3200 SERIES COMMON DRIVE PACKAGE

Special Capabilities Specification Sheet

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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

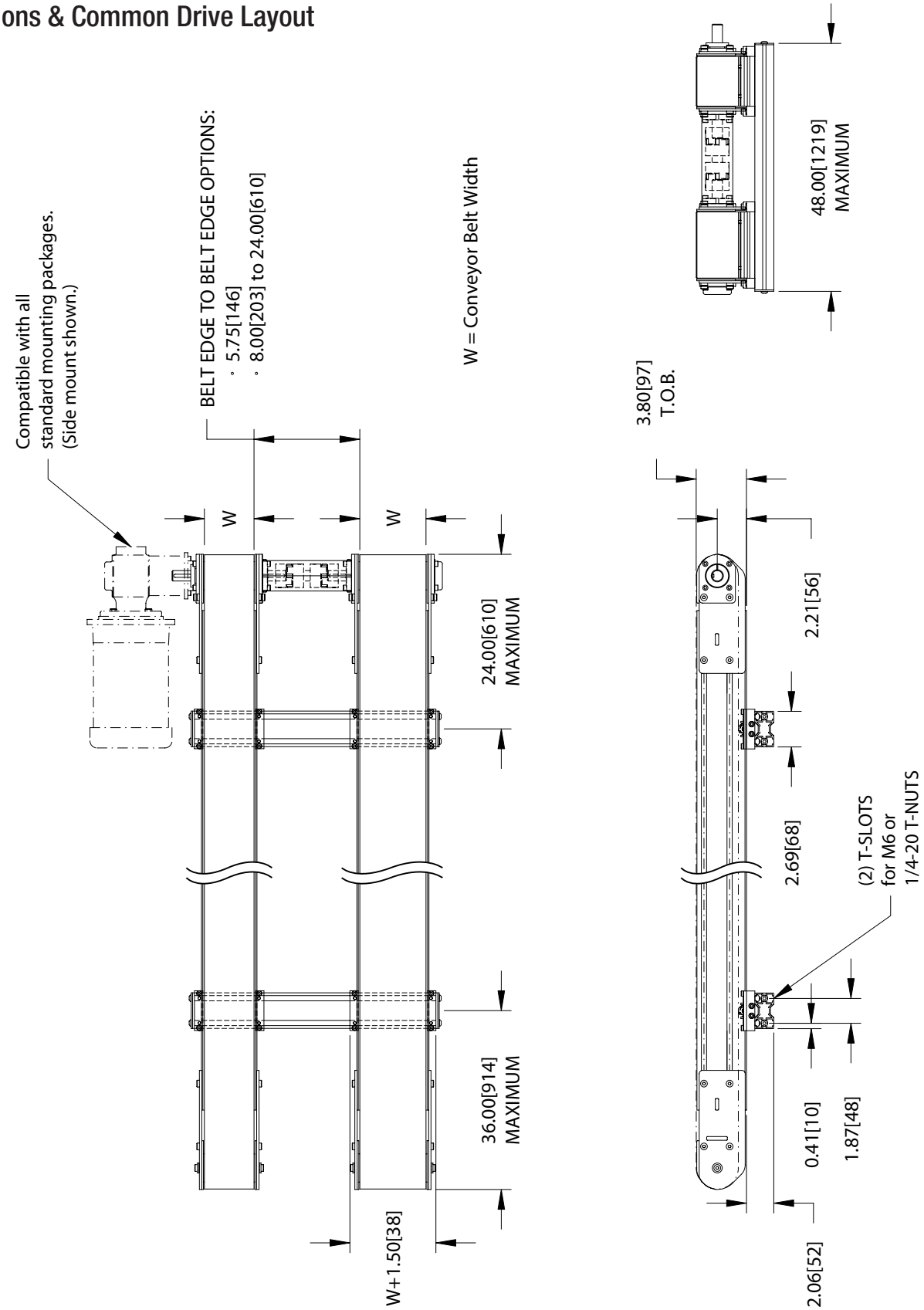
See Product Engineering Manual or www.dorner.com for details.

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

 | Part Number 851-777 | Rev B.

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: ☐ 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:

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

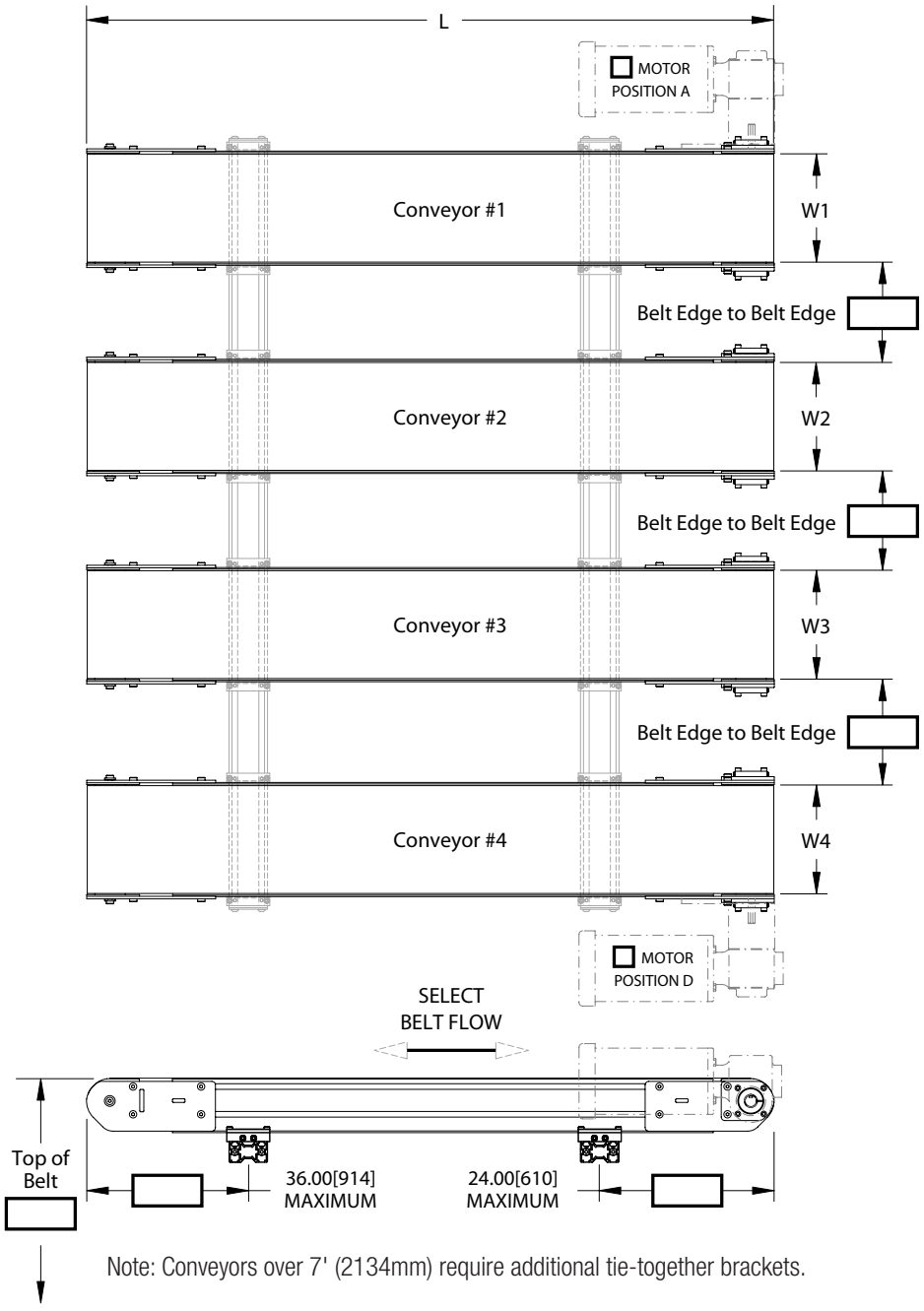
Example $\frac{\text{(30 parts per minute) x (6" dia. part)}}{12} = \frac{180}{12} =$ 15 ft/min. Minimum Belt Speed

How to calculate conveyor belt speed incorporating a product spacing:

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

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

Please highlight the conveyor, 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 Product Engineering Manual or www.dorner.com for details.*

