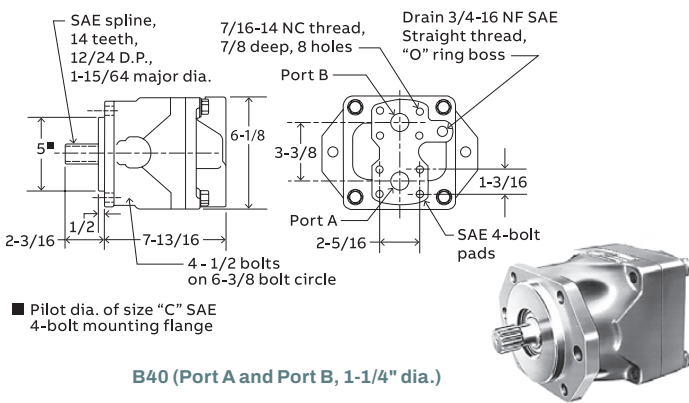
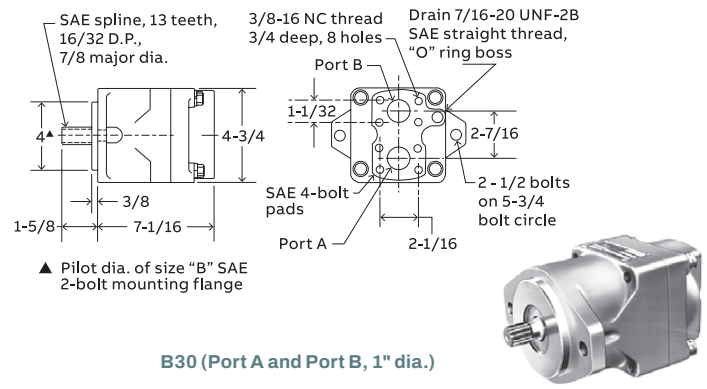
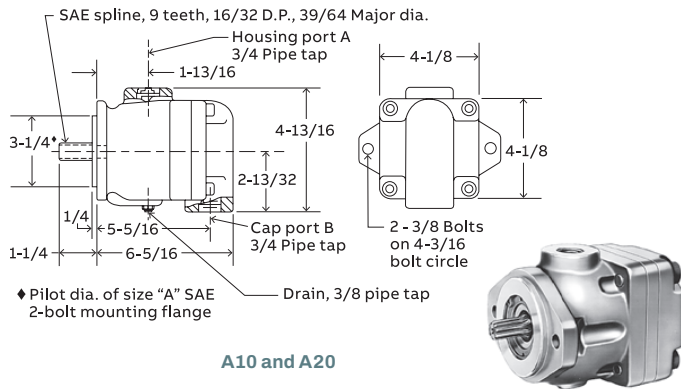
▲ Includes adapter, necessary mounting bolts, seal retainer and lip type seals. See page G3-112 for adapter bolt pattern details.

■ Reducer includes hydroil motor adapter.

~ CEMA drive shaft and key furnished unless otherwise specified. See pages G3-113 through G3-115 for optional drive shafts available from Dodge.

Hydroil vane motors

Selection and dimensions



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

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

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

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

Hydroil vane motors for HXT reducers

Motor size	Part number	Displacement (in ³ /rev.)	Running torque (in lb/100 psi)	Starting torque (in lb/100 psi)	Flow rate (gpm/100 rpm)	Internal leakage (gpm/1000 psi) *	Minimum motor RPM	Wt. (lbs)
A10	444049	0.49	6.9	5.75	0.21	0.49	60	11
A20	444050	1.14	16.1	13.4	0.50	0.76	60	11
B30	444054	3.59	51.3	46.2	1.60	1.50	100	30
B40	444055	6.40	91.8	82.6	2.77	2.67	100	55
B50	444056	11.69	167.4	150.7	5.10	2.00	100	106

All dimensions are in inches.

Related Products

Char-Lynn™* compatible 6B spline reducer

New hydraulically powered Dodge Torque-Arm twin taper bushed speed reducers with 6B spline, SAE “A” 2-bolt motor flange. Suitable for Char-Lynn H, S, T and 2000 series motors or equal. This is a modified version of the HXT Torque-Arm speed reducer.

- Twin tapered mounting
- •Material cost savings
- Installed cost savings
- Simple installation
- No periodic maintenance cost associated with chain drives
- Eliminate V-drives
- Compact drive design
- Infinitely adjustable speeds/torque
 - Driven machinery can be inched/jogged
 - Direction of rotation can be reversed
 - Low speed, high torque capability
- Shock resistant helical gearing
- Reduced motor costs
- Optimized pressure, ratio and flow
- No motor drain

Specifications

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

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

* Char-Lynn is a registered trademark of EATON

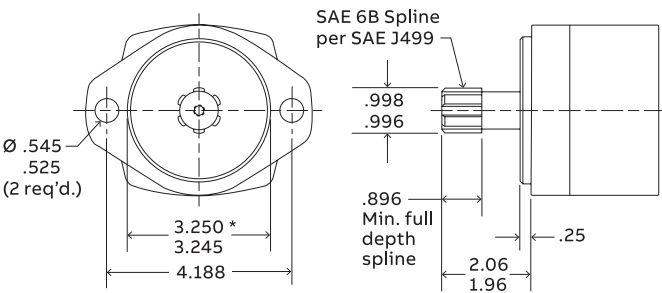
Maximum input and driven speeds for HXT6B reducers

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

Torque-Arm hydraulic taper bushed speed reducers

Reducer size	Part number	Exact ratios	Max. bore
HXT105T C/L 6B	251140	5.62	1.44
HXT205T C/L 6B	252140	5.29	1.94
HXT305AT C/L 6B	253140	5.60	2.19
HXT405AT C/L 6B	254140	5.65	2.44
HXT505AT C/L 6B	255160	5.67	2.94
HXT325BT C/L 6B	243571	24.71	2.19
HXT415BT C/L 6B	244556	15.13	2.44
HXT425BT C/L 6B	244557	24.38	2.44
HXT525CT C/L 6B	245640	25.56	2.94
HXT625AT C/L 6B	246520	25.13	3.44
HXT725AT C/L 6B	247520	24.59	3.94

Motor mounting dimensions



* Pilot dia. of size “A” SAE two-bolt mounting flange

Hydroil Torque-Arm shaft mount speed reducer

Related products

Class I – Refer to pages G3-17 through G3-22 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 G3-17 through G3-22 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 G3-17 through G3-22 to determine appropriate drive service factor for your specific application and duty cycle. To obtain Class III reducer ratings, divide Class I ratings from the tables below by 2.0.

Continuous input horsepower - Class I*

Output RPM	Reducer size		HXT305A C/L	HXT405A C/L	HXT505A C/L	HXT325B C/L	HXT415B C/L	HXT425B C/L	HXT525C C/L	HXT625A C/L	HXT725A C/L
	HXT105 C/L	HXT205 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 RPM	Reducer size		HXT305A C/L	HXT405A C/L	HXT505A C/L	HXT325B C/L	HXT415B C/L	HXT425B C/L	HXT525C C/L	HXT625A C/L	HXT725A C/L
	HXT105 C/L	HXT205 C/L									
1	3470	6980	9580	13500	20100	10400	16000	16000	27000	42700	61600
5	3200	6380	8950	12500	19200	10400	16000	16000	27000	42700	61600
10	3100	6140	8700	12100	18800	10400	15600	15600	26900	42600	59700
20	3040	6020	8580	12000	18700	10200	15400	15400	25900	41300	57700
30	3020	5980	8530	11900	18000	10100	15100	15100	25200	–	–
40	3010	5950	8510	11800	17200	–	14700	–	–	–	–
50	3000	5940	8500	11800	16700	–	14300	–	–	–	–
60	2780	5500	8160	11400	–	–	–	–	–	–	–
70	2600	5170	7920	11000	–	–	–	–	–	–	–
80	2490	4930	7730	10700	–	–	–	–	–	–	–
90	2390	4750	7590	10500	–	–	–	–	–	–	–
100	2320	4600	7480	10400	–	–	–	–	–	–	–
110	2120	4200	7040	–	–	–	–	–	–	–	–
120	2050	4080	6930	–	–	–	–	–	–	–	–
130	2000	3980	6850	–	–	–	–	–	–	–	–
140	1950	2890	–	–	–	–	–	–	–	–	–
150	1920	3820	–	–	–	–	–	–	–	–	–
160	1880	3750	–	–	–	–	–	–	–	–	–

** Output torque – Continuous output torque rating of reducer (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% of normal (100% overload) the equivalent Hp may be obtained by dividing the peak Hp by two.

If the results exceed the horsepower obtained from a consideration of service and duty, it should be used to select the reducer size.

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

Harsh duty accessories

Related products

Corrosion resistance

Zinc plated tie rods

Includes tie rods, turnbuckles, and Torque-Arm rod fasteners. Standard accessory

TDNC coated tapered bushings (thin dense nickel chrome)

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 drive shafts for screw conveyor drives

#316 stainless steel, three hole construction now available on short cycle delivery. Consult Dodge for delivery.

Hostile environment

Hydra-Lock desiccant breather

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



Enclosed breather chamber

Elastic diaphragm enclosed in steel chamber provides closed system.

Protects reducer components and lubricant in wet, dusty or hot environments.

Install in new reducer installations only. Mounts in uppermost position and replaces standard breather. Stock item.



Harsh duty accessories

Related products

Oil sump heater

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



Reference Guide

Long term storage

Preparation for long storage or delayed job start-up.
Breather removed and reducer sealed with pipe plug.
See page G2-181 for details.

Motorized Torque-Arm II

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.
- Simply position on reducer, insert bolts and tighten to specified torque values. Stock item.



Torque-Arm II

Torque-Arm

Bulk Material Handling

Harsh duty accessories

Related products

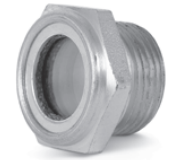
TXT Lubrication

- Oil level sight gauge. Stock item.
- New Dodge/AGMA/ISO viscosity standards
- New higher viscosity lubricant selections
- Brand options

Maximizing productivity and uptime is paramount in today's industry. By following some simple recommendations on lubrication, OEMs and users can improve product performance and reduce downtime. Remember, the purpose of speed reducer lubrication is to minimize frictional forces, eliminate wear and dissipate heat.

The American Gear Manufacturing Association (AGMA) and ISO have 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).



Oil sight glass



Oil sight tube

Recommended lubricants for Torque-Arm reducers*

Brand	With or without backstop		EP oils WITHOUT backstops	
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	629	SHC	629
220	SHC	630	SHC	630
320	SHC	632	SHC	632
Mobil				
150	Mobil DTE	BB	Mobil Gear	629
220	Extra Heavy	AA	Mobil Gear	630
320	–	–	Mobil Gear	632
Texaco				
150	Regal Oil R&O	150	Meropa	150
220	Regal Oil R&O	220	Meropa	220
320	Regal Oil R&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 Dodge Torque-Arm lubrication manual MN1682 (replaces #499336) or individual product manuals.

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

Harsh duty accessories

Related products

Harsh duty and sensorized accessories

Product	Part no.
TXT Enclosed breather system sm (1-10)	240050
TXT Enclosed breather system lg (12-15)	240051
Pressure breather vent plug	6-030657 *
TXT 1-4 Immersion heater	241103
TXT 5-6 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 TXT586 will not use the 1/2-3/4 bushing included with the hardware

Product	Part no.
Hydra-Lock – TXT1-TXT4 = size HL-0	964372
Hydra-Lock – TXT5-TXT9 = size HL-1	964364
Hydra-Lock – TXT10-TXT12 = size HL-2	964366
Hydra-Lock – TDT13-TDT15 = size HL-2	964366
Dodge OPTIFY sensor	750000

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

TXT-ABHS reducers

for airport baggage handling system conveyors

With 60 years of proven dependability and more than 2.0 million units in service throughout the world, Dodge Torque-Arm speed reducers are the standard of the industry.

Shaft mount concept

Twin-tapered mounting to the driven shaft

Material cost savings

- Eliminates support structures
- Eliminates chain, sprocket or coupling

Installed cost savings

- No installation and alignment of chains or coupling
- Simple installation and motor alignment

Compact flexible drive design

- Space savings
- Reducer mounts 360° around the shaft

Flexibility to change output speed

- Ease of changing V-belt drives
- Economical to change speeds
- Ability to fine tune speeds at a later date

Efficiency

- 98.5% per gear stage

Hollow bore

- Exclusive Twin-Tapered bushings
- Wide range of bore sizes

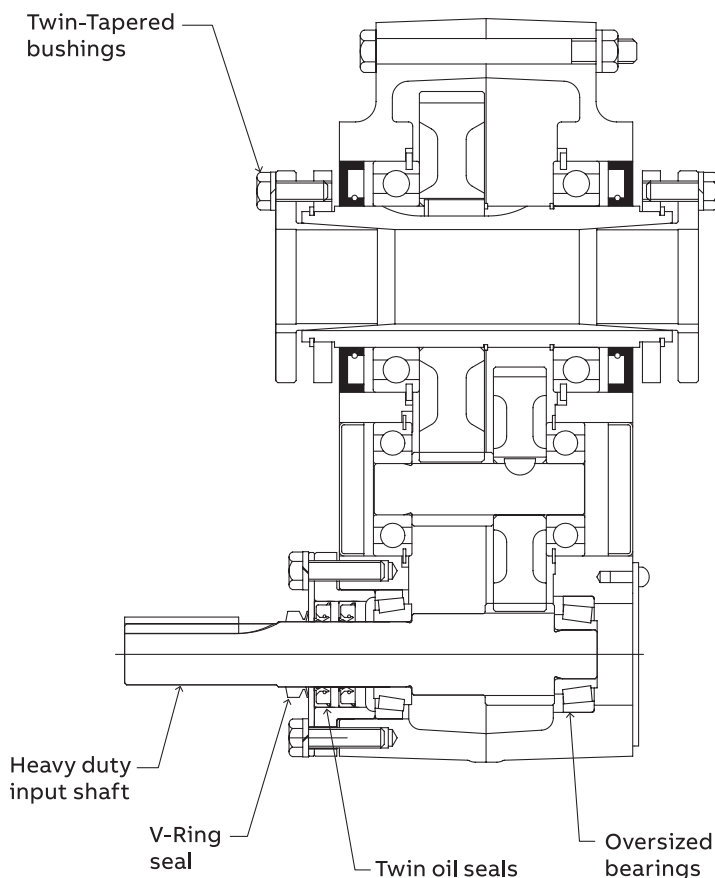
Performance

- Oversized input bearings and shaft for extended duty hours and service
- New premium material oil seals for continuous duty operation
- 100% factory tested and shipped with mobil DTE-BB premium lubrication
- Zinc plated torque arm rods for corrosion resistance
- Thousands of units in operation
- Maintenance Free
- Ease of repair, fewer spares, high parts availability
- Designed with years of industry analysis and research

Interchanges with standard Dodge TXT dimensions and ratios

36/12 warranty

Meets or exceeds AGMA standards



TXT-ABHS reducers

for airport baggage handling system conveyors



TXT-ABHS reducers

Size	Part number
TXT 125T ABHS Reducer ▲	241153 +
TXT 115T ABHS Reducer ▲	241155 +
TXT 109T ABHS Reducer ▲	241154 +
TXT 105T ABHS Reducer ▲	251120
TXT 225T ABHS Reducer ▲	242258
TXT 215T ABHS Reducer ▲	242257
TXT 209T ABHS Reducer ▲	242259
TXT 205T ABHS Reducer ▲	252120
TXT 325T ABHS Reducer	243251
TXT 315T ABHS Reducer	243252
TXT 309T ABHS Reducer	243253
TXT 305T ABHS Reducer	253199
TXT 425T ABHS Reducer	244251
TXT 415T ABHS Reducer	244252
TXT 409T ABHS Reducer	244253
TXT 405T ABHS Reducer	254199
TXT 525T ABHS Reducer	245251
XT 515T ABHS Reducer	245252
TXT 509T ABHS Reducer	245253
TXT 505T 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
XT 5 ABHS TA Assembly ~	245254

Dodge Torque-Arm speed reducer. The speed reducer shall be either a belt driven or direct coupled enclosed shaft mount type unit with a single or double reduction ratio. The reducer shall mount directly on the driven shaft and utilize an adjustable Torque-Arm that attaches from the gear case to the support structure or foundation.

The reducer housing shall be constructed of two-piece corrosion resistant, gray or ductile iron. 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.

+ 15/16" diameter input shaft.

▲ Backstops not available.

~ Torque-Arm 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.

Taper 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.)			242168
1-3/4			242166
1-11/16	TXT2 ABHS	TDT2	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.)			243276
2	TXT3 ABHS	TDT3	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

Reference Guide

Motorized Torque-Arm II

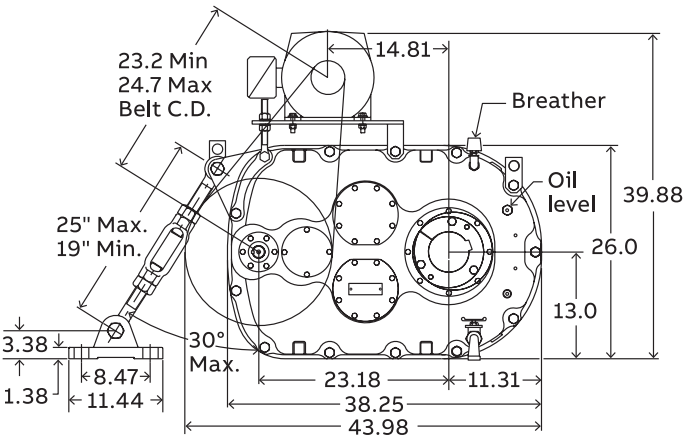
Torque-Arm II

Torque-Arm

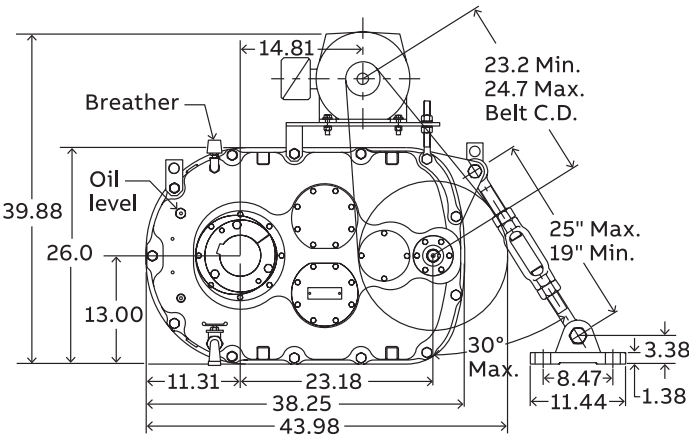
Bulk Material Handling

Bio-disc reducer

Dodge biological contact drive (Bio-disc) – Industrial 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 Torque-Arm that attaches to the support structure or foundation.

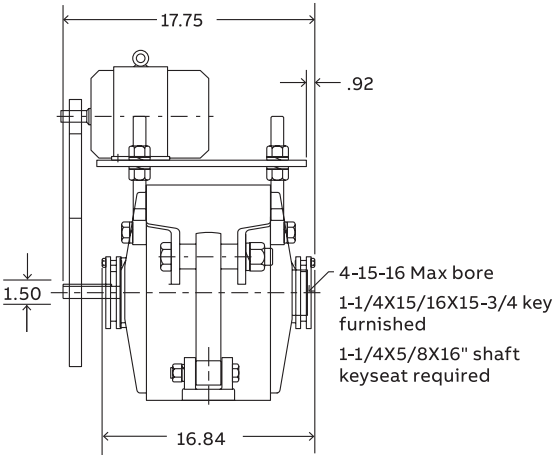
The reducer housing shall be constructed of two-piece corrosion resistant, gray iron and be ribbed for added strength. All housings shall be doweled and precision machined to assure accurate alignment for all gear sets. The reducer housing shall be painted with primer plus two (2) coats of epoxy ester enamel to minimize corrosion.

All gearing shall be of helical or spur design, and 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 7-1/2 horsepower at 1.5 RPM – Class I 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 gearboxes 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 inch. Reducer removal shall be accomplished by providing jack screw holes in the bushing flanges to mechanically remove the tapered assembly.



Dodge 188D Bio-disc drive products

5 Hp Class 2.0 service factor reducer	Part number
BioDisc drive gearbox and accessories*	259168
BioDisc V-drive kit**	BIO DR KIT
188D Universal belt guard	963763
Baldor 5 Hp, 1200 RPM, NEMA Premium Efficient, severe duty, ECP, 210 frame, TEFC motor	ECP3768T
Dodge OPTIFY sensor	750000
7.5 Hp Class 1.0 service factor reducer	Part number
BioDisc drive gearbox and accessories*	259168
BioDisc V-drive kit**	BIO DR KIT
188D Universal belt guard	963763
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

V-belt drives

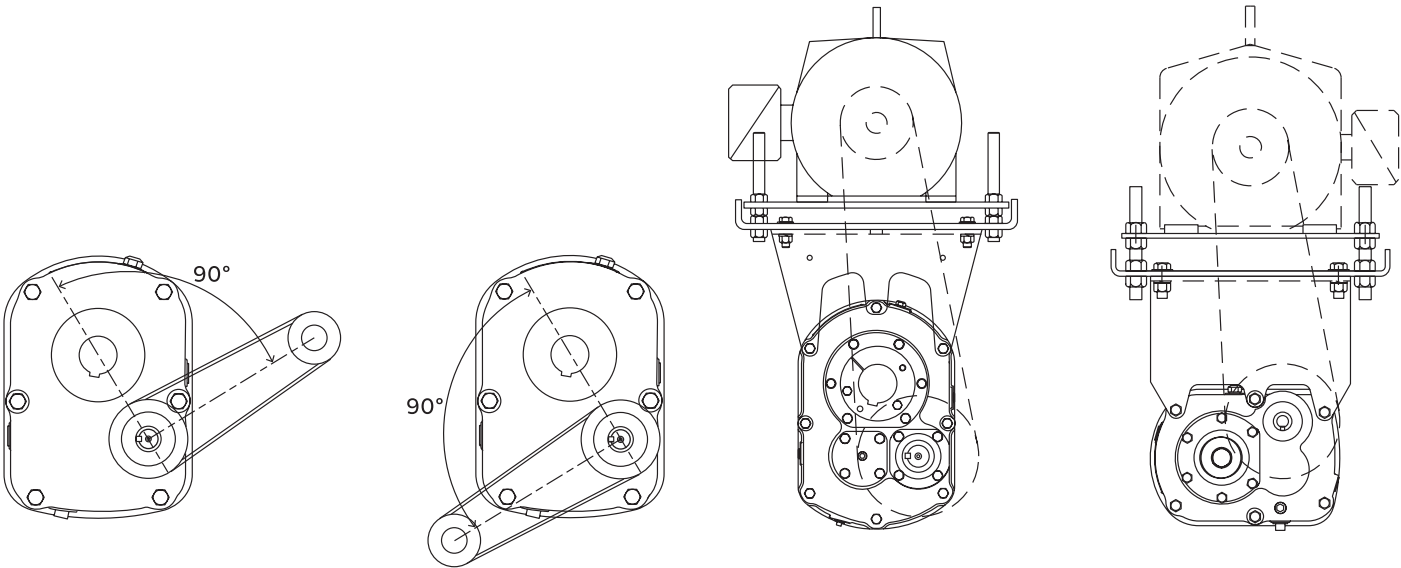
for Torque-Arm reducers and screw conveyor drive reducers

These are typical drives for average service conditions. For other conditions, output speeds or motor speeds, see reducer specifications for minimum driven sheave diameter and use V-belt drive selection tables.

For adequate horsepower, 3v, 5v, and 8v sheaves require 3VX, 5VX and 8VX belts; and A, B, C and D sheaves require AX, BX, CX and DX belts.

Keep driven sheave as close to reducer housing as possible.

The belt drive may be located in any convenient position. If the torque-arm is to be used to tighten the belts, the drive should be at about 90° to a line between the input and output shafts.



NEMA motor information (1750 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 Dodge Torque-Arm reducers

TXT, SCXT reducer	Single reduction		Double reduction			
	Shaft diameter	5:1	Shaft diameter	9:1	15:1	25:1
1	1-1/8	4.00	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

Related products

Nominal sheave ratios required for Dodge Torque-Arm reducers

5:1 Nominal reducer				9:1 Nominal reducer				15:1 Nominal reducer				25:1 Nominal reducer			
Reducer output RPM	Ratio			Reducer output RPM	Ratio			Reducer output RPM	Ratio			Reducer output RPM	Ratio		
	Motor speed				Motor speed				Motor speed				Motor speed		
	1750	1450	1170		1750	1450	1170		1750	1450	1170		1750	1450	1170
400.00	1.14	1.38	1.71	200.00	1.03	1.24	1.54	120.00	1.03	1.24	1.54	76.00	1.09	1.31	1.62
395.00	1.13	1.36	1.69	198.00	1.02	1.23	1.52	118.00	1.01	1.22	1.51	74.00	1.06	1.28	1.58
390.00	1.11	1.34	1.67	196.00	1.01	1.22	1.51	116.00	1.01	1.20	1.49	72.00	1.03	1.24	1.54
385.00	1.10	1.33	1.65	194.00	1.00	1.20	1.49	114.00	1.02	1.18	1.46	70.00	1.00	1.21	1.50
380.00	1.09	1.31	1.62	192.00	1.01	1.19	1.48	112.00	1.04	1.16	1.44	68.00	1.03	1.17	1.45
375.00	1.07	1.29	1.60	190.00	1.02	1.18	1.46	110.00	1.06	1.14	1.41	66.00	1.06	1.14	1.41
370.00	1.06	1.28	1.58	188.00	1.03	1.17	1.45	108.00	1.08	1.12	1.38	64.00	1.09	1.10	1.37
365.00	1.04	1.26	1.56	186.00	1.05	1.15	1.43	106.00	1.10	1.10	1.36	62.00	1.13	1.07	1.32
360.00	1.03	1.24	1.54	184.00	1.06	1.14	1.42	104.00	1.12	1.08	1.33	60.00	1.17	1.03	1.28
355.00	1.01	1.22	1.52	182.00	1.07	1.13	1.40	102.00	1.14	1.06	1.31	58.00	1.21	1.00	1.24
350.00	1.00	1.21	1.50	180.00	1.08	1.12	1.38	100.00	1.17	1.03	1.28	56.00	1.25	1.04	1.20
345.00	1.01	1.19	1.47	178.00	1.09	1.10	1.37	98.00	1.19	1.01	1.26	54.00	1.30	1.07	1.15
340.00	1.03	1.17	1.45	176.00	1.10	1.09	1.35	96.00	1.22	1.01	1.23	52.00	1.35	1.12	1.11
335.00	1.04	1.16	1.43	174.00	1.12	1.08	1.34	94.00	1.24	1.03	1.21	50.00	1.40	1.16	1.07
330.00	1.06	1.14	1.41	172.00	1.13	1.07	1.32	92.00	1.27	1.05	1.18	48.00	1.46	1.21	1.03
325.00	1.08	1.12	1.39	170.00	1.14	1.06	1.31	90.00	1.30	1.07	1.15	46.00	1.52	1.26	1.02
320.00	1.09	1.10	1.37	168.00	1.16	1.04	1.29	88.00	1.33	1.10	1.13	44.00	1.59	1.32	1.06
315.00	1.11	1.09	1.35	166.00	1.17	1.03	1.28	86.00	1.36	1.12	1.10	42.00	1.67	1.38	1.11
310.00	1.13	1.07	1.32	164.00	1.19	1.02	1.26	84.00	1.39	1.15	1.08	40.00	1.75	1.45	1.17
305.00	1.15	1.05	1.30	162.00	1.20	1.01	1.25	82.00	1.42	1.18	1.05	38.00	1.84	1.53	1.23
300.00	1.17	1.03	1.28	160.00	1.22	1.01	1.23	80.00	1.46	1.21	1.03	36.00	1.94	1.61	1.30
295.00	1.19	1.02	1.26	158.00	1.23	1.02	1.22	78.00	1.50	1.24	1.00	34.00	2.06	1.71	1.38
290.00	1.21	1.00	1.24	156.00	1.25	1.03	1.20	76.00	1.54	1.27	1.03	32.00	2.19	1.81	1.46
285.00	1.23	1.02	1.22	154.00	1.26	1.05	1.18	74.00	1.58	1.31	1.05	30.00	2.33	1.93	1.56
280.00	1.25	1.04	1.20	152.00	1.28	1.06	1.17	72.00	1.62	1.34	1.08	28.00	2.50	2.07	1.67
275.00	1.27	1.05	1.18	150.00	1.30	1.07	1.15	70.00	1.67	1.38	1.11	26.00	2.69	2.23	1.80
270.00	1.30	1.07	1.15	148.00	1.31	1.09	1.14	68.00	1.72	1.42	1.15	24.00	2.92	2.42	1.95
265.00	1.32	1.09	1.13	146.00	1.33	1.10	1.12	66.00	1.77	1.46	1.18	22.00	3.18	2.64	2.13
260.00	1.35	1.12	1.11	144.00	1.35	1.12	1.11	64.00	1.82	1.51	1.22	20.00	3.50	2.90	2.34
255.00	1.37	1.14	1.09	142.00	1.37	1.13	1.09	62.00	1.88	1.56	1.26	18.00	3.89	3.22	2.60
250.00	1.40	1.16	1.07	140.00	1.39	1.15	1.08	60.00	1.94	1.61	1.30	16.00	4.38	3.63	2.93
245.00	1.43	1.18	1.05	138.00	1.41	1.17	1.06	58.00	2.01	1.67	1.34	14.00	5.00	4.14	3.34
240.00	1.46	1.21	1.03	136.00	1.43	1.18	1.05	56.00	2.08	1.73	1.39	12.00	5.83	4.83	3.90
235.00	1.49	1.23	1.00	134.00	1.45	1.20	1.03	54.00	2.16	1.79	1.44	10.00	7.00	5.80	4.68
230.00	1.52	1.26	1.02	132.00	1.47	1.22	1.02	52.00	2.24	1.86	1.50	8.00	8.75	7.25	5.85
225.00	1.56	1.29	1.04	130.00	1.50	1.24	1.00	50.00	2.33	1.93	1.56	6.00	11.67	9.67	7.80
220.00	1.59	1.32	1.06	128.00	1.52	1.26	1.02	48.00	2.43	2.01	1.63	–	–	–	–
215.00	1.63	1.35	1.09	126.00	1.54	1.28	1.03	46.00	2.54	2.10	1.70	–	–	–	–

Nominal sheave ratios

Related products

Nominal sheave ratios required for Dodge Torque-Arm reducers

5:1 Nominal reducer				9:1 Nominal reducer				15:1 Nominal reducer				25:1 Nominal reducer			
Reducer output RPM	Ratio			Reducer output RPM	Ratio			Reducer output RPM	Ratio			Reducer output RPM	Ratio		
	Motor speed				Motor speed				Motor speed				Motor speed		
	1750	1450	1170		1750	1450	1170		1750	1450	1170		1750	1450	1170
210.00	1.67	1.38	1.11	124.00	1.57	1.30	1.05	44.00	2.65	2.20	1.77	—	—	—	—
205.00	1.71	1.41	1.14	122.00	1.59	1.32	1.07	42.00	2.78	2.30	1.86	—	—	—	—
200.00	1.75	1.45	1.17	120.00	1.62	1.34	1.08	40.00	2.92	2.42	1.95	—	—	—	—
195.00	1.79	1.49	1.20	118.00	1.65	1.37	1.10	38.00	3.07	2.54	2.05	—	—	—	—
190.00	1.84	1.53	1.23	116.00	1.68	1.39	1.12	36.00	3.24	2.69	2.17	—	—	—	—
185.00	1.89	1.57	1.26	114.00	1.71	1.41	1.14	34.00	3.43	2.84	2.29	—	—	—	—
180.00	1.94	1.61	1.30	112.00	1.74	1.44	1.16	32.00	3.65	3.02	2.44	—	—	—	—
175.00	2.00	1.66	1.34	110.00	1.77	1.46	1.18	30.00	3.89	3.22	2.60	—	—	—	—
170.00	2.06	1.71	1.38	108.00	1.80	1.49	1.20	28.00	4.17	3.45	2.79	—	—	—	—
165.00	2.12	1.76	1.42	106.00	1.83	1.52	1.23	26.00	4.49	3.72	3.00	—	—	—	—
160.00	2.19	1.81	1.46	104.00	1.87	1.55	1.25	24.00	4.86	4.03	3.25	—	—	—	—
155.00	2.26	1.87	1.51	102.00	1.91	1.58	1.27	22.00	5.30	4.39	3.55	—	—	—	—
150.00	2.33	1.93	1.56	100.00	1.94	1.61	1.30	20.00	5.83	4.83	3.90	—	—	—	—
145.00	2.41	2.00	1.61	—	—	—	—	18.00	6.48	5.37	4.33	—	—	—	—
140.00	2.50	2.07	1.67	—	—	—	—	16.00	7.29	6.04	4.88	—	—	—	—
135.00	2.59	2.15	1.73	—	—	—	—	14.00	8.33	6.90	5.57	—	—	—	—
130.00	2.69	2.23	1.80	—	—	—	—	12.00	9.72	8.06	6.50	—	—	—	—
125.00	2.80	2.32	1.87	—	—	—	—	10.00	11.67	9.67	7.80	—	—	—	—
120.00	2.92	2.42	1.95	—	—	—	—	—	—	—	—	—	—	—	—
115.00	3.04	2.52	2.03	—	—	—	—	—	—	—	—	—	—	—	—
110.00	3.18	2.64	2.13	—	—	—	—	—	—	—	—	—	—	—	—
105.00	3.33	2.76	2.23	—	—	—	—	—	—	—	—	—	—	—	—
100.00	3.50	2.90	2.34	—	—	—	—	—	—	—	—	—	—	—	—

Speed Increase Ratios are shown in bold type

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Nominal sheave ratios

Nominal sheave speed (RPM) at input for Dodge reducers – 1750 motor

Nominal sheave speed (RPM) at input for Dodge reducers 1750 RPM motor

Reference Guide	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
Motorized Torque-Arm II	400.00	2000	200.00	1800	120.00	1800	76.00	1900
	395.00	1975	198.00	1782	118.00	1770	74.00	1850
	390.00	1950	196.00	1764	116.00	1740	72.00	1800
	385.00	1925	194.00	1746	114.00	1710	70.00	1750
	380.00	1900	192.00	1728	112.00	1680	68.00	1700
	375.00	1875	190.00	1710	110.00	1650	66.00	1650
	370.00	1850	188.00	1692	108.00	1620	64.00	1600
	365.00	1825	186.00	1674	106.00	1590	62.00	1550
	360.00	1800	184.00	1656	104.00	1560	60.00	1500
	355.00	1775	182.00	1638	102.00	1530	58.00	1450
Torque-Arm II	350.00	1750	180.00	1620	100.00	1500	56.00	1400
	345.00	1725	178.00	1602	98.00	1470	54.00	1350
	340.00	1700	176.00	1584	96.00	1440	52.00	1300
	335.00	1675	174.00	1566	94.00	1410	50.00	1250
	330.00	1650	172.00	1548	92.00	1380	48.00	1200
	325.00	1625	170.00	1530	90.00	1350	46.00	1150
	320.00	1600	168.00	1512	88.00	1320	44.00	1100
	315.00	1575	166.00	1494	86.00	1290	42.00	1050
	310.00	1550	164.00	1476	84.00	1260	40.00	1000
	305.00	1525	162.00	1458	82.00	1230	38.00	950
Torque-Arm	300.00	1500	160.00	1440	80.00	1200	36.00	900
	295.00	1475	158.00	1422	78.00	1170	34.00	850
	290.00	1450	156.00	1404	76.00	1140	32.00	800
	285.00	1425	154.00	1386	74.00	1110	30.00	750
	280.00	1400	152.00	1368	72.00	1080	28.00	700
	275.00	1375	150.00	1350	70.00	1050	26.00	650
	270.00	1350	148.00	1332	68.00	1020	24.00	600
	265.00	1325	146.00	1314	66.00	990	22.00	550
	260.00	1300	144.00	1296	64.00	960	20.00	500
	255.00	1275	142.00	1278	62.00	930	18.00	450
Bulk Material Handling	250.00	1250	140.00	1260	60.00	900	16.00	400
	245.00	1225	138.00	1242	58.00	870	14.00	350
	240.00	1200	136.00	1224	56.00	840	12.00	300
	235.00	1175	134.00	1206	54.00	810	10.00	250
	230.00	1150	132.00	1188	52.00	780	8.00	200
	225.00	1125	130.00	1170	50.00	750	6.00	150
	220.00	1100	128.00	1152	48.00	720	–	–
	215.00	1075	126.00	1134	46.00	690	–	–
	210.00	1050	124.00	1116	44.00	660	–	–
	205.00	1025	122.00	1098	42.00	630	–	–
	200.00	1000	120.00	1080	40.00	600	–	–
	195.00	975	118.00	1062	38.00	570	–	–
	190.00	950	116.00	1044	36.00	540	–	–
	185.00	925	114.00	1026	34.00	510	–	–
	180.00	900	112.00	1008	32.00	480	–	–
	175.00	875	110.00	990	30.00	450	–	–
	170.00	850	108.00	972	28.00	420	–	–
	165.00	825	106.00	954	26.00	390	–	–
	160.00	800	104.00	936	24.00	360	–	–
	155.00	775	102.00	918	22.00	330	–	–
	150.00	750	100.00	900	20.00	300	–	–
	145.00	725	–	–	18.00	270	–	–
	140.00	700	–	–	16.00	240	–	–
	135.00	675	–	–	14.00	210	–	–
	130.00	650	–	–	12.00	180	–	–
	125.00	625	–	–	10.00	150	–	–
	120.00	600	–	–	–	–	–	–
	115.00	575	–	–	–	–	–	–
	110.00	550	–	–	–	–	–	–
	105.00	525	–	–	–	–	–	–
	100.00	500	–	–	–	–	–	–

Protection plan

Related products

Pre-packaged rebuild kits for TXT, SCXT & Torque-Arm II reducers

Dodge Torque-Arm 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 Dodge Torque-Arm reducers to factory tolerances and specifications, use only genuine Dodge replacement parts.

Preventive actions such as scheduled maintenance and on-site inventory of Torque-Arm 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 & output Seals
- Complete set of bearings
- Shim kit
- Gearcase sealant
- Instruction manual

Level 2 Kit Includes:

- 1st stage input shaft with pinion
- 1st stage mating gear
- Input & 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 (not included in kit).



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.



Paint – Touch up

To restore damaged paint following the rebuild you may order Dodge part number 810001 on PTPlace. This is a 12 oz aerosol spray can of factory original Reliance blue-green paint.

Protection plan

TDT-TX-SCX-SCXT Torque-Arm rebuild kits

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

TXT-TDT rebuild kits

Size	Size/Ratio	Level 1	Level 2
TXT1	TXT109	392270	392271
	TXT115		392272
	TXT125		392273
TXT1A	TXT109A	392270	392271
	TXT115A		392272
	TXT125A		392273
TXT2	TXT209	392274	392275
	TXT215		392276
	TXT225		392277
TXT2A	TXT209A	392274	392275
	TXT215A		392276
	TXT225A		392277
TXT3A	TXT309A	392278	392279
	TXT315A		392280
	TXT325A		392281
TXT3B	TXT309B	392278	392279
	TXT315B		392280
	TXT325B		392281
TXT4A	TXT409A	392282	392283
	TXT415A		392284
	TXT425A		392285
TXT4B	TXT409B	392282	392283
	TXT415B		392284
	TXT425B		392285
TXT5B	TXT509B	392287	392288
	TXT515B		392289
	TXT525B		392290
TXT5C	TXT509C	392287	392288
	TXT515C		392289
	TXT525C		392290
TXT-TDT6	TXT609	392291	392292
	TXT615		392293
	TXT625		392294
TXT6A	TXT609A	392291	392292
	TXT615A		392293
	TXT625A		392294
TXT-TDT7	TXT709	392295	392296
	TXT715		392297
	TXT725		392298
TXT7A	TXT709A	392295	392296
	TXT715A		392297
	TXT725A		392298
TXT-TDT8	TXT815	392299	392300
	TXT825		392301
TXT8A	TXT815A	392299	392300
	TXT825A		392301
TXT-TDT9	TXT915	392302	392303
	TXT926		392304
TXT9A	TXT915A	392302	392303
	TXT926A		392304
TXT-TDT10	TXT1015	392305	392306
	TXT1024		392307

TXT-TDT rebuild kits

Size	Size/Ratio	Level 1	Level 2
TXT10A	TXT1015A	392305	392306
	TXT1024A		392307
TXT-TDT12	TXT1215	392308	392309
	TXT1225		392310
TDT13	TDT1325	392311	392312
TDT14	TDT1425	392313	392314
SCXT1	SCXT109	392395	392398
	SCXT115		392399
	SCXT125		392400
SCXT1A	SCXT109A	392395	392398
	SCXT115A		392399
	SCXT125A		392400
SCXT2	SCXT209	392396	392401
	SCXT215		392402
	SCXT225		392403
SCXT2A	SCXT209A	392396	392401
	SCXT215A		392402
	SCXT225A		392403
SCXT3A	SCXT309A	392278	392279
	SCXT315A		392280
	SCXT325A		392281
SCXT3B	SCXT309B	392278	392279
	SCXT315B		392280
	SCXT325B		392281
SCXT4A	SCXT409A	392282	392283
	SCXT415A		392284
	SCXT425A		392285
SCXT4B	SCXT409B	392282	392283
	SCXT415B		392284
	SCXT425B		392285
SCXT5B	SCXT509B	392287	392288
	SCXT515B		392289
	SCXT525B		392290
SCXT5C	SCXT509C	392287	392288
	SCXT515C		392289
	SCST525C		392290
SCXT6	SCXT609	392291	392292
	SCXT615		392293
	SCXT625		392294
SCXT6A	SCXT609A	392291	392292
	SCXT615A		392293
	SCXT625A		392294
SCXT7	SCXT709	392295	392296
	SCXT715		392297
	SCXT725		392298
SCXT7A	SCXT709A	392295	392296
	SCXT715A		392297
	SCXT725A		392298
SCXT8	SCXT815	392397	392404
	SCXT825		392405
SCXT8A	SCXT815A	392397	392404
	SCXT825A		392405

Protection plan

TXT and SCXT Torque-Arm rebuild kits – 5:1 ratio

TXT rebuild kits – 5:1 ratio

Size	Level 1
TXT105	392379
TXT205	392380
TXT305A	392381
TXT405A	392382
TXT505A	392383
TXT605	392384
TXT705	392385
TXT805	392386
TXT905	392387

SCXT rebuild kits – 5:1 ratio

Size	Level 1
SCXT105	392388
SCXT205	392389
SCXT305A	392390
SCXT405A	392391
SCXT505A	392392
SCXT605	392393
SCXT705	392394

Engineering and Technical

Lubrication



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



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

Lubrication is extremely important for satisfactory operation. The proper oil level as shown on page 161 & 162, showing oil level plug location, must be maintained at all times. Approximate oil quantities are shown on page 134. Frequent inspections with the unit not running and allowing sufficient time for the oil to cool and the entrapped air to settle out of the oil should be made by removing the level plug to see that the level is being maintained. If low, add the proper type and viscosity of lubricant through one of the upper openings until it comes out of the oil level hole. Replace the oil level plug securely. Refer to Tables 1 and 2 for viscosity recommendations.

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



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

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

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

Operating temperatures

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

Lubrication

Engineering and technical

Table 1 – Oil recommendations

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

Output	TXT, SCXT, HXT Reducers													
RPM	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	TXT, SCXT, HXT Reducers													
RPM	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:

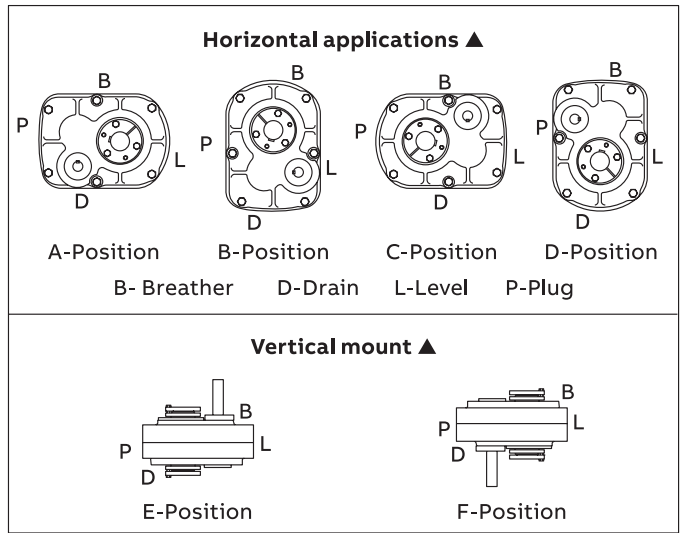
1. Assumes auxiliary cooling where recommended in the catalog.
2. Pour point of lubricant selected should be at least 10°F. lower than expected minimum ambient starting temperature.
3. Extreme pressure (EP) lubricants are not necessary for average operating conditions. Torque-Arm internal backstops are 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 disulfide 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 Gear application engineering (864) 284-5700 for lubrication recommendation.

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. 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° either way from sketches, the oil level plug cannot be safely used to check the oil level, unless during the checking the torque arm is disconnected and the reducer is swung to within 20° in position B or D, or 5° in position A and C shown below. Because of the many possible positions of the reducer, it may be necessary or desirable to make special adaptations using the lubrication fitting holes furnished along with other standard pipe fittings, stand pipes and oil level gauges as required.

Mounting positions



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

Vertical installations - Install the 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

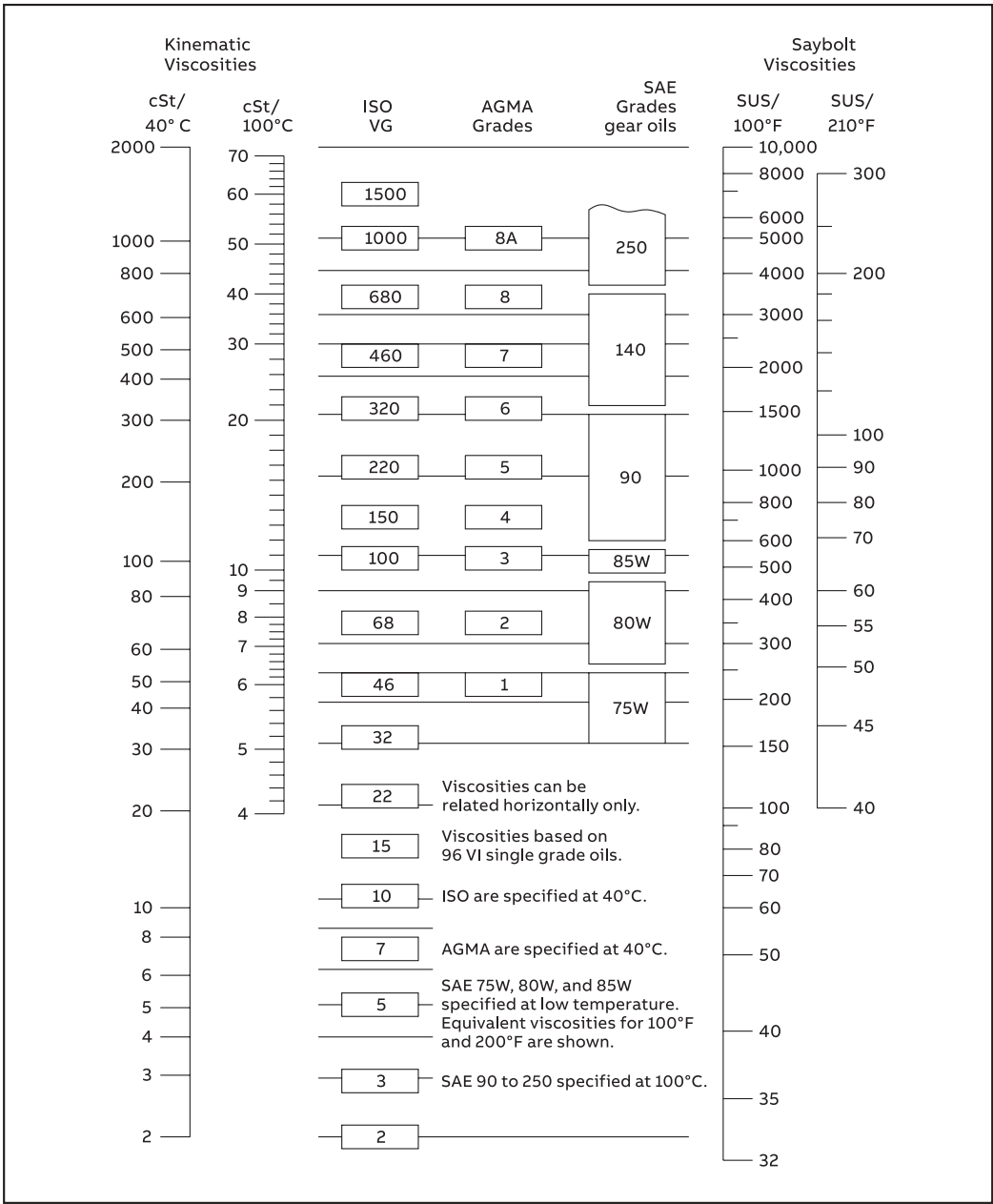
Table with 7 columns: Reducer size, Reducer positions (Horizontal, Vertical), and oil capacity in quarts. Rows include various reducer models like 109, 115, 125, 105, 209, 215, 225, etc.

U.S. Measure: 1 qt. = 32 fluid oz. = .94616 liters
Consult Dodge for proper oil level for reducers with backstops and which are mounted in C-position or D-position.

Viscosity classification equivalents

Engineering and technical

Oil viscosity equivalency chart



ISO Viscosity Classification System

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

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

$$\text{SUS @ 100°F} \div 5 = \text{cSt @ 40°C}$$

Flange mounting pads

Engineering and technical

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 for delivery. Consult Dodge for allowable output shaft overhung loads.

TXT flange mount taper bushed reducers (1) (2) (3)

Part no.	Reducer size	Weight
241415	TXT105T Flange mount reducer	40
241417	TXT115AT Flange mount reducer	45
241419	TXT125AT Flange mount reducer	45
242415	TXT205T Flange mount reducer	52
242417	TXT215AT Flange mount reducer	58
242419	TXT225AT Flange mount reducer	58
243620	TXT305AT Flange mount reducer	86
243622	TXT315BT Flange mount reducer	98
243624	TXT325BT Flange mount reducer	98
244381	TXT405AT Flange mount reducer	122
244383	TXT415BT Flange mount reducer	139
244385	TXT425BT Flange mount reducer	139
245341	TXT505AT Flange mount reducer	182
245343	TXT515CT Flange mount reducer	207
245345	TXT525CT Flange mount reducer	207
246428	TXT605T Flange mount reducer	251
246430	TXT615AT Flange mount reducer	285
246432	TXT625AT Flange mount reducer	285
247431	TXT705T Flange mount reducer	410
247433	TXT715AT Flange mount reducer	462
247435	TXT725AT Flange mount reducer	462
248414	TXT805T Flange mount reducer	557
248416	TXT815AT Flange mount reducer	633
248418	TXT825AT Flange mount reducer	633
249414	TXT905T Flange mount reducer	668
249416	TXT915AT Flange mount reducer	760
249418	TXT926AT Flange mount reducer	760
250416	TXT1015AT Flange mount reducer	1020
250418	TXT1024AT Flange mount reducer	1020

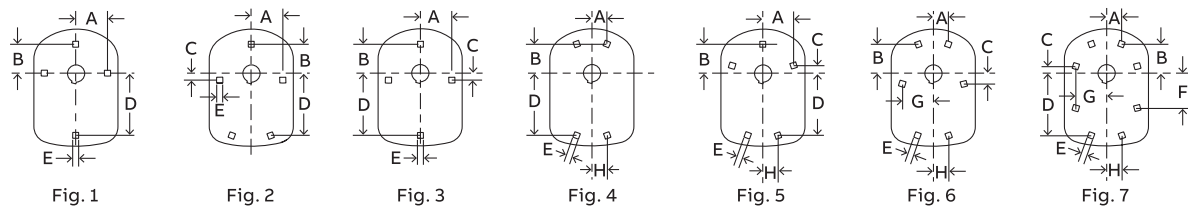
TXT flange mount straight bore reducers (1) (2) (3)

Part no.	Reducer size	Weight
241416	TXT105S Flange mount reducer	40
241418	TXT115AS Flange mount reducer	45
241420	TXT125AS Flange mount reducer	45
242416	TXT205S Flange mount reducer	52
242418	TXT215AS Flange mount reducer	58
242420	TXT225AS Flange mount reducer	58
243621	TXT305AS Flange mount reducer	86
243623	TXT315BS Flange mount reducer	98
243625	TXT325BS Flange mount reducer	98
244382	TXT405AS Flange mount reducer	122
244384	TXT415BS Flange mount reducer	139
244386	TXT425BS Flange mount reducer	139
245342	TXT505AS Flange mount reducer	182
245344	TXT515CS Flange mount reducer	207
245346	TXT525CS Flange mount reducer	207
246429	TXT605S Flange mount reducer	251
246431	TXT615AS Flange mount reducer	285
246433	TXT625AS Flange mount reducer	285
247432	TXT705S Flange mount reducer	410
247434	TXT715AS Flange mount reducer	462
247436	TXT725AS Flange mount reducer	462
248415	TXT805S Flange mount reducer	557
248417	TXT815AS Flange mount reducer	633
248419	TXT825AS Flange mount reducer	633
249415	TXT905S Flange mount reducer	668
249417	TXT915AS Flange mount reducer	760
249419	TXT926AS Flange mount reducer	760
250417	TXT1015AS Flange mount reducer	1020
250419	TXT1024AS Flange mount reducer	1020

- (1) Flange mount reducers are Made-to-order with two week cycle time.
 (2) Torque-Arm Assembly not included with flange mount reducers.
 (3) TXT12 & TDT13-15 reducers are supplied from stock already drilled and tapped for flange mounting. See page G3-58 through G3-61.

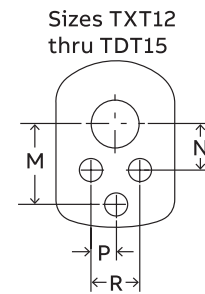
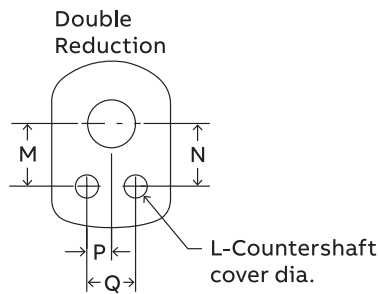
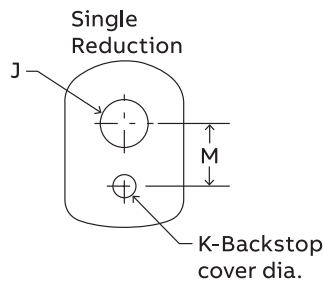
Flange mounting pads

Flange mounting drilling dimensions and clearance dimensions



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

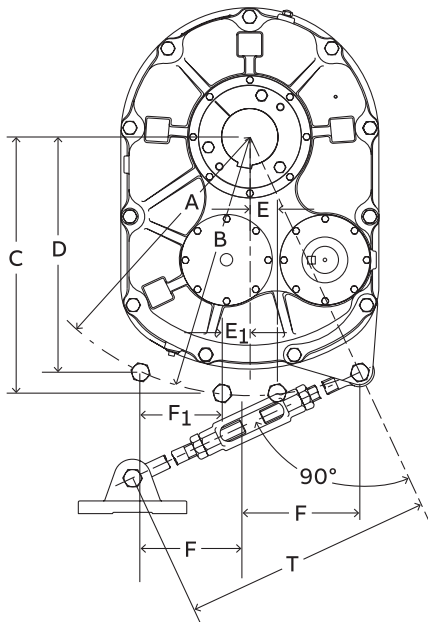


Flange mounting clearance dimensions

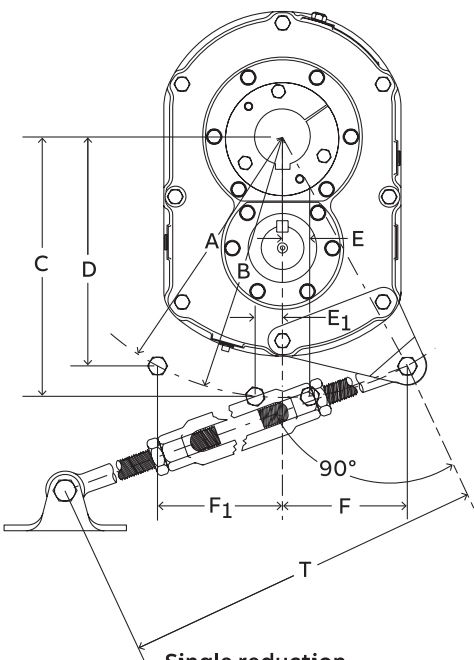
Reducer size	Nominal ratio	J	K	L	M	N	P	Q	R	Reducer size	Nominal ratio	J	K	L	M	N	P	Q	R
TXT1	9, 15, 25	3-1/4	2-9/16	—	3-3/16	3-3/16	1-29/32	2-17/32	—	TXT7	9, 15, 25	9-1/8	5-1/16	4-11/16	8-5/16	8-5/32	5-1/8	6-3/4	—
TXT1	5	3-1/4	2-13/16	—	3-1/4	—	—	—	—	TXT7	5	9-1/8	5-1/16	—	8-5/16	—	—	—	—
TXT2	9, 15, 25	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 rod mounting positions

Engineering and technical



Double reduction
Torque-Arm reducers



Single reduction
Torque-Arm reducers

Torque-Arm rod optional mounting positions for TXT1 through TXT10 double reduction reducers ~

Reducer size	A - Radius	B - Radius	C	D	E, E1	F, F1	T	
							Min.	Max.
TXT1A	8.00	–	–	7.25	–	3.41	23.81	29.63
TXT2A	8.75	9.00	8.94	7.50	0.81	4.50	26.94	32.94
TXT3B	10.16	10.38	10.31	8.88	0.97	4.94	26.94	32.94
TXT4B	11.47	11.84	11.78	10.06	1.09	5.50	29.19	35.19
TXT5C	13.75	14.03	13.97	12.06	1.00	6.63	29.19	35.19
TXT6A	15.69	15.88	15.84	13.63	0.94	7.75	29.19	35.19
TXT7A	18.19	18.84	18.81	15.88	1.25	8.94	29.44	35.44
TXT8A	21.00	21.38	21.38	19.56	–	7.63	30.00	36.00
TXT9A	22.72	23.63	23.63	20.63	–	9.50	30.00	36.00
TXT10A	25.20	25.56	25.56	23.56	–	8.94	30.00	36.00

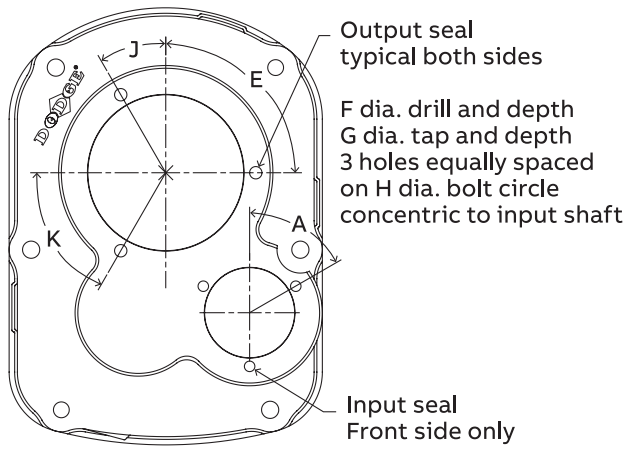
Torque-Arm rod optional mounting positions for TXT105 through TXT905 single reduction reducers ~

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
TXT305A	10.16	10.38	10.31	8.88	0.97	4.94	26.94	32.94
TXT405A	11.47	11.84	11.78	10.06	1.09	5.50	29.19	35.19
TXT505A	14.53	14.81	14.78	12.59	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 Torque-Arm rod in tension. However, the design allows mounting in compression as well. If mounted in compression, observe the tolerance $\pm 20^\circ$ to the 90° referenced above, to minimize bending.
The housing direction will be opposite to the direction of output or driven shaft rotation.

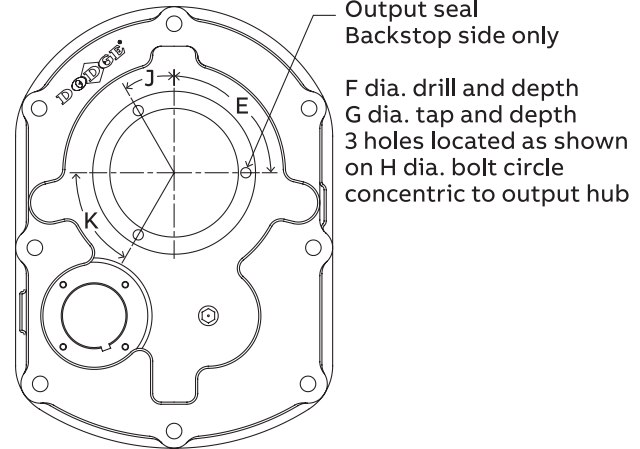
Machining dimensions for installation of taconite auxiliary seal kits

Engineering and technical



TXT Size 1 & 2

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 3, 4 & 5

TXT1A through TXT5C and TXT105 through TXT505A

Reducer size	A (Degrees)	B ▲ (Inches)	C (Inches)	D (Inches)	E (Degrees)	F ▲ (Inches)	G (Inches)	H (Inches)	J (Degrees)	K (Degrees)
TXT1A	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°
TXT2A	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°
TXT3B	N/A	—	—	—	90°	#F DIA 3/4 DP	5/16-18 17/32 DP	5-1/4	30°	50°
TXT4B	N/A	—	—	—	30°	5/16 DIA 15/16 DP	3/8-16 9/16 DP	6.0	90°	130°
TXT5C	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°
TXT305A	N/A	—	—	—	90°	#F DIA 3/4 DP	5/16-18 17/32 DP	5-1/4	30°	50°
TXT405A	N/A	—	—	—	30°	5/16 DIA 15/16 DP	3/8-16 9/16 DP	6.0	90°	130°
TXT505A	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

Engineering and technical

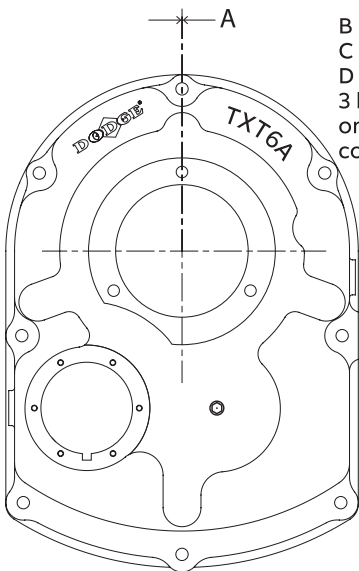
Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

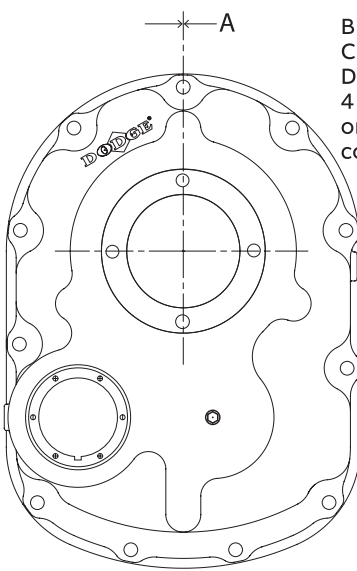
Bulk Material Handling



TXT Size 6A
Backstop side only

TXT 6A only
Output seal installation
Backstop side only

B dia. drill and depth
C dia. tap and depth
D counterbore dia. and depth
3 holes equally spaced
on E dia. bolt circle
concentric to output hub



TXT Size 7A thru 10A
Backstop side only

TXT7A thru TXT10A only
Output seal installation
Backstop side only

B dia. drill and depth
C dia. tap and depth
D counterbore dia. and depth
4 holes equally spaced
on E dia. bolt circle
concentric to output hub

Reducer size	A (Degrees)	B ▲ (Inches)	C (Inches)	D (Inches)	E (Inches)
TXT6A	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	
TXT7A	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	
TXT8A	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	
TXT9A	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	
TXT10A	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 maximum and must not be exceeded.

TXT and SCXT maximum input and driven speeds

TXT output shaft overhung load ratings

TXT WR² at high speed shaft

Maximum input and driven speeds for TXT and SCXT reducers

Single reduction			Double reduction													
Reducer size	Input	Driven	Reducer size	Input RPM			Driven RPM			Reducer size	Input RPM			Driven RPM		
TXT/SCXT1	2248	400		Nominal ratio			Nominal ratio				Nominal ratio			Nominal ratio		
TXT/SCXT2	2116	400		9	15	25	9	15	25		15	25	30	15	25	30
TXT/SCXT3	2240	400	TXT/SCXT1	1888	2149	2179	200	140	85	TXT/SCXT8	1809	1847	–	120	75	–
TXT/SCXT4	2260	400	TXT/SCXT2	1850	1974	1994	200	140	85	TXT9	1814	1925	–	120	75	–
TXT/SCXT5	2268	400	TXT/SCXT3	1782	2083	2100	200	140	85	TXT10	1819	1823	–	120	75	–
TXT/SCXT6	2268	400	TXT/SCXT4	1934	2118	2072	200	140	85	TXT12	1786	1849	–	120	75	–
TXT/SCXT7	2144	400	TXT/SCXT5	1790	1925	2044	200	125	80	TDT13	–	1855	–	–	75	–
TXT8	2200	400	TXT/SCXT6	1840	1916	2010	200	125	80	TDT14	–	1860	–	–	75	–
TXT9	2154	400	TXT/SCXT7	1922	1827	1844	200	120	75	TDT15	–	–	1746	–	57	–

Output shaft overhung load ratings for double reduction TXT reducers

Reducer size	Nominal ratio	Shaft size	Overhung load (Lbs.) @ various RPM's *										
			10	20	30	50	80	100	120	140	160	180	200
TXT1	9, 15, 25	1-1/4 1-7/16	1990	1520	1300	1100	930	780	760	740	720	700	680
TXT2	9, 15, 25	1-7/16 1-15/16	2000	1510	1270	1010	840	820	720	720	710	710	700
TXT3	9, 15, 25	1-15/16 2-3/16	5400	4250	3680	3050	2620	2440	2310	2210	2110	2040	1980
TXT4	9, 15, 25	2-3/16 2-7/16	6520	5180	4510	3800	3230	3000	2830	2710	2600	2510	2430
TXT5	9, 15, 25	2-7/16 2-15/16	7460	5860	5080	4280	3690	3450	3270	3110	2980	2880	2790
TXT6	9, 15, 25	2-15/16 3-7/16	9100	7100	6100	5000	4100	4050	3700	3550	3400	3300	3200
TXT7	9, 15, 25	3-7/16	8200	6400	5500	4500	3700	3650	3400	3300	3250	3200	3150
TXT7	9, 15, 25	3-7/16	11,400	9500	7300	5950	4750	5050	4500	4300	4250	4200	4150

* Values shown are for loads applied at one output shaft diameter from reducer bushing. Interpolate for values between RPM's listed.

Output shaft overhung load ratings for single reduction TXT reducers

Reducer size	Nominal ratio	Shaft size	Overhung load (lbs.) @ various RPM's *						
			100	150	200	250	300	350	400
TXT1	5	1-1/4	775	610	600	500	500	500	490
		1-7/16	660	520	520	430	430	420	420
TXT2	5	1-7/16	760	620	530	530	530	530	520
		1-15/16	665	545	470	470	470	460	460
TXT3	5	1-15/16	2370	2100	1950	1840	1760	1700	1660
		2-3/16	2300	2040	1890	1780	1710	1650	1610
TXT4	5	2-3/16	3030	2720	2490	2310	2170	2060	1970
		2-7/16	2930	2640	2400	2240	2100	1990	1900
TXT5	5	2-7/16	3080	2750	2560	2400	2260	2160	2080
		2-15/16	2920	2610	2430	2270	2140	2050	1980
TXT6	5	2-15/16	4350	3850	3500	3250	3200	3100	3050
		3-7/16	3950	3500	3200	2950	2900	2800	2750
TXT7	5	3-7/16	3800	3650	3300	3450	3500	3400	3300

* Values shown are for loads applied at one output shaft diameter from reducer bushing. Interpolate for values between RPM's listed.

WR2 (Lb.-FT2) at high speed shaft for TXT reducers *

Reducer size	Nominal ratio				Reducer size	Nominal ratio			
	5:1	9:1	15:1	25:1		5:1	9:1	15:1	25:1
TXT1	0.002	0.013	0.008	0.007	TXT9	1.66	–	1.39	0.794
TXT2	0.013	0.027	0.011	0.007	TXT10	–	–	1.63	0.927
TXT3	0.034	0.059	0.026	0.013	TXT12	–	–	7.71	3.68
TXT4	0.075	0.092	0.043	0.023	TDT13	–	–	–	6.56
TXT5	0.15	0.233	0.099	0.067	TDT14	–	–	–	9.0
TXT6	0.201	0.461	0.197	0.109	TDT15	–	–	–	11.42
TXT7	0.48	1.004	0.417	0.285	–	–	–	–	–
TXT8	0.96	–	0.942	0.571	–	–	–	–	–

* For WR2 at low speed shaft, multiply WR2 value listed by (actual ratio) 2.

Thrust capacity of screw conveyor drive reducers

Engineering and technical

The screw conveyor drive reducer uses tapered roller bearings which take thrust in either direction from the screw conveyor. This eliminates the need for external thrust bearings commonly used.

Thrust capacity of screw conveyor drive reducers (pounds) ●

Reducer size	Screw conveyor RPM						
	80	100	120	140	160	180	200
SCXT109A	3986	3765	3588	3434	3303	3192	3092
SCXT209A	5389	5025	4742	4505	4304	4138	3990
SCXT309B	5290	4920	4660	4450	4240	4100	3970
SCXT409B	6000	6000	5800	5500	5200	5000	5000
SCXT509C	6000	6000	6000	6000	5800	5700	5500
SCXT609A	6000	6000	6000	6000	6000	6000	6000
SCXT709A	4863	4527	4244	3959	3713	3520	3335

Reducer size	Screw conveyor RPM					
	25	50	75	100	125	140
SCXT115A	6000	4840	4220	3820	3540	3414
SCXT215A	6000	6000	5440	4920	4560	4380
SCXT315B	6000	6000	5400	4920	4600	4450
SCXT415B	6000	6000	6000	6000	5800	5600
SCXT515C	6000	6000	6000	6000	6000	–
SCXT615A	6000	6000	6000	6000	6000	–
SCXT715A †	6000	6000	5220	4530	–	–

Reducer size	Screw conveyor RPM				
	25	50	75	80	85
SCXT125A	6000	4840	4220	4130	4040
SCXT225A	6000	6000	5440	5320	5000
SCXT325B	6000	6000	5400	5290	5200
SCXT425B	6000	6000	6000	6000	6000
SCXT525C	6000	6000	6000	6000	–
SCXT625A	6000	6000	6000	6000	–
SCXT725A	6000	6000	5220	–	–

Reducer size	Screw conveyor RPM						
	100	150	200	250	300	350	400
SCXT105	6000	5500	5060	4730	4520	4340	4200
SCXT205	5310	4760	4390	4160	3970	3810	3680
SCXT305A	6000	5300	4900	4600	4400	4300	4200
SCXT405A	6000	5900	5500	5000	4600	4500	4500
SCXT505B	6000	6000	6000	6000	5700	5400	5000
SCXT605	6000	6000	6000	6000	6000	6000	6000
SCXT705	5860	5500	4810	4710	4830	4980	4900

† Actual maximum output speed for SCXT715 reducer is 120 RPM

● Consult Dodge for SCXT8 thrust capacity

Guidelines for long-term storage

Engineering and technical

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

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

Preparation

1. Drain the oil from the unit. Add a vapor phase corrosion inhibiting oil such as VCI-105 oil by Daubert Chemical Co.
2. Seal the unit air tight. Replace the vent plug with 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.

VCI #105 oil for Torque-Arm reducers

Case size	Quarts or liters
TXT1	0.1
TXT2	0.1
TXT3	0.1
TXT4	0.2
TXT5	0.3
TXT6	0.4
TXT7	0.5
TXT8	0.6
TXT9	0.9
TXT10	1.3
TXT11	1.9
TXT12	2.5

VCI #105 & #10 are interchangeable, but VCI #105 is more readily available.

When placing the reducer into service

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

Troubleshooting guide

Engineering and technical

Troubleshooting guide for Torque-Arm reducers

Symptom	Probable cause	Remedy
Excessive noise and vibration	Improper arm attachment.	Check instructions and correct. Tighten all fasteners properly.
	Low oil level.	Check level. Fill to proper oil capacity per instruction manual.
	Excessive premature gear wear due to improper size reducer.	Reselect reducer in catalog with proper service factor. Replace worn unit.
	Driven shaft undersized.	Replace shaft or remachine to properly fit next smaller bushing size. (Check shaft strength.)
	Driven shaft bent.	Check runout. Replace or straighten shaft.
	Worn gears and bearings.	Replace gears and bearings as necessary.
	Driven shaft not projecting through output bore or bushings.	Reposition reducer on shaft or replace shaft.
	Tapered reducer bushings improperly tightened.	Check instruction manual and tighten per recommended torque values.
	Improper connection to driver and driven equipment.	Check belt tension and V-belt sheave alignment. Check coupling alignment. Check all fasteners and setscrews; tighten properly. Inspect driven shaft key positioning.
	Worn or cracked V-belts.	Replace with new belts.
Overheating reducers	Driven equipment noise.	Check for source, reducer may amplify existing noise.
	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 deg F. 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

Engineering and technical

Troubleshooting guide for Torque-Arm 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 for other applications.

Replacement interchange – TXT series equivalents

Four generations of Dodge Torque-Arm reducers											
AGMA Case size	Ratio										
	5:1		9:1	15:1					25:1		
–	#10	#10	–	–	–	TD015	–	–	TD025	–	–
107	#11	T11	TXT105	TXT109	#1	TD115	TDT115	TXT115	TD125	TDT125	TXT125
115	#12	T12	TXT205	TXT209	#2	TD215	TDT215	TXT215	TD225	TDT225	TXT225
203	#13	T13	TXT305	TXT309	#3	TD315	TDT315	TXT315	TD325	TDT325	TXT325
207	#14	T14	TXT405	TXT409	#4	TD415	TDT415	TXT415	TD425	TDT425	TXT425
215	#15	T15	TXT505	TXT509	#5	TD515	TDT515	TXT515	TD525	TDT525	TXT525
307	#16	T16	TXT605	TXT609	#6	TD615	TDT615	TXT615	TD625	TDT625	TXT625
315	#17	T17	TXT705	TXT709	#7	TD715	TDT715	TXT715	TD725	TDT725	TXT725
407	#18	T18	TXT805	–	#8	TD815	TDT815	TXT815	TD825	TDT825	TXT825
415	#19	T19	TXT905	–	#9	TD915	TDT915	TXT915	TD926	TDT926	TXT926
507	–	–	–	–	–	TD1015	TDT1015	TXT1015	TD1024	TDT1024	TXT1024
–	–	–	–	–	–	–	TDT1115	–	TD1125	TDT1125	–
608	–	–	–	–	–	–	TDT1215	TXT1215	TD1225	TDT1225	TXT1225
700	–	–	–	–	–	–	–	–	TD1325	TDT1325	TDT1325
800	–	–	–	–	–	–	–	–	TD1425	TDT1425	TDT1425
1000	–	–	–	–	–	–	–	–	–	TDT1530	TDT1530

Notes:

- (1) The “#” series and TD Dodge Torque-Arm reducers were manufactured with straight bore mountings only. The TDT and current TXT Dodge Torque-Arm reducers were/are manufactured with both straight bore and twin tapered bore bushings.
- (2) With the increased Hp ratings of the TXT reducer, it may be possible to downsize to a smaller gearbox when replacing an old-style Dodge Torque-Arm reducer. Be sure to review the application.

Backstop interchange

Engineering and technical

	Part number	Current TXT series housing redesign 2005	TXT series bearing redesign 1991	TXT series intro 1985	TD series	Number series
Reference Guide	241101	–	–	–	TDT115	TD115
		–	–	–	TDT125	TD125
	242101	TXT109A TXT115A TXT125A	–	TXT105 TDT109 TDT115 TDT125	T11 TDT215 TDT225	No. 2 No. 3 No. 11
	243101	–	–	–	TDT315 TDT325	TD315 TD325
Motorized Torque-Arm II	243102	Use Part Number 244106				
	243106	TXT309B TXT315B TXT325B	TXT309A TXT315A TXT325A	–	–	–
	244092	–	–	–	TDT415 TDT425	TD415 TD425
	244101	–	–	–	–	No. 4 No. 5
Torque-Arm II	244106	TXT409B TXT415B TXT425B	TXT409A TXT415A TXT425A	TXT309 TXT315 TXT325	–	–
	244148	–	TXT405A	TXT405 TXT409 TXT415 TXT425	–	–
	245101	–	–	–	TDT515 TDT525	TD515 TD525
	245154	TXT509C TXT515C TXT525C	TXT509B TXT515B TXT525B	TXT509A, TXT509 TXT515A, TXT515 TXT525A, TXT525	–	–
Torque-Arm	246092	TXT609A TXT615A TXT625A	TXT605 TXT609 TXT615 TXT625	–	T16 TDT615 TDT625	TD615A, TD615 TD625A, TD625
	246101	–	TXT505A	TXT505	T15	–
	247092	Use Part Number 247260				
	247101	–	–	–	–	No. 7A
Bulk Material Handling	247260	TXT709A TXT715A TXT725A	TXT705 TXT709 TXT715 TXT725	–	T17 TDT715 TDT725	TD715A, TD715 TD725A, TD725
	248101	Use Part Number 249260				
	249260	TXT 815A TXT 825A TXT 915A TXT 926A	TXT815 TXT825 TXT915 TXT926	–	TDT815 TDT825 TDT915 TDT926	TD815A, TD815 TD825A, TD825 TD915 TD926
	250101	–	–	–	TDT1115 TDT1125	TD1115 TD1125

Backstop Interchange

Engineering and technical

Part number	Current TXT series housing redesign 2005	TXT series bearing redesign 1991	TXT series intro 1985	TDT series	TD series	Number series
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	–	–

Reference Guide

Motorized Torque-Arm II

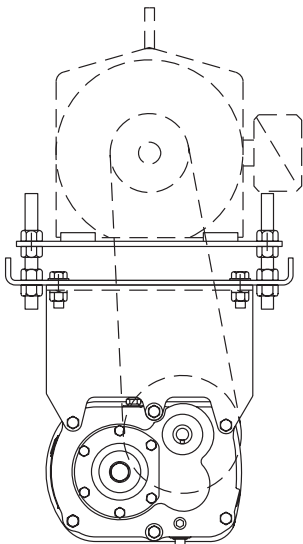
Torque-Arm II

Torque-Arm

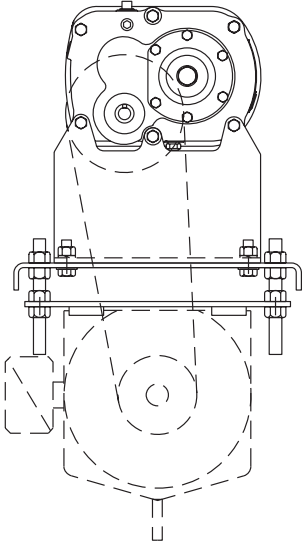
Bulk Material Handling

Screw conveyor drive mounting positions based on screw diameter

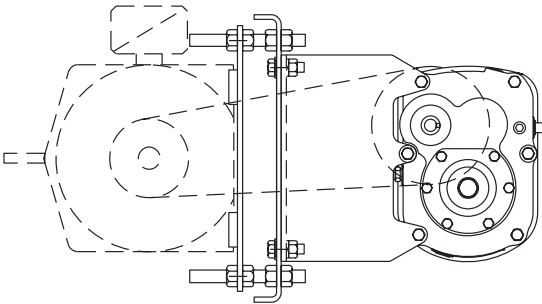
Engineering and technical



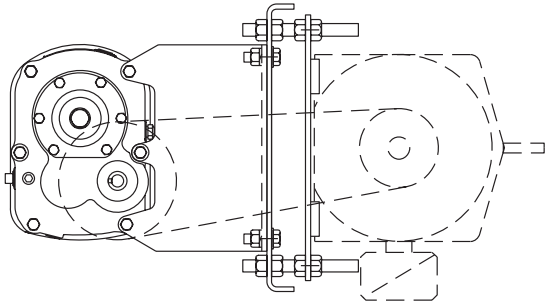
Top position



Bottom position



Left side position



Right side position

Reducer size	Motor mount no. ~	For use on troughs with screw diameters of:	
		Top, right and left side portions	Bottom position
SCXT1A	M112	6, 9, 12"	6, 9"
SCXT2A	M214	6, 9, 12, 14"	6, 9, 12"
SCXT3B	M316	6, 9, 12, 14, 16"	6, 9, 12, 14"
SCXT4B, SCXT5C	M418, M518	9, 12, 14, 16, 18"	9, 12, 14, 16"
SCXT6A, SCXT7A	M620, M720	12, 14, 16, 18, 20"	12, 14, 16, 18"

~ Long series motor mount to fit troughs with screws up through 24" diameter are available from stock. See pages G3-83 through G3-86.

Notes

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Bulk Material Handling

G4-1	Bulk Material Handling
G4-2	Conveyor design partner
G4-3	Lifecycle partner
G4-4	Features and Benefits
G4-6	Customized conveyor package solutions

Conveyor design partner

Bulk material handling team

Reference Guide

The Dodge bulk material handling team utilizes an expansive portfolio of Dodge mechanical and Baldor-Reliance® electrical products, Passport 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.

Motorized Torque-Arm II

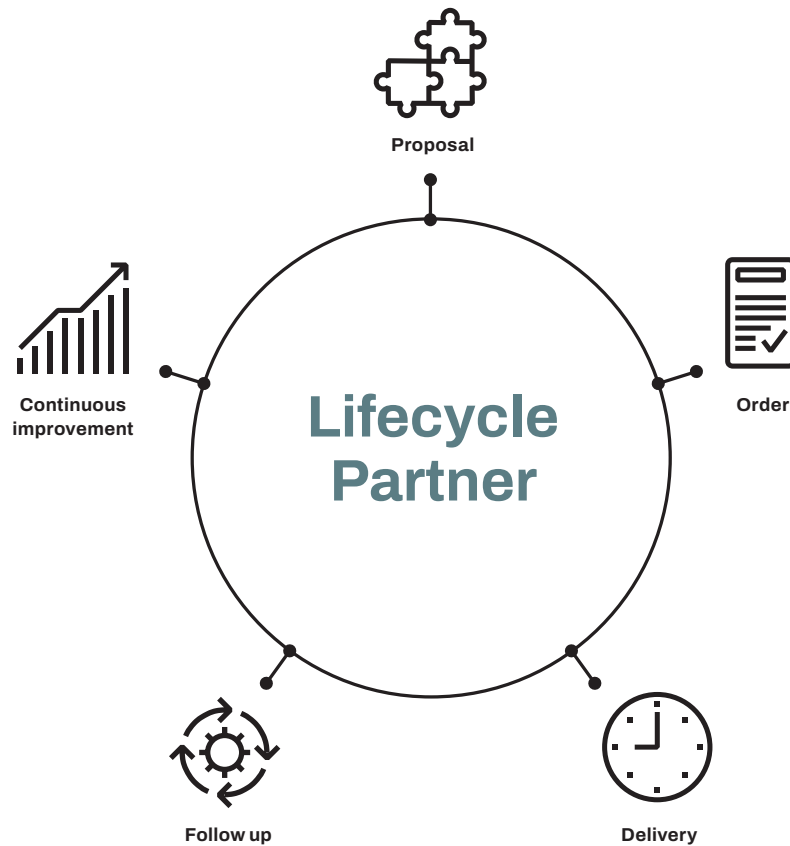
Torque-Arm II

Torque-Arm

Bulk Material Handling

Lifecycle partner

Bulk material handling team



Proposal

- One supplier for engineering and design
- Passport provides online selection and pricing for individual components and complete conveyor designs
- Empowers customers and shortens the learning curve
- Provides power matched components

Order

- Single point of contact for entire package
- Passport provides order entry for individual components or complete packaged assemblies
- Manufactured at plants in the USA
- Product and assembly quality assurance
- Project management

Delivery

- Extended warranty for complete packages
- Packaged assemblies available from stock
- Reduced user safety concerns with factory assembled packages
- Field service startup, training, and benchmarking

Follow up

- Local Field Sales Engineer onsite support
- Field service ongoing site visits and trend monitoring

Continuous improvement

- Field Sales Engineer onsite training, troubleshooting and introduction of new products
- Reduced user safety concerns with new designs and accessories
- Documented savings through Docu\$aves

Features and Benefits

Bulk material handling team

Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling



When do I use the bulk material handling team?

A bulk material handling team request for quote typically consists of multiple products that are combined to make up a complete assembly.

Examples are:

- Dodge Torque-Arm gear reducer, v-belt drive, Baldor, WEG, or Toshiba motors, pulleys, shafts, and bearings
- Creep drive/turning gear sets
- Dodge Magnagear packages for large Hp applications (up to 5,000 Hp)
- Dodge Quantis reducers, Baldor, WEG, or Toshiba motors, Dodge couplings, and variable frequency drives

The bulk material handling team can also incorporate products other than Baldor-Reliance, such as external backstops and over-running clutches.

Why should I use the bulk material handling team?

- 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
- 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 bulk material handling team?

Bulk material handling team phone number:

864-284-5767

Fax:

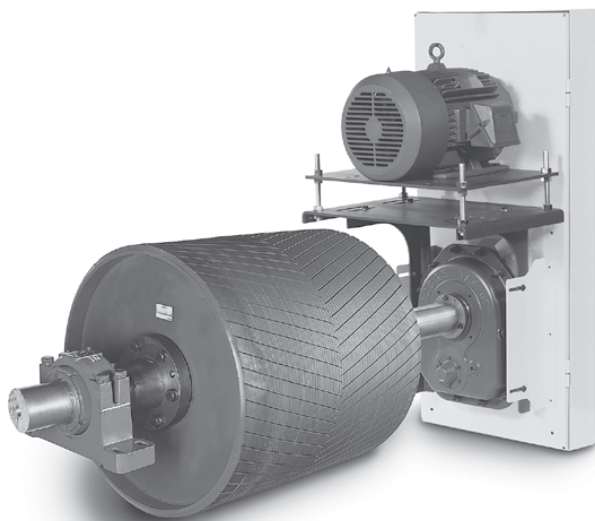
864-281-2355

Email:

us-bulkmaterialhandling@dodgeindustrial.com

Features and benefits

Bulk material handling team



One system. One source. One solution.

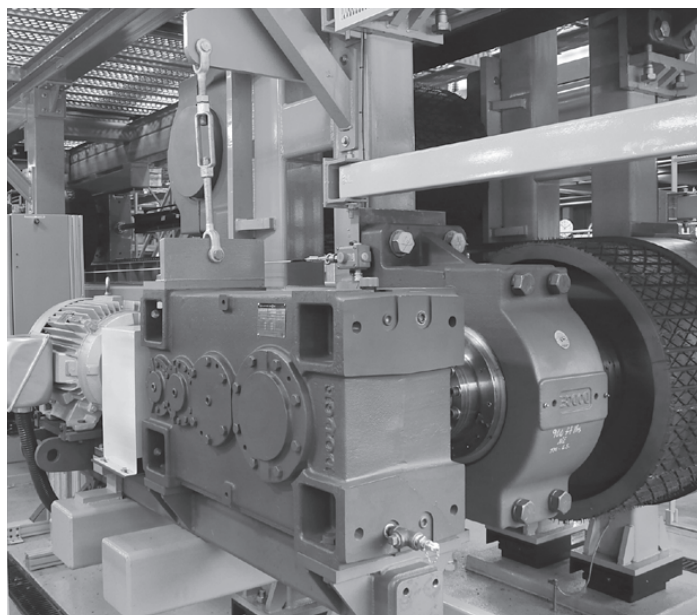
For over 20 years, the bulk material handling team has offered an integrated single source for all your mechanical and electrical power transmission needs featuring Dodge mechanical products and tier 1 motor brands. The bulk material handling team can optimize your equipment performance and reliability, reduce overall costs, assist in coordinating multi-product projects, and ultimately improve your company's profitability.

The bulk material handling team includes engineering and product marketing specialists, in addition to Dodge's full complement of resources for product engineering and selection programs. The bulk material handling team also work directly with Dodge's Industry Solutions team to provide industry specific 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 bulk material handling 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 bulk material handling team for your next package opportunity and find out why we are the industry's proven single source provider for innovative drive system solutions.

What is the bulk material handling team?

The bulk material handling team is a product marketing group that facilitates the design, quotation, and order processing of multiple power transmission, electrical products and services into a complete package solution.



Reference Guide

Motorized Torque-Arm II

Torque-Arm II

Torque-Arm

Bulk Material Handling

Customized conveyor package solutions

Use this quick fax form to receive your customized solution quotation.

To: Bulk Material Handling Team

Fax: (864) 281-2355

Re: Customized Quotation

E-Mail address: us-bulkmaterialhandling@dodgeindustrial.com

From _____
Company / Cust. #: _____
City, State: _____
Phone: _____
Fax _____

Desired system capacity (TPH)

Material type

Estimated material density

Desired belt width

Desired belt speed

Length of conveyor

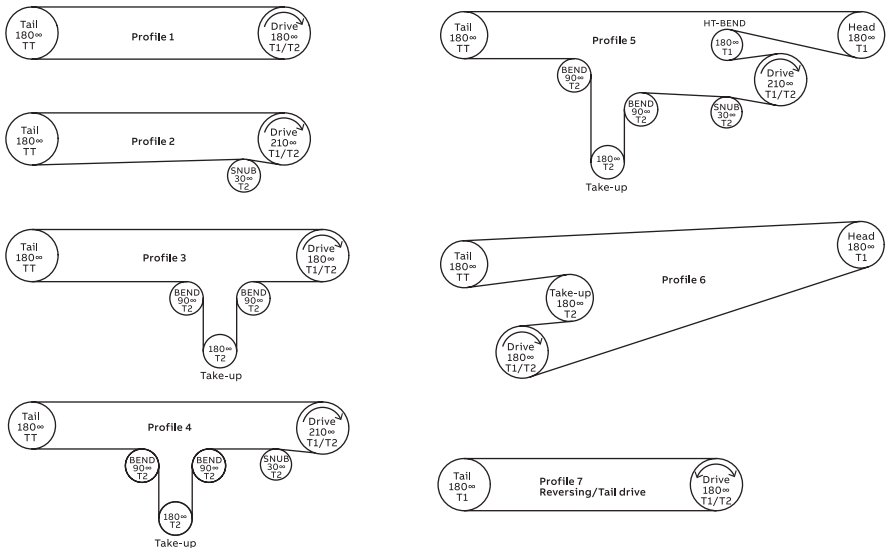
Change in elevation (lift)

Number of belt scrapers/plows

Idler angle

Bearing center distance

Desired conveyor profile (Please circle your selection.)



Additional comments

Motor type:	Baldor Severe duty	Baldor 841 - XL	Toshiba SD
	Baldor Crusher duty	WEG WZZ	
	Baldor Premium efficiency Super-E®	Toshiba QD	
Reducer type:	Quantis	Motorized Torque-Arm II (MTA II)	MagnaGear
	Torque-Arm (TXT)	Maxum	Tigear 2
	Torque-Arm II (TA II)		
Bearing type:	SCM Ball bearing	Imperial	USAF
	Type-E	TAF	Split-Sphere
	S-2000	Type EXL	ISAF
Conveyor pulley type:	CEMA drum	1/2" Diamond lagging	CEMA wing
	Mine duty extra drum	1/2" Horizontal lagging	Mine duty wing
	1/2" Herringbone lagging	Ceramic lagging	Wing lagging
	1/2" Plain lagging	Chevron lagging	



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