

975 Cottonwood Ave., PO Box 20, Hartland, Wisconsin 53029-0020, USA | www.dorner.com | info@dorner.com

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 3200 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: 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

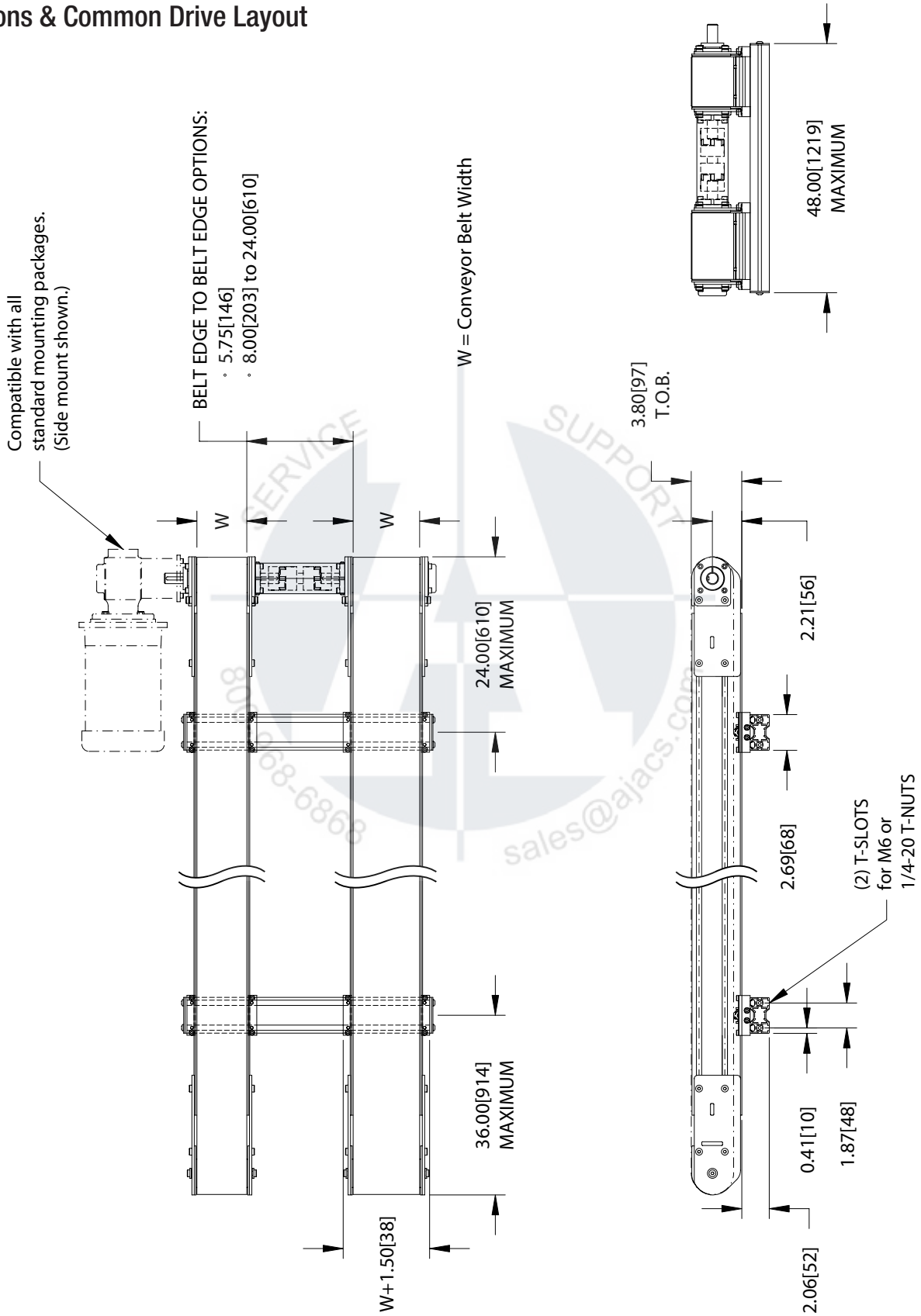
See Product Engineering Manual or www.dorner.com for details.

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 *Product Engineering Manual* or www.dorner.com for details.

Belting:

- All 3200 Series belting is applicable.
- Finger Splice is preferred, plastic and metal clipper splices are available.
- See *Product Engineering Manual* or www.dorner.com for details.

Mounting Packages & Gearmotors:

- All 3200 Series mounting packages and gearmotors are applicable.
- See *Product Engineering Manual* or www.dorner.com for details.

Support Stands:

- All 3200 Series support stands are applicable.
- See *Product Engineering Manual* or www.dorner.com 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:	_____		
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: <input type="checkbox"/> Top <input type="checkbox"/> Bottom <input type="checkbox"/> Side	<input type="checkbox"/> Parallel Shaft <input type="checkbox"/> 90°
Belt Speed: _____	<input type="checkbox"/> Fixed <input type="checkbox"/> Variable See example on next page for calculating belt speed.
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: 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:

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

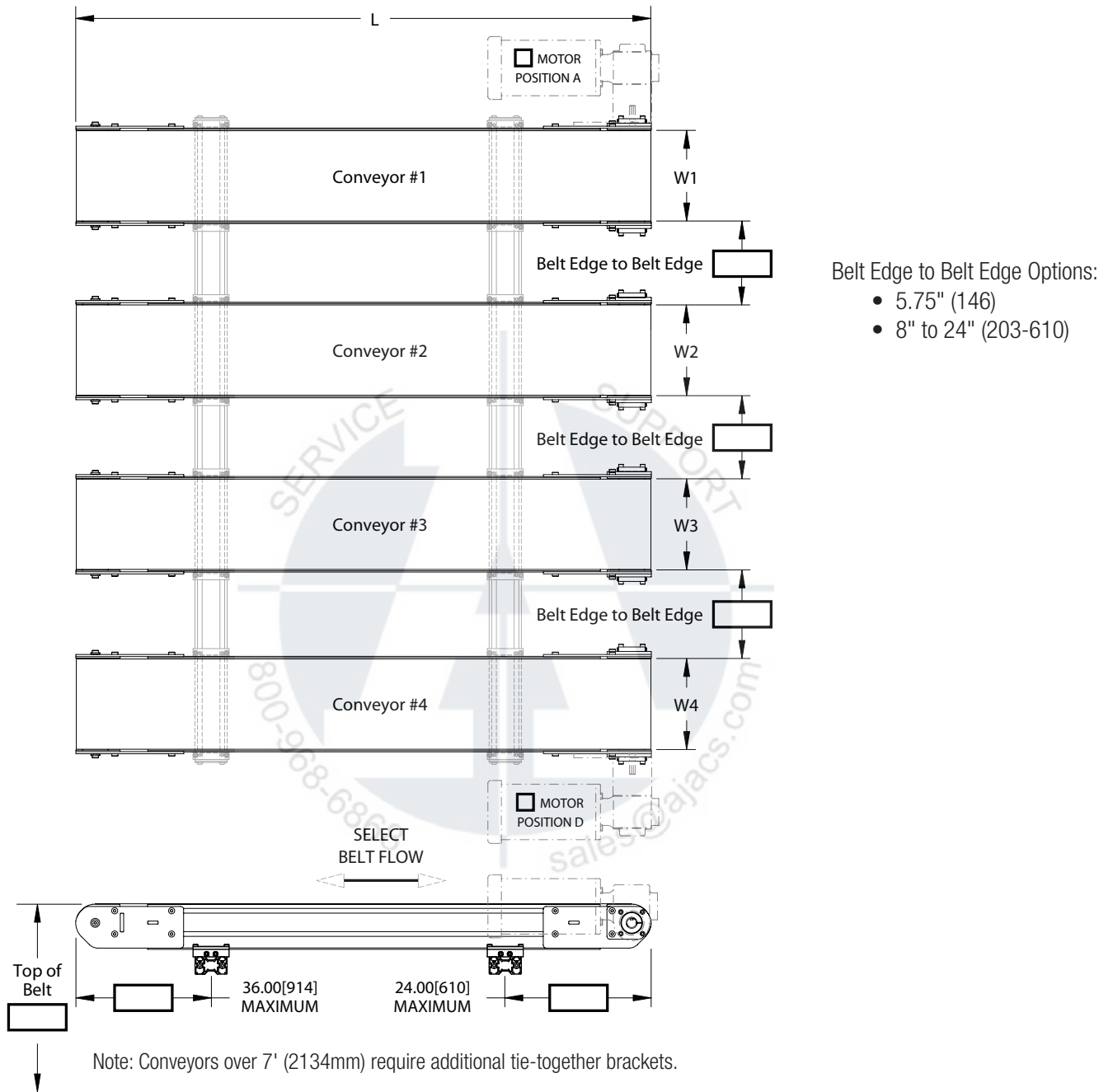
Example $\frac{(30 \text{ parts per minute}) \times (6" \text{ dia. part})}{12} = \frac{180}{12} = 15 \text{ ft/min. Minimum Belt Speed}$

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 conveyor, dimensions, belt flow and motor positions required.



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

*See Product Engineering Manual or www.dorner.com for details.