

Related products

Torque-Arm shaft mount speed reducers

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

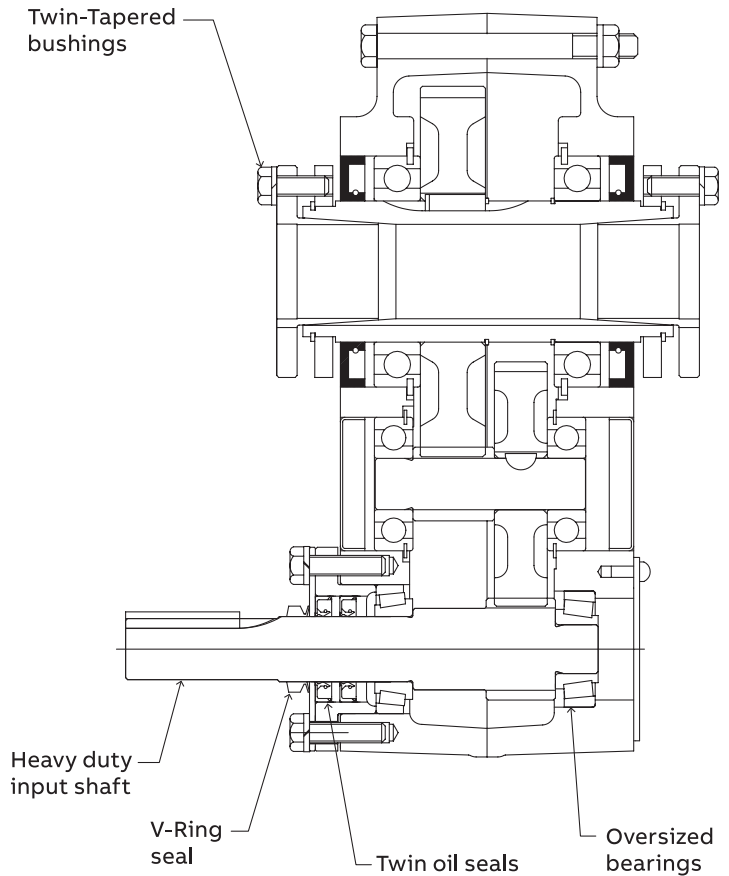
Performance

- 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



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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.

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

- + 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

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.

Taper Bushing Assemblies

Stock bore	Reducer	Size	Part number
1-7/16(Max.)			241292
1-3/8			241294
1-5/16 ▲			241290
1-1/4 ▲	TXT1 ABHS	TDT1	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			242164
1-5/8 ▲			242162
1-1/2 ▲	TXT2 ABHS	TDT2	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			243274
1-15/16			243272
1-7/8 ▲			243270
1-3/4 ▲	TXT3 ABHS	TDT3	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.)			244115
2-1/4 ▲			244113
2-3/16 ▲			244111
2-1/8 ▲			244109
2 ▲	TXT4 ABHS	TDT4	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.)			245112
2-11/16			245110
2-7/16 ▲	TXT5 ABHS	TDT5	245094
2-1/4 ▲			245092
2-3/16 ▲			245090
2 ▲			245088
1-15/16 ▲			245086

▲ Check driven shaft and key for strength.