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 gland adapter.

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.

Typical Industry Applications

<table>
<thead>
<tr>
<th>Food</th>
<th>Agriculture</th>
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<tbody>
<tr>
<td>Grain</td>
<td>Soaps</td>
</tr>
<tr>
<td>Aggregates</td>
<td>Lumber</td>
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<tr>
<td>Chemicals</td>
<td>Stone</td>
</tr>
<tr>
<td>Minerals</td>
<td>Clay</td>
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<tr>
<td>Coal</td>
<td>Glass</td>
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</tbody>
</table>

... and many more

Note: Guards have been removed for photographic purposes.
FEATURES/BENEFITS

TORQUE-ARM Shaft Mount Speed Reducers

DODGE SCREW CONVEYOR DRIVES
Three alternative seals in CEMA Standard Adapter

Double Lip Seals.
They’re pre-lubricated for protection from dust and dirt during installation and are excellent for conveying semi-solids. Metallic parts are partially coated with synthetic rubber for added protection from corrosion.

Braided Felt Seal.
For unusually dusty environments like granaries or fertilizer plants, the braided felt seal offers special protection.

Waste Packing.
This can be inserted in a special cavity in the adapter for added protection while operating under abrasive conditions.

CEMA Adjustable Packing Gland Adapter
The adjustable packing gland adapter can be repacked without removing the adapter from the trough end. This packing gland adapter is mainly used in applications where there is a very abrasive environment, such as cement dust.

The packing gland allows for easy removal and installation of the braided felt seals. As the seals wear, the adjusting studs can be retightened with an open-ended wrench causing the cast iron adjusting flange to compress the seals tighter around the drive shaft and end plate.

Auxiliary Seal Kit
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, output shaft end cap and a filter air breather.

Belt Guard
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.

Motor mounts need no drilling.
Rugged, all-steel DODGE motor mounts bolt directly to the screw conveyor drive reducer. They’re available in fourteen 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.

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. Different diameter drive shafts are interchangeable within each drive, and there’s a wide range of diameters from 1-1/2 to 3-7/16 inches to choose from. Stainless steel and three-hole CEMA drive shafts are available on request.