

975 Cottonwood Ave., PO Box 20, Hartland, Wisconsin 53029-0020, USA | [www.dorner.com](http://www.dorner.com) | [info@dorner.com](mailto:info@dorner.com)

### BACK LIT CONVEYORS

A light fixture is installed inside the conveyor frame and emits light through a translucent belt.

- Provides enhanced contrast between product and conveyor belt for visual inspection and vision system interface.
- Parts can be stopped directly over the lighted section or continue through uninterrupted.
- Incorporates internal LED lighting for better efficiency, longer life, and less heat.



### 2200 Series Conveyor Specifications

- Aluminum Extruded Frame with T-slot Construction
- Sealed Ball Bearings
- V-guided and Non-V-guided Belt Compatible
- Rack and Pinion Belt Tensioning
- End and Center Drive Compatible
- Optional 8 mm DIA Roller Interface Tail Section
- Conveyor Widths: 3.75" to 24" wide
- Conveyor Lengths: End Drive = 2' to 18' long, Center Drive = 2' to 24' long
- Belt Speeds: up to 264 ft/min
- Equipped with Dorner #53 Translucent Conveyor Belting (Other translucent belts available upon request)

### LED Panel Specifications:

- Panel is edge-lit along both long edges
- .375 watts per linear inch of edge lighting
- 5300K white light (red, green, or blue light available upon request)

### Electrical Specifications:

- 12 volt DC lights (24 volt DC available upon request)
- Power supply included (115 volt AC, 60 Hz input/12 volt DC output)
- Includes on/off switch and quick-disconnect power receptacle mounted to side of frame

### Profiles:

- All 2200 Series profiles are applicable
- *Reference Full Specification Catalog or [www.dorner.com](http://www.dorner.com) for details*

### Belting:

- Dorner #53 belt (Other translucent belts available upon request)
- Belt must be finger spliced
- *Reference Full Specification Catalog or [www.dorner.com](http://www.dorner.com) for details*

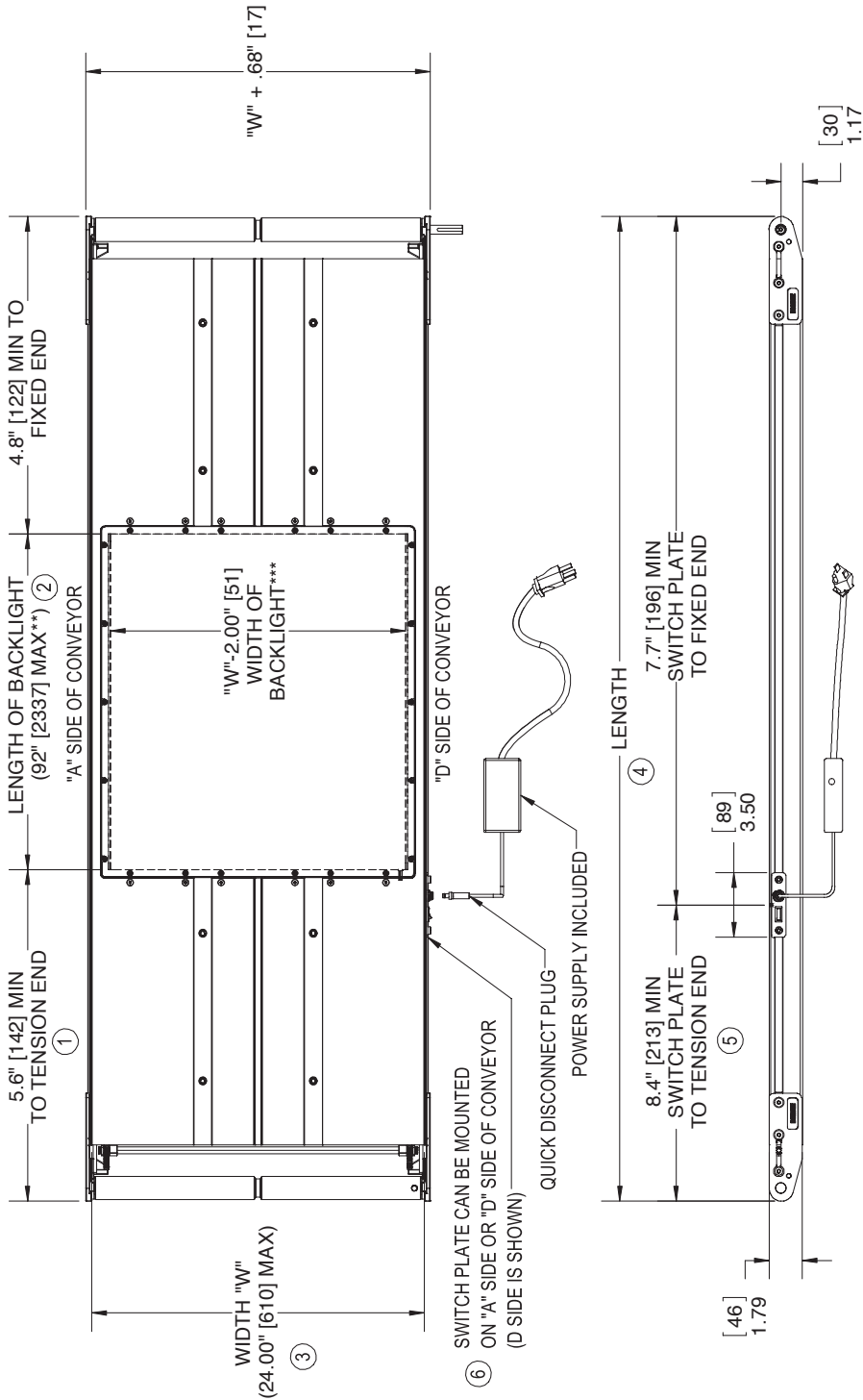
### Mounting Packages & Gearmotors:

- All 2200 series mounting packages and gearmotors are applicable
- *Reference Full Specification Catalog or [www.dorner.com](http://www.dorner.com) for details*

### Support Stands:

- All 2200 Series support stands are applicable
- *Reference Full Specification Catalog or [www.dorner.com](http://www.dorner.com) for details*

## Dimensions & Back Lit Layout



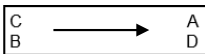
SPECIFY THE FOLLOWING DIMENSIONS WHEN REQUESTING QUOTE:

- (1) DISTANCE FROM TENSION END
- (2) LENGTH OF BACKLIGHT
- (3) WIDTH OF CONVEYOR
- (4) LENGTH OF CONVEYOR
- (5) SWITCH PLATE DISTANCE FROM TENSION END
- (6) SWITCH PLATE LOCATION ("A" SIDE OR "D" SIDE)

\* SWITCH PLATE MUST BE WITHIN 36.0" [914] OF NEAREST EDGE OF BACKLIGHT  
 \*\* MAXIMUM SIZE OF BACKLIGHT IS 6 SQUARE FEET [0.56 SQUARE METERS]  
 \*\*\* FULL WIDTH BACKLIGHT AVAILABLE (BACKLIGHT WIDTH = "W"), CONSULT FACTORY

Contact Name:		Project Name:	
Company Name:		DTools Cong #:	
Email:		Phone:	
Address:			

## The Basics

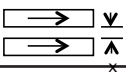
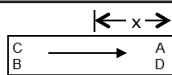
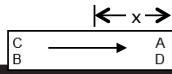
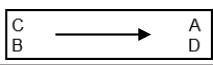
	Conveyor 1	Conveyor 2	Conveyor 3
Belt Widths			
Conveyor Lengths			
Drive Position (side, bottom, top, center)			
Drive Location (C & B reduce load capacity 66%)			
Belt Requirements (Flat or Cleated) (if unsure, describe application)			
Cleat Height (if needed) (see catalog for types)			
Cleat Spacing (if needed)			
Profile / Guiding type (see catalog)			
Top of Belt Heights from Floor (if stands are required) (Infeed and Outfeed)			
Belt Speed (fixed/variable) (Feet per Minute) or (Parts per Minute)			
For Variable Speed: DC or VFD?			
Input Voltage / Phase / HZ			
Stands Needed? Casters or Fixed Feet?			
Curves and LPZ models: attach a sketch with critical dimensions.			
Maximum load on conveyors			
Will parts accumulate? (Stop while belt continues to run)			
Describe how the products are presented to & discharged from conveyor			

## The Product

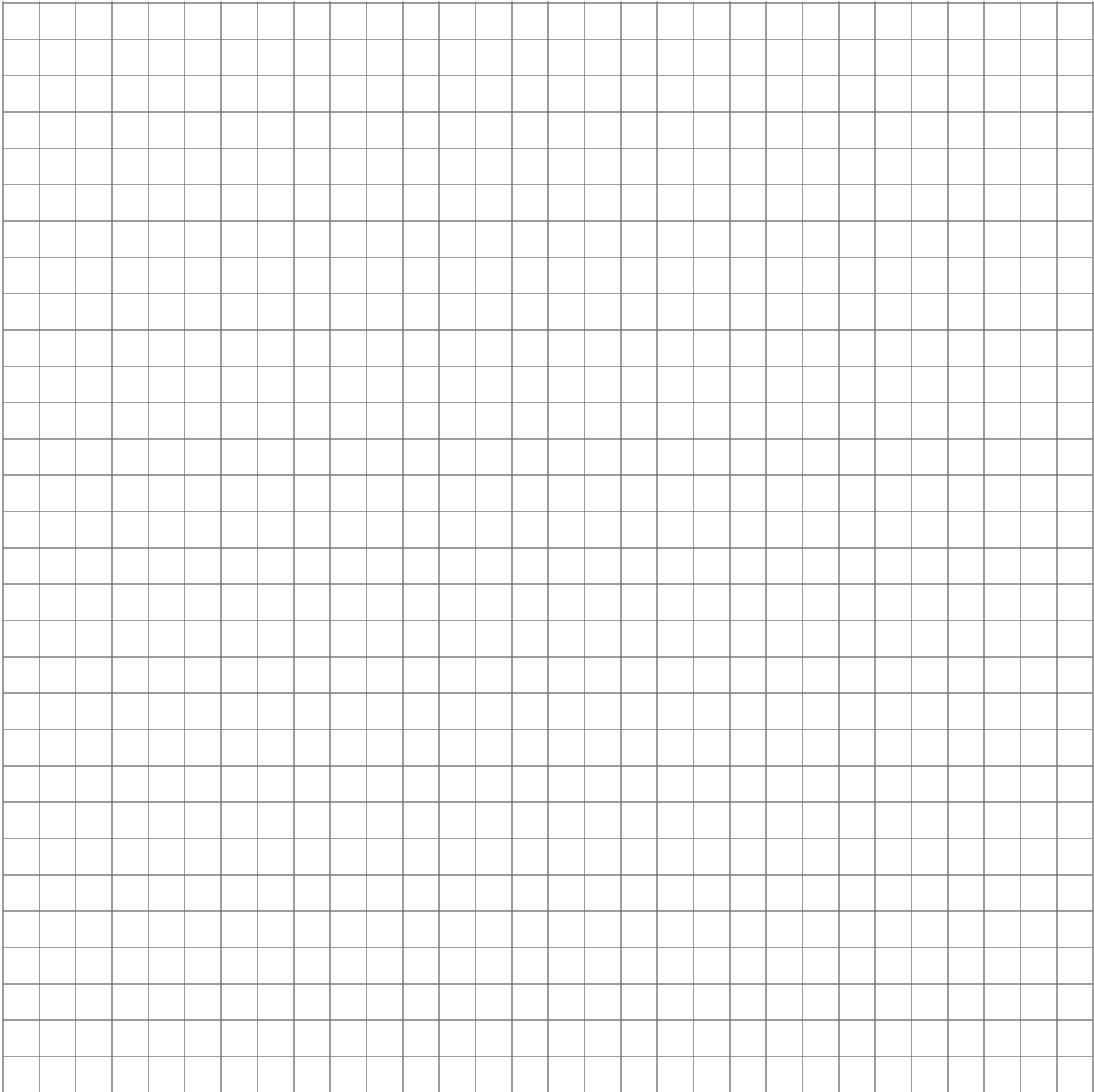
Product Description (shape, material, unique features, sharp edges, fragile, etc)			
Product Dimensions & orientation on the belt			
Part Temperature			
Part Weight			

## The Environment

Room temperature or operating temperature near conveyor, if unusual			
Describe any chemicals, lubricants, etc. to contact conveyors?			
Wash down or wipe down? High pressure? (Over 60 psi)?			

Application Description / Additional Information			
	Conveyor 1	Conveyor 2	Conveyor 3
Enter any other pertinent information here			
<b>Common modifications and additional information needed.</b>			
<b>Magnetic &amp; Vacuum Conveyors</b>			
How are products presented to the conveyor?			
How are products to be removed from conveyor?			
Angle of incline/decline, if any?			
What function is the conveyor expected to perform?			
Are product samples available for testing?			
Specific zone length requirements?			
What forces must the magnets or vacuum resist?			
<b>Common Drive Conveyors</b>			
Size of free & clear gaps required between conveyors 			
Quantity of conveyors to be common driven			
<b>Backlit Conveyors</b>			
LED light source type (light color, brightness, etc)			
Zone length			
Zone location along conveyor length from tension end 			
Switch plate location (must be within 12" of the light) 			
<b>Additional Output Shaft</b>			
Position on conveyor (A, B, C, D) 			
Required shaft dimensions			
How is shaft to be used?			
<b>Guiding</b>			
Height from top of belt			
Required width for product			
Lane spacing (if any)			
Material requirements			
How is guiding to be used (create simple lanes, product positioning, etc) ?			
<b>Metal Free Zone Conveyors</b>			
Length of zone			
Why is zone needed (metal detection, X-Ray, etc)			
<b>Complex Projects</b>			
For sophisticated projects, please provide as much of the following information as possible.			
Layout drawings			
Process / sequence of operation descriptions			
Control requirements			
Machine interface needs			
Sample products			
Factory acceptance test requirements			
Installation requirements			

Contact Name:		Project Name:	
Company Name:		DTools Cong #:	
Email:		Phone:	
Address:			




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