



Common Drive Conveyors

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 3200 Series Conveyors

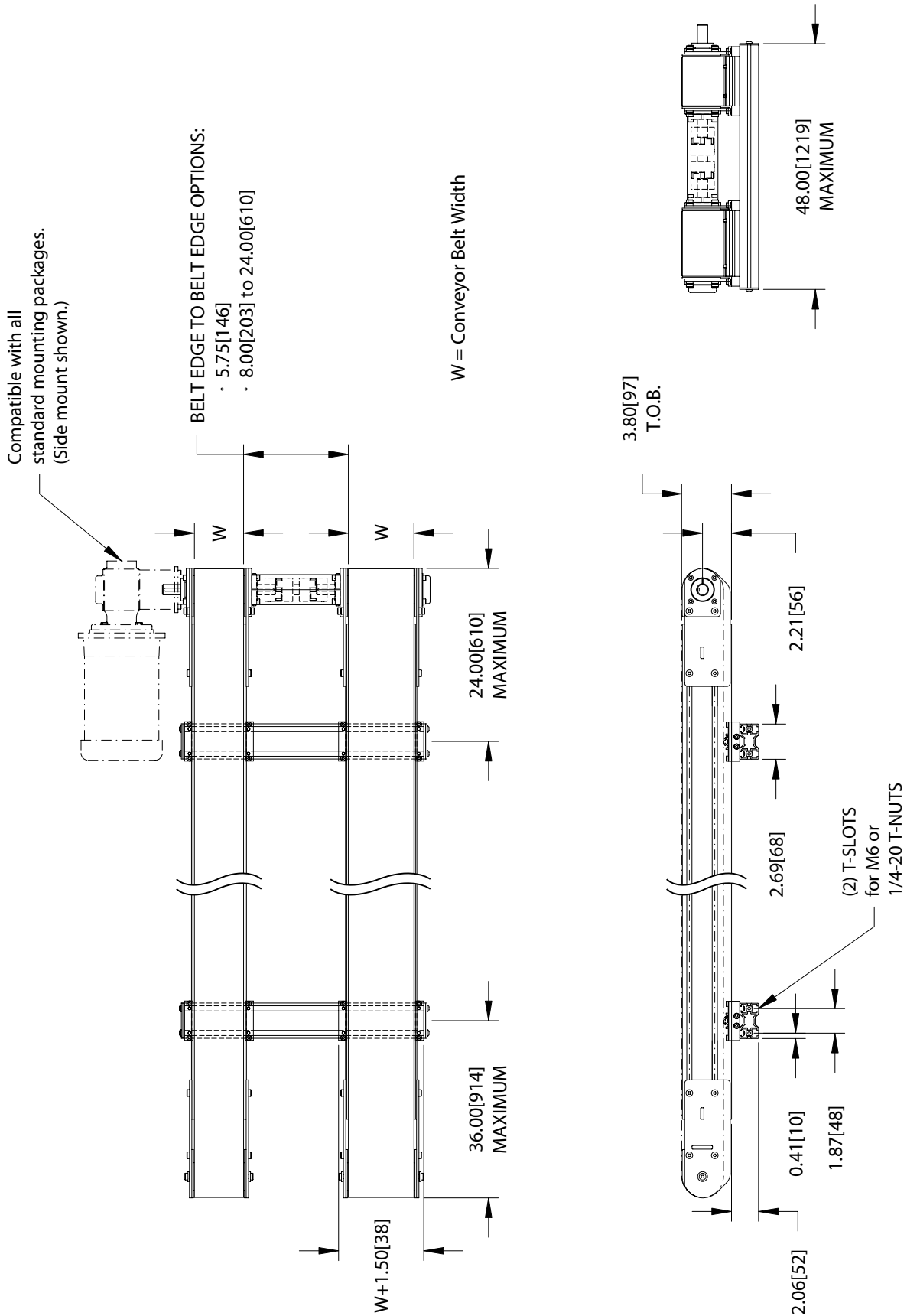
- Aluminum extruded frame with T-slot construction
- Sealed Ball Bearings
- V-guided and Non-V-guided belt compatible
- Rack and Pinion belt tensioning
- Conveyor Widths: 3.75" to 48" wide
- Conveyor Lengths: End Drive = 3' to 40' long
- 3" diameter drive pulley turns approximately 9.7" of belt per revolution
- Belt Speeds: up to 421 Ft/Min

Reference Full Specification Catalog Pg 78 for Conveyor Details

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
 - 5.75" Belt Edge to Belt Edge
 - 8" to 24" Belt Edge to Belt Edge

Dimensions & Common Drive Layout



Profiles:

- All 3200 Series profiles are applicable.
- See Full Specifications Catalog Pg. 96 for details.

Belting:

- All 3200 Series Belting is applicable.
- Finger Splice is preferred, plastic and metal clipper splice is available.
- See Full Specifications Catalog Pg. 97 for details.

Mounting Packages & Gearmotors:

- All 3200 series Mounting Packages and Gearmotors are applicable.
- See Full Specifications Catalog Pg. 101 & 106 for details.

Support Stands:

- All 3200 Series Support Stands are applicable.
- See Full Specifications Catalog Pg. 117 for details.

EXPRESS INQUIRY FORM : GENERAL INFORMATION

Along with completing the Express Inquiry form below, please complete the specific 3200 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 _____		

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:	<input type="checkbox"/> Top <input type="checkbox"/> Botom <input type="checkbox"/> Side <input type="checkbox"/> Parallel Shaft <input type="checkbox"/> 90°
Belt speed:	_____ <input type="checkbox"/> Fixed <input type="checkbox"/> Variable <i>See example on next page for calculating belt speed.</i>
Belt Direction & Motor Position: _____	

ELECTRICAL	
Voltage: _____	Phase: _____
Hz: _____	For variable speed: <input type="checkbox"/> DC <input type="checkbox"/> AC
Controls required: _____	

Complete individual conveyor specifications on page 6

EXPRESS INQUIRY FORM : COMMON DRIVE 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? No Yes 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? No Yes

FAX COMPLETED FORMS TO 800.369.2440 or 262.367.5827

Belt Speed Calculator

How to calculate minimum conveyor belt speed:

$$\frac{(\text{Part rate in parts per minute}) \times (\text{part size in inches})}{12}$$

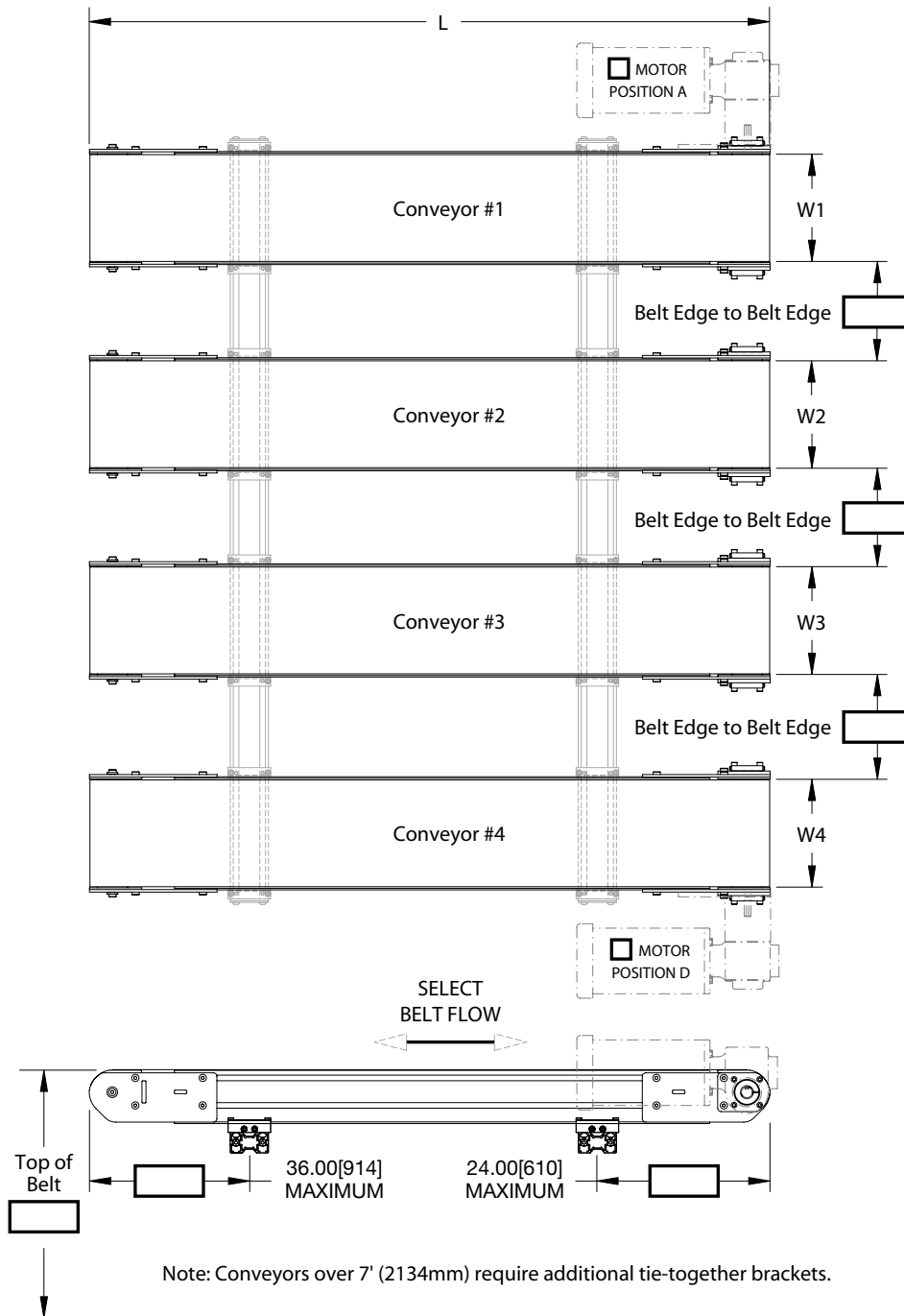
Example: $\frac{(30 \text{ parts per minute}) \times (6" \text{ dia. part})}{12} = \frac{180}{12} = 15 \text{ ft/min. Minimum Belt Speed}$

How to calculate conveyor belt speed incorporating a product spacing:

$$\frac{(\text{Part rate in parts per minute}) \times (\text{desired part spacing in inches} + \text{part size in inches})}{12}$$

Example: $\frac{(30 \text{ parts per minute}) \times (6" \text{ dia part} + 12" \text{ spacing between parts})}{12} = \frac{(30) \times (18)}{12} = \frac{540}{12} = 45 \text{ ft/min. Belt Speed}$

Please highlight the conveyors, dimensions, belt flow and motor positions required.



Belt Edge to Belt Edge Options:

- 5.75" (146)
- 8" to 24" (203-610)

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

Complete the Conveyor Information				
Conveyor	Width (W)	Length (L)	Belt Type*	Profile**
#1				
#2				
#3				
#4				

*See Full Specifications Catalog pg. 97 for belt details.

**See Full Specifications Catalog pg. 96 for profile details.