



Dodge® Torque-Arm II

Product overview



Dodge Torque-Arm II gear reducer

Build to last in tough heavy-duty applications

Product overview

Since 1949, Dodge Torque-Arm reducers have proven to be highly reliable, heavy-duty products that extend operating life and maximize up time.

- Dodge Torque-Arm II was first developed in 2000
- Applications up to 56,500 Nm (500k in-lb) torque
- Shaft sizes up to 160 mm (7 inch)
- Expanded ratios up to 40:1 reduction
- Conform to ATEX directive 94//9/EC
- 36 month/18 month warranty protection



Dodge Torque-Arm II gear reducer

Most common applications



Belt conveyor



Screw conveyor



Bucket elevator

Dodge Torque-Arm II gear reducer

Critical accessories to maximize uptime

**Gear
reducer**



1

Modular design: One reducer design for shaft mount and screw conveyor applications helps to minimize inventory



Dodge Torque-Arm II gear reducer

Critical accessories to maximize uptime

**Gear
reducer**

1

Modular design: One reducer design for shaft mount and screw conveyor applications helps to minimize inventory

**Twin-
tapered
bushing**

2

Easy-on, easy-off bushing system to maximize mounting stability for highly reliable performance



Dodge Torque-Arm II gear reducer

Critical accessories to maximize uptime

**Gear
reducer**

1

Modular design: One reducer design for shaft mount and screw conveyor applications helps to minimize inventory

**Twin-
tapered
bushing**

2

Easy-on, easy-off bushing system to maximize mounting stability for highly reliable performance

**Motor
mount**

3

Provides consistent alignment and stable center distance between motor and reducer to minimize maintenance of v-belt drive and extend life



Dodge Torque-Arm II gear reducer

Critical accessories to maximize uptime

**Gear
reducer**

1

Modular design: One reducer design for shaft mount and screw conveyor applications helps to minimize inventory

**Twin-
tapered
bushing**

2

Easy-on, easy-off bushing system to maximize mounting stability for highly reliable performance

**Motor
mount**

3

Provides consistent alignment and stable center distance between motor and reducer to minimize maintenance of v-belt drive and extend life

**Connecting
motor to
reducer**

4

Dodge System 1 can provide packaged solutions for customer projects



Dodge Torque-Arm II gear reducer

Heavy-duty sealing systems extend reducer life

Harsh-duty sealing is standard

- Premium harsh-duty oil seals are a patented labyrinth metal shield and excluder lip auxiliary seal. This sealing system allows for maximum protection to keep lubrication in and contaminants out of the gear reducer
- With 40% higher temperature capacity versus competition, all seals are compatible with both mineral and synthetic lubricant removing any lubrication concerns
- Optional v-ring seals available for additional protection in extreme environments
- All gear reducers are **100% inspected** for noise and leaks in the Greenville manufacturing plant



Optional V-Ring seal kit

Dodge Torque-Arm II gear reducer

Extreme pressure (EP) lubricant compatible backstop

Severe duty backstop

Backstops are used to prevent reverse rotation in high stop/start loads. Its centrifugal lift off design eliminates sprag friction during operation and reduces wear to all components

Requiring no external lubrication, this backstop is rated to withstand heavy shock loads in the toughest environments

Customers do not have to worry about lubrication additives – this is the only internal backstop on the market that can handle EP additives in mineral and synthetic oils



Dodge Torque-Arm II gear reducer

Breather options

Standard filter breather



- Provided with every gear reducer
- Taller overall height helps to avoid dust build up around opening
- With a filter, screen, and cap there is adequate protection in average operating conditions

Hydra-Lock breather



- Desiccant material changes color providing visual cues for maintenance to further reducer operating life
- Internal check valve system creates a nearly sealed system
- Filter element captures particles at 3-4 micron absolute providing superior protection

Enclosed chamber breather



- Totally enclosed metal breather eliminates outside air from entering into system
- Internal bladder expands & contracts to stabilize pressure within gear reducer
- Excellent for portable or folding equipment

Dodge Torque-Arm II gear reducer

Two bushing cover designs available – aluminum and ABS

TAI now drilled and tapped for ABS covers

TAI reducers are now drilled and tapped to accommodate mounting bushing covers

These covers will provide a quick, inexpensive assembly to protect employees from rotating equipment

All TAI sizes 0 through 12, can now accept either ABS polymer or aluminum covers



Dodge Torque-Arm II gear reducer

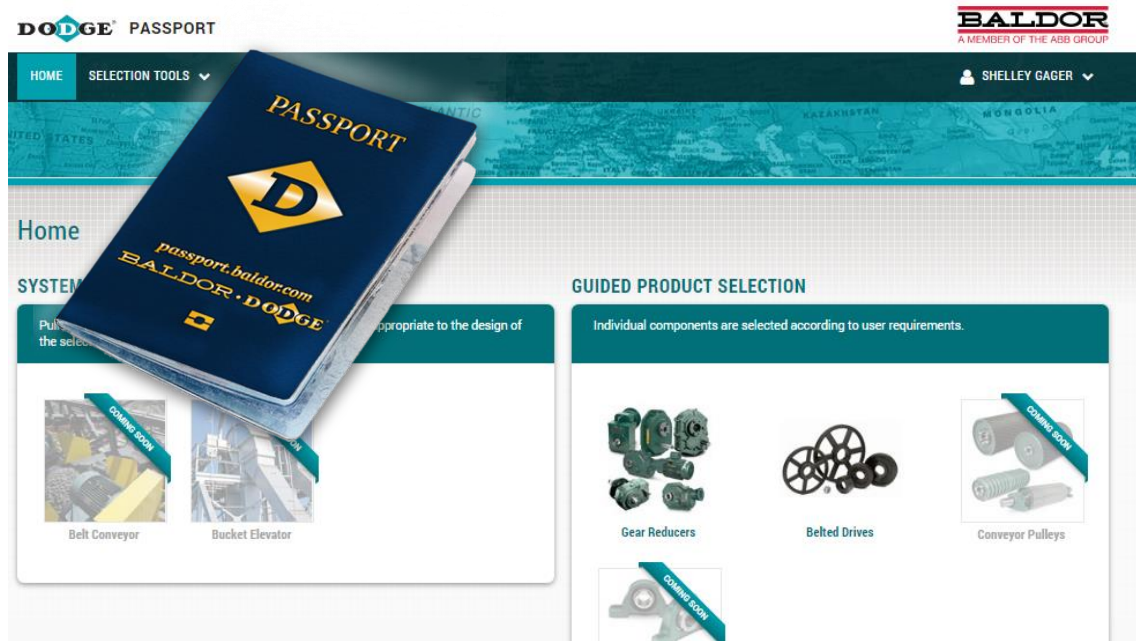
Continue the journey by using Dodge Passport – visit us at passport.baldor.com

Dodge Passport

Dodge Passport is a global online product selection tool designed for both novice and expert users.

Passport provides customers with:

- Step-by-step product selection
- Localized units of measure
- Application based gearing packages
- Order summary with part numbers
- Links to drawings and literature



—

ABB