

Product note

Gearing

Dodge® Motorized Torque-Arm® II



Easy to install and built to last

The Dodge Motorized Torque-Arm II (MTA) is a heavy-duty right angle beltless direct drive solution designed to deliver industry leading performance in some of the most demanding applications.

The MTA features the patented Dodge twin-tapered bushing system that not only makes installation and removal easy, but also provides a sturdy, concentric grip of the driven shaft on both sides of the reducer. This eliminates reducer wobble and fretting corrosion associated with straight bore and single bushed reducers. Available in full length and short shaft systems, both guarantee maximum torque transmission.

Engineered for reliability, the MTA has patented premium sealing systems that provide maximum up-time with less maintenance. This product is also third party ATEX certified and complies 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.

Dodge MTA features:

- Compact space saving design
- Rugged and case carburized helical/bevel gearing
- Heavy-duty tapered roller bearings throughout
- Harsh-duty lip seals for extended wear and -40°C to +150°C (-40°F to +300°F) temperature ranges
- Metal excluder shield sealing system with rubber contact lip
- Standard IEC B5 flange adapter or NEMA C-face motors
- Available in 7 sizes from 1.5 to 75 kW (3 hp to 100 hp)
- Torque range up to 14,700 Nm (130,000 in-lbs)
- Third party ATEX certified
- Drilled and tapped to accept safety end covers



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Twin-tapered bushings for shaft mount MTA:

- Makes it easy to install and remove the reducer
- Provides sturdy, concentric grip on the driven shaft
- Eliminates reducer wobble and fretting corrosion
- Full length key guarantees maximum torque transmission
- No special tools required
- Kit available to replace straight bore or single bushed reducers
- Safety end covers available in either ABS plastic or aluminum



The MTA is available as a motorized screw conveyor drive with adapter and drive shaft.



Backstop and tie rod kit:



- Backstop helps prevent reverse rotation
- Results in less wear and longer life of the reducer
- Design eliminates sprag sliding and reducer wear
- Operates with standard and EP lubricants
- Requires no external lubrication
- Standard brackets for universal mounting options

CEMA bolt-on adapter with optional adjustable packaging kit:



- Features double-lip seals on both surfaces
- Adapter center is open for contaminate drop out
- Adjustable kit bolts to the standard adapter and provides a proven sealing option for hostile environments

CEMA screw conveyor drive shaft:



- Made from high alloy steel
- Standard three-bolt drilled
- Tapered fit ensures simple installation
- Rugged locking plate provides mechanical shaft removal

For more information please contact:

new.abb.com/mechanical-power-transmission



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