COMMON DRIVE CONVEYOR SETUP
Up to (4) conveyors can be coupled together and driven from a single gearmotor.

- Conveyors move at same relative belt speed.
- Creates single lanes for handling parts.
- Wide parts or pallets can be carried by each conveyor to allow access from below.
- Conveyors can be of different widths and lengths.

Uses Standard 2200 Series End Drive Conveyors

- Aluminum Extruded Frame with T-slot Construction
- Sealed Ball Bearings
- V-Guided and Non-V-Guided Belt Compatible
- Rack and Pinion Belt Tensioning
- Conveyor Widths: 1.75" to 24" wide
- Conveyor Lengths: End Drive = 2' to 18' long
- Belt Speeds: up to 264 ft/min


Common Drive Specifications

- Drive up to (4) Conveyors from a Single Drive Gearmotor
- Fixed Conveyor Locations
- Load Capacity: Contact Factory for Details
- Compatible with all Standard End Drive Gearmotor Mounting Packages
- Includes Aluminum Extruded Conveyor Tie Bar Assembly with Belt Return Roller
- Includes Common Drive Couplings and Guarding
- Multiple Conveyor Spacing Options

- 2" Belt Edge to Belt Edge
- 3" Belt Edge to Belt Edge
- 4.75" to 24" Belt Edge to Belt Edge
Dimensions & Common Drive Layout

Compatible with all standard mounting packages.
(Side mount shown.)

Belt Edge to Belt Edge Options:
- 2.00 [51]
- 3.00 [76]
- 4.75 [121] to 24.00 [610]

W = Conveyor Belt Width

Maximun:
- 48.00 [1219]
- 18.00 [457]
- 24.00 [610]

W + 1.50 [38]

T-Slots for M6 or 1/4-20 T-Nuts

2.06 [52]

0.41 [10]

1.87 [48]

1.17 [30]

2.69 [68]
Profiles:

- All 2200 Series profiles are applicable.

Belting:

- All 2200 Series belting is applicable.
- Finger Splice is preferred, plastic and metal clipper splices are available.

Mounting Packages & Gearmotors:

- All 2200 Series mounting packages and gearmotors are applicable.

Support Stands:

- All 2200 Series support stands are applicable.
EXPRESS INQUIRY FORM: GENERAL INFORMATION

Along with completing the Express Inquiry form below, please complete the specific 2200 Series Common Drive Conveyor application questions on the next page to the best of your ability.

Contact Technical Sales at 1-800-259-1510 (Press 3) or TechnicalSales@dorner.com for Application Assistance.

CONTACT INFORMATION

Company: ____________________________________________________________  Date: __________________
Name: _________________________________________________________________________________________
Phone: __________________________ Fax: ________________________  E-Mail: _________________________
Address: _______________________________________________________________________________________
City: ______________________________________  State: ____________  Zip: ___________________________

PRODUCT

Description/Material: ______________________________________________________________________________
Dimensions: _____________________________________________________________________________________
Weight: ____________________________________  Total Weight to be Placed on Conveyor: ____________________
Temperature: ________________________________  Leading Edge Dimension: ____________________________

ENVIRONMENT

Chemicals or Fluids Present: ________________________________________________________________________
Unusual Ambient Temperature Conditions: ______________________________________________________________
Other Concerns: __________________________________________________________________________________

GEARMOTOR & MOUNT PACKAGE

Mount Position:  □ Top  □ Bottom  □ Side  □ Parallel Shaft  □ 90°
Belt Speed: ______________________________  □ Fixed  □ Variable  See example on next page for calculating belt speed.
Belt Direction & Motor Position: ________________________________________________________________

ELECTRICAL

Voltage: ____________________________________  Phase: __________________
Hz: _______________________________________  For Variable Speed: □ DC  □ AC
Controls Required: ________________________________

Complete individual conveyor specifications on page 6.
EXPRESS INQUIRY FORM: GENERAL INFORMATION

Page may need to be copied to communicate multiple conveyors

DESCRIBE THE COMMON DRIVE CONVEYOR APPLICATION

Describe the product being conveyed: _________________________________________________________________
______________________________________________________________________________________________
What do you want the conveyors to do? ______________________________________________________________
______________________________________________________________________________________________
______________________________________________________________________________________________
How is the part being introduced onto conveyor? _________________________________________________________
______________________________________________________________________________________________
What is the product feed rate? (parts per minute) ________________________________________________________
Is part orientation critical? □ Yes □ No Explain: ______________________________________________________
Where does the part go upon discharging from the conveyor? _______________________________________________
______________________________________________________________________________________________

PRODUCT SAMPLES

Samples of actual products can be critical to the successful design and application of a common drive conveyor.
Will sample products be provided to Dorner? □ Yes □ No

FAX COMPLETED FORMS TO 800.369.2440 or 262.367.5827

BELT SPEED CALCULATOR

How to calculate minimum conveyor belt speed:

\[
\text{(Part rate in parts per minute) x (part size in inches) / 12}
\]

Example\(\frac{(30 \text{ parts per minute}) \times (6'' \text{ dia. part})}{12} = \frac{180}{12} = 15 \text{ ft/min. Minimum Belt Speed}\)

How to calculate conveyor belt speed incorporating a product spacing:

\[
\text{(Part rate in parts per minute) x (desired part spacing in inches + part size in inches) / 12}
\]

Example\(\frac{(30 \text{ parts per minute}) \times (6'' \text{ dia part + 12'' spacing between parts})}{12} = \frac{(30 \times (18))}{12} = \frac{540}{12} = 45 \text{ ft/min. Belt Speed}\)
Please highlight the conveyor, dimensions, belt flow and motor positions required.

Complete the Conveyor Information

<table>
<thead>
<tr>
<th>Conveyor</th>
<th>Width (W)</th>
<th>Length (L)</th>
<th>Belt Type*</th>
<th>Profile*</th>
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<tbody>
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*See Product Engineering Manual or www.dorner.com for details.

Note: Conveyors over 7’ (2134mm) require additional tie-together brackets.