



MECHANICAL POWER TRANSMISSION

Torque-Arm II

Shaft mount gear reducer



Dodge® Torque-Arm II

Shaft mount gear reducers

Dodge 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, Torque-Arm II reducers provide maximum reliability with less maintenance to increase operating time and lower your total cost of ownership.

Why Torque-Arm II?

Easy to use

- Flexible mounting to minimize inventory including: shaft mount, flange mount and screw conveyor drives
- Features twin tapered bushing system that makes installation and removal quick and easy

Reduce maintenance and increase uptime

- Industry leading sealing technology ensures maximum protection against contaminants extending the reducer life

Availability

- Available in 12 case sizes up to 400 Hp (300 kW)
- Torque ratings through 500,000 lb.-in. (56,500 Nm)
- Accommodates shaft sizes up to 7 inch (160 mm)
- Warranty is 36 months from date of manufacture or 18 months in service



Reliability and safety

Decades of experience applying mechanical products throughout a wide range of industries means we understand the challenges that impact productivity. Safety is always a top priority, that is why the Torque-Arm II was designed with features and accessories that protect workers from installation through operation.

Protect your employees

- Reducers are drilled and tapped for bushing covers to keep workers safe from rotating equipment
- Belt guards prevent injury during operation
- Backstops prevent reverse rotation when system stops
- Tie rod kit prevents system rotation by providing a safety link between the gear reducer and the structure

ATEX Certified

- Environments that are mildly explosive become safer with use of ATEX certified reducers

Reliable operation

- Built with tapered roller bearings to withstand shock loads, resulting in longer life
- Compatible with synthetic lubricant ensuring longest time between relubrication cycles

01 ATEX certified
All nameplates are
marked for use in some
hazardous locations

DODGE		TORQUE-ARM II SPEED REDUCER		OIL QTY		U.S.	
PART		RATIO		POS. B		QTS	
NUMBER		kg		USA PATENTS		6,530,138	
CLASS 1		lb		5,667,333		6,272,941	
RATING		MAX		5,951,198		6,375,196	
HP AT		INPUT RPM		6,202,507		6,599,052	
				6,253,640		6,527,276	
				SERVICE PER INSTRUCTION MANUAL			
 Temp: -30°C to +50°C IEC 24 / I 2 GD 18 T4 SIRA 04 ATEX 9360 MFG. BY BALDOR ELEC CO/FT SMITH, AR 72901 USA		 WARNING Do not open when an explosive atmosphere may be present					

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Industry leading performance

In tough applications

Harsh duty seals to withstand any environment

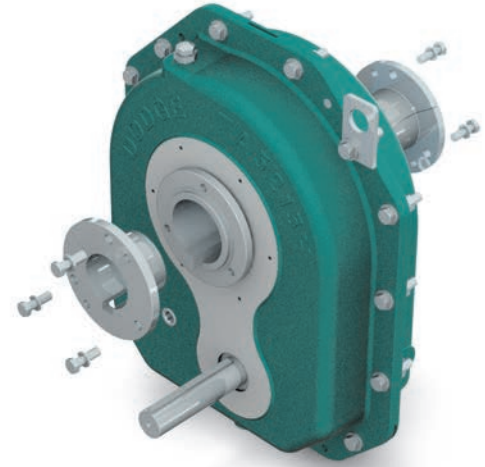
- Dual sealing systems on all shafts consist of metal reinforced oil seals that are protected by an external metal shield and excluder lip
- Oil seals have an operating temperature range of -40°F to 300°F / -40°C to 150°C
- Compatible with both mineral and synthetic lubricants
- Easy to install, optional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



Dodge Torque-Arm II

Shaft mount 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.



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.

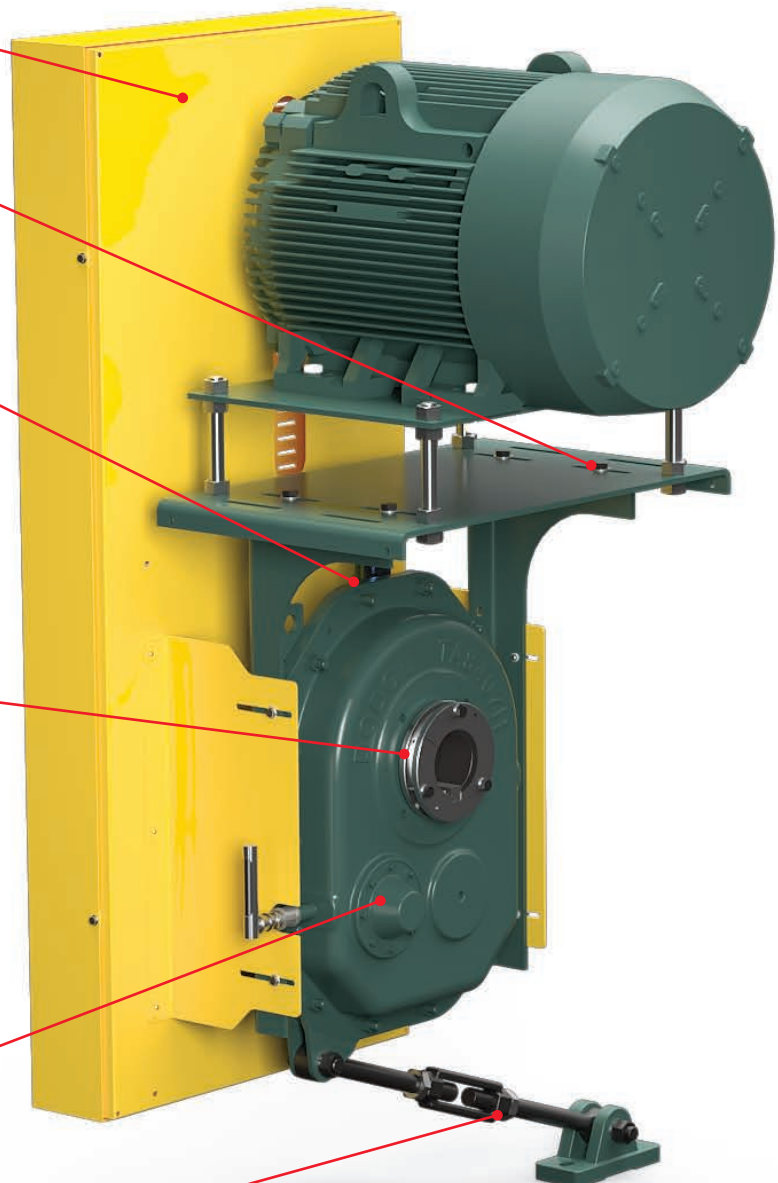


Backstop

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.

Dodge Torque-Arm II

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 breathers check valve system prevents ambient conditions and improves positive maintenance practices.



Adjustable packing kit

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

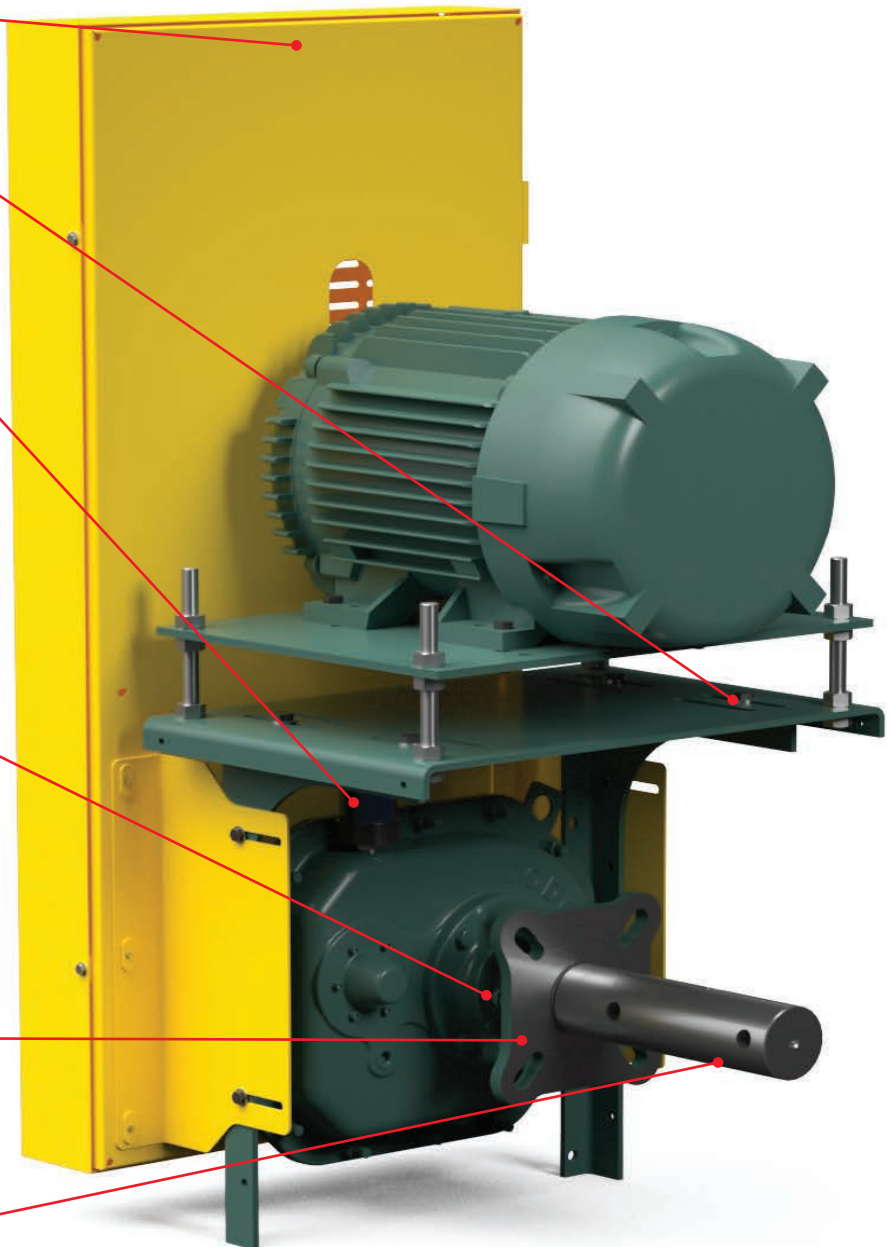


CEMA adapter

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.



PT Wizard

Quick and easy selection of Torque-Arm II gear reducers



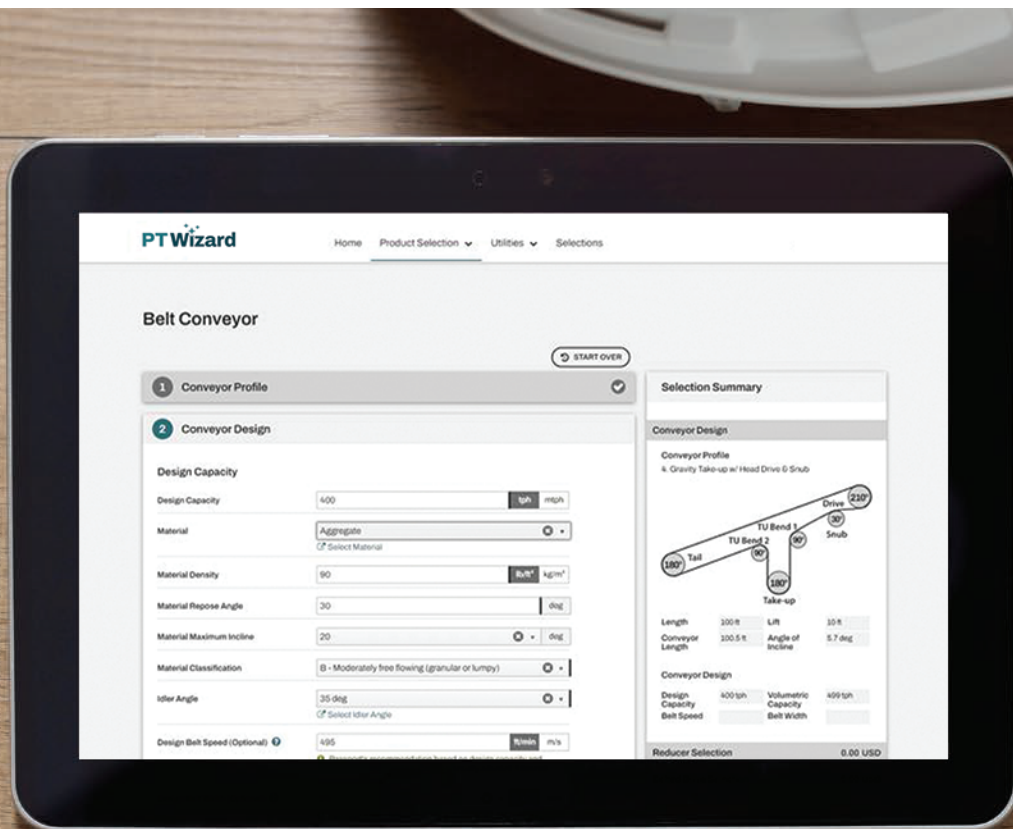
PT Wizard equals ease of doing business.

An easy to use online selection program that utilizes an intuitive process to guide users through selection of Dodge mechanical power transmission products.

PT Wizard significantly improves productivity, and ensures cost-effective and reliable selections through:

- real-time pricing and availability
- performance-matched components
- quote-to-order capabilities

ptwizard.com





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