

### 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

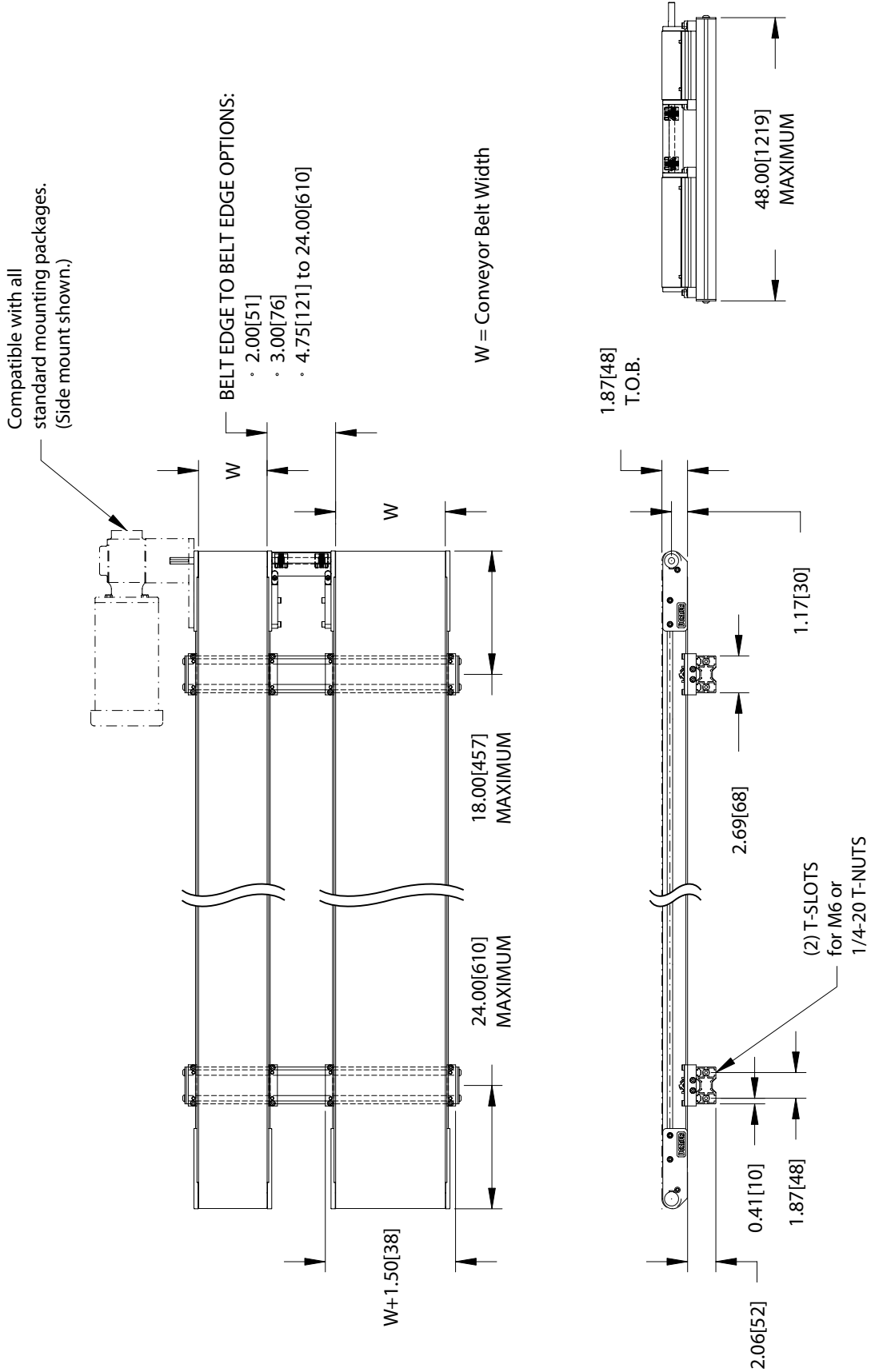
*Reference Full Specification Catalog Pg 8 for Conveyor Details*

### 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
  - 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



### **Profiles:**

- All 2200 Series profiles are applicable.
- See Full Specifications Catalog Pg. 18 for details.

### **Belting:**

- All 2200 Series Belting is applicable.
- Finger Splice is preferred, plastic and metal clipper splice is available.
- See Full Specifications Catalog Pg. 19 for details.

### **Mounting Packages & Gearmotors:**

- All 2200 Series Mounting Packages and Gearmotors are applicable.
- See Full Specifications Catalog Pg. 22 & 30 for details.

### **Support Stands:**

- All 2200 Series Support Stands are applicable.
- See Full Specifications Catalog Pg. 38 for details.

**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 \_\_\_\_\_

\_\_\_\_\_

**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         Botom     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 : 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:

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

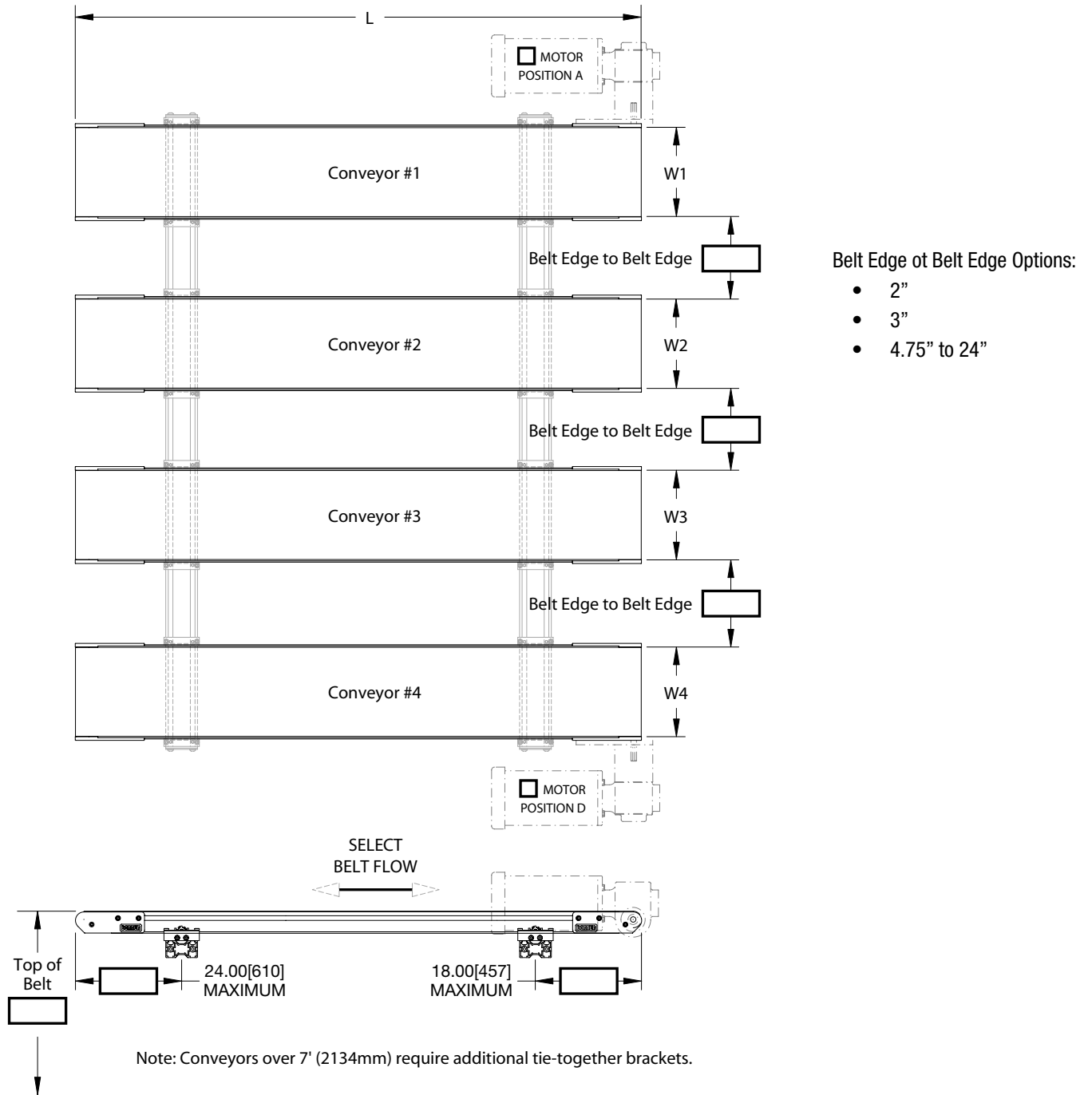
**Example:**  $\frac{(30 \text{ parts per minute}) \times (6" \text{ dia. part})}{12} = \frac{180}{12} = 15 \text{ ft/min. Minimum Belt Speed}$

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.



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

\*See Full Specifications Catalog pg. 19 for belt details.

\*\*See Full Specifications Catalog pg. 18 for profile details.