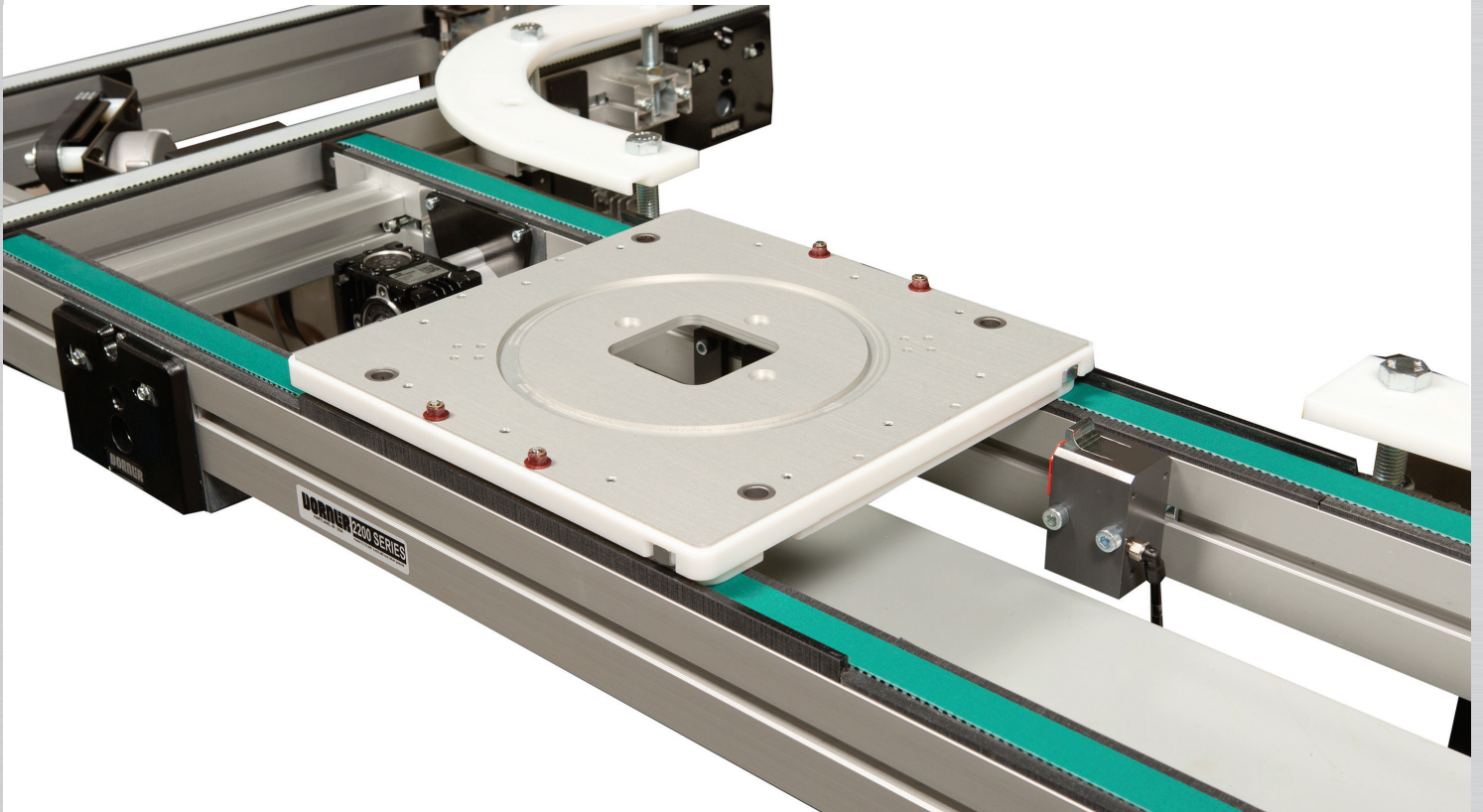


Fast & Simple to Use  
Online Configurator

Innovative Timing Belt  
Conveyor Design

Industry Best  
Pallet Transfer System

Clean Room Class  
100 Certified



# 2200 SERIES PRECISION *MOVE* PALLET SYSTEMS

Innovative, Modular, Dual Belt Conveyor  
Pallet Systems for Assembly Automation

**DORNIER**® 

# 2200 SERIES PRECISION MOVE PALLET SYSTEMS

## 2200 Series Precision Move Pallet Systems are Best for:

- Medium to Large Size Part Movement
  - Product Routing and Control
  - Product Inspection
- Assembly Automation in:
- Automotive
  - Electronics
  - Medical
  - Life Science Products
  - Health and Beauty Products
  - Appliance Products

## Sizes & Measurements

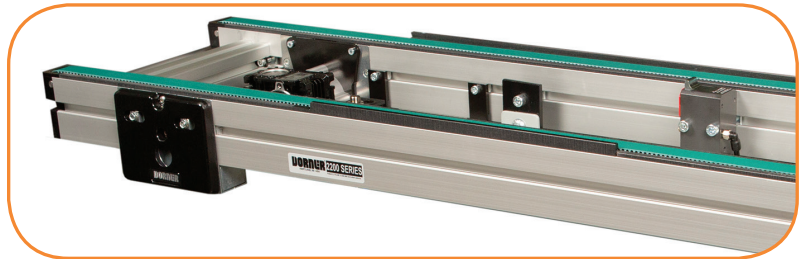
- Widths: 160, 240, 320, 400, and 480 mm
- Lengths: Up to 24' 7" (7500mm)

## Loads & Speeds

- Conveyor Load Capacity
  - 500 lbs non-accumulating
  - 250 lbs accumulated
- Pallet capacity of 30 to 70 lbs
- Speeds up to 114 ft/min (34 m/min)

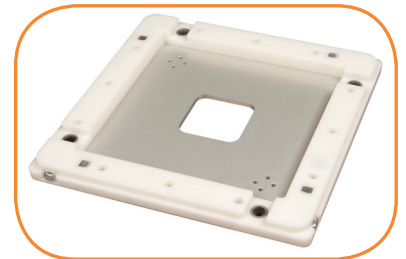
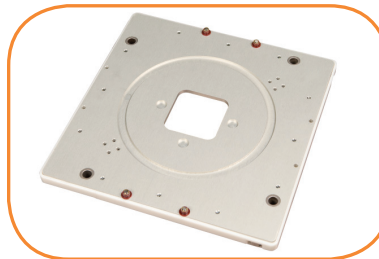
## Conveyors

- Dual belt conveyors with common drive module
- 25mm wide 5mm pitch timing belt conveyor
- Standard or static conductive belting available
- Aluminum extruded frame with universal T-Slot
- Quick belt change without conveyor removal

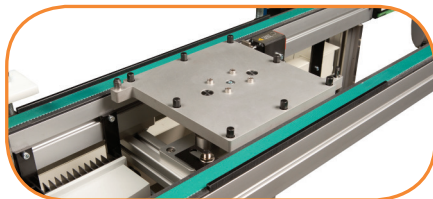


## Pallets

- 160mm to 480mm
- Industry compatible sizes and bushing locations
- Static conductive pallet skirt
- Square and rectangular sizes available
- Pallets are sold as kits or completed assemblies



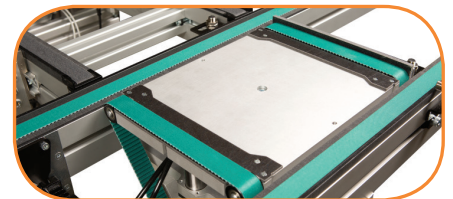
## Modules



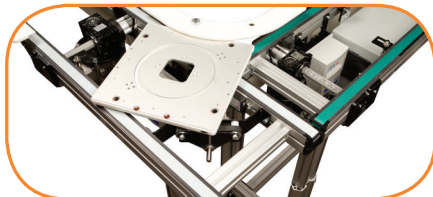
Lift & Locate



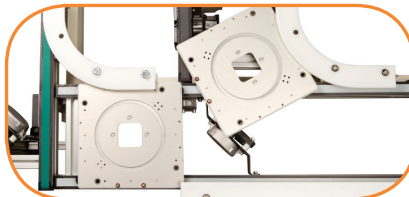
Lift & Rotate



Lift & Transfer



90 Degree Corner



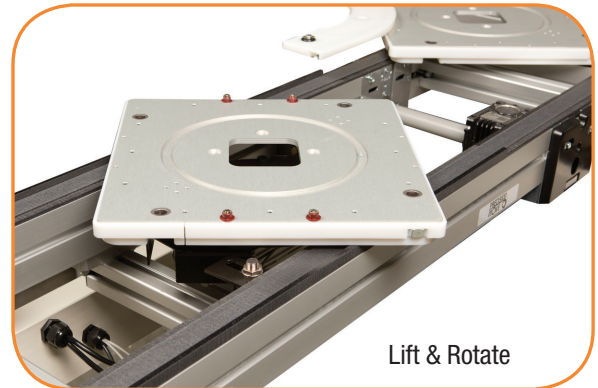
90 Degree Corner & Merge



Cushioned Pallet Stop  
(Non-cushioned also available)

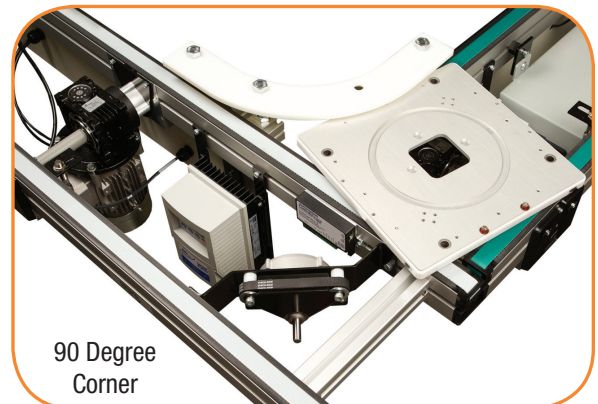
## Innovative Lifting Modules

- Lift and Locate:
  - Adjustable height lift from center of conveyor
  - Provides 200 lbs of lift capability at 90psi
  - Accuracy of  $\pm 0.002$ "
- Lift and Rotate:
  - Pneumatic lift from center of conveyor
  - Pneumatic rotation with adjustable positioning
  - Rotation angle: 90 to 180 degrees adjustable
  - Includes cushioned lift stroke
- Lift and Transfer:
  - Changes product orientation
  - Uses dual strand timing belt conveyors and pneumatic lift
  - 70 lbs load capacity



## Simple Powered Corner Modules

- 90 Degree Corner:
  - Uses pin tracking in pallet
  - Maintains product orientation through the turn
  - Includes 24VDC drive mechanism to drive the pallet around the corner
- 90 Degree Corner and Merge:
  - Uses pin tracking in pallet
  - Inside guide is mounted to pneumatic cylinders to transfer pallet around corner
  - Straight guide with pneumatic cylinder is mounted across perpendicular conveyor to guide pallets straight through the merge area
  - Includes 24VDC drive mechanism to drive the pallet around the corner



## Accurate Pin Tracking System

- Simple and cost effective method of tracking pallets through turns
- Used on 90 Degree Corner and 90 Degree Corner & Merge Modules



## The Benefits of a Dorner 2200 Series Precision Move Pallet System

### Innovative Offering

- Timing belt conveyors provide added load capacity in a small platform
- Quick belt change without the need to remove conveyor from system
- Pin Tracking System provides cost effective pallet traffic management

### Delivers Fast

- Dorner sets the industry standard for rapid delivery
- Conveyors and automation modules available in 20 days or less

### Time Saving

- Dorner's online configurator engineers simple to complex configurations in minutes.
- The industry leading tool delivers a complete 3D Assembly model for instant validation of fit

At Dorner we make it our mission to provide you with a system that you can depend on to move your product from point A to point B with precision and speed. It's that commitment and history of proven excellence that has made the Dorner Brand a recognized leader in precision conveyors for nearly 50 years. With our complete line of customizable conveyor systems we have the perfect solution for you!



## 1X Series

The 1X Series Line is designed for small part handling and transfers where space is a premium.

### 1X Series Family:

- Flat Belt
- Aluminum Frame
- Widths to 10"
- Loads to 15 lbs
- Speeds up to 80 fpm



## 2X Series

The 2X Series Line is engineered for small to medium sized parts, precision applications and flexible layouts.

### 2X Series Family:

- Flat Belt
- Cleated Belt
- Modular Belt
- Precision Move
- SmartFlex®
- Aluminum Frame
- Widths to 24"
- Loads to 200 lbs
- Speeds up to 400 fpm
- Curves
- Z-Frame Elevators



## 3X Series

The 3X Series Line is designed for medium to heavy sized parts, precision applications, bulk handling and flexible layouts.

### 3X Series Family:

- Flat Belt
- Cleated Belt
- Modular Belt
- Flexible Chain
- Precision Move
- Aluminum Frame
- Widths to 60"
- Loads to 1000 lbs
- Speeds up to 600 fpm
- Curves
- Z-Frame Elevators



## 7X Series

The 7X Series Stainless Steel Line is engineered for small to heavy product requiring various levels of sanitary design and flexible layouts.

### 7X Series Family:

- AquaPruf® + AquaGard®
- Flat Belt
- Cleated Belt
- Modular Belt
- Flexible Chain
- Vertical Belt Technology
- Stainless Steel Frame
- Widths to 52"
- Loads to 750 lbs
- Speeds up to 400 fpm
- Curves
- Z-Frame Elevators

### NEED SOMETHING DIFFERENT?

DORNER'S **ENGINEERED SOLUTIONS GROUP** PROVIDES EXACTLY WHAT YOU NEED FOR YOUR SPECIFIC APPLICATION. FROM MODIFIED STANDARD CONVEYORS TO COMPLETE CUSTOM DESIGNS.

### LOOKING FOR AFTER SALE SUPPORT?

DORNER'S **SERVICES TEAM** PROVIDES COMPLETE SUPPORT FROM REPLACEMENT PARTS TO INSTALLATION AND MAINTENANCE SERVICES.



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