

Medium & Heavy-Load  
Assembly Automation

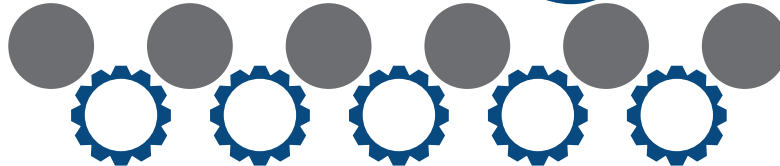
ISO Class 4 Verified  
for Cleanrooms

Efficient, Non-Contact  
Zoning

Clean, Open Roller  
Design



# ERT<sup>®</sup> 250



## Edge Roller Technology

Precision Edge Roller Pallet &  
Tray Handling Conveyors

**DORNER<sup>®</sup>**  
By Columbus McKinnon

## ERT<sup>®</sup>250 Conveyors are best for:

- Pallet & Tray Handling
- No & Low Back Pressure Accumulation
- Cleanroom Applications
- Large & Medium Assembly Automation
- Medical Product Manufacturing
- Packaging
- Medical Device Manufacturing
- Automotive Assembly
- Electronic & Consumer Goods Assembly
- Appliance Manufacturing

## Sizes & Measurements

- 120 mm to 960 mm wide
- 150 mm long tray minimum
- 38 mm diameter rollers on 50 mm centers

## Slip & Driven Rollers



**Driven Roller**  
(over molded on shaft)



**Slip Roller**

## Slide Rail Options

Aluminum frame with two T-Slot options



**T-Slot Rail**



**Flush Side Rail (Cleanroom)**

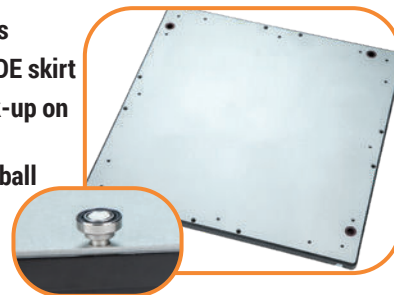
## Loads & Speeds

- Loads: up to 114 kg (250 lbs) per pallet or tray
- Up to 6.8 kg (15 lbs) per roller
- Speeds: up to 37 m/min (121 ft/min)

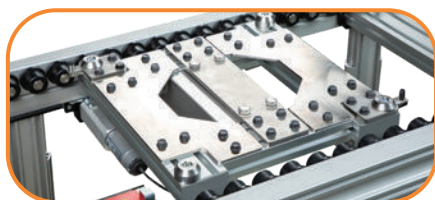


## Pallets

- 320 to 800 mm pallets
- Static conductive HPDE skirt
- Proximity sensor pick-up on side and bottom
- Optional pin tracking ball bearings for corner conveyors



## Modules



**Lift & Locate**



**Lift & Rotate**



**Lift & Transfer**



**90 & 180 Degree Corners**



**Pallet Pusher**



**Pallet Stops**

## Zone & Slip Roller Technology

- Non-contact zone control provides simplified traffic control, eliminating pallet stops and costly pneumatic valves
- Low back pressure slip rollers can be used for full length with conventional pneumatic pallet stops
- Individual rollers can be replaced if damaged without affecting the remaining portion of the conveyor
- No belts, reducing product contact and debris



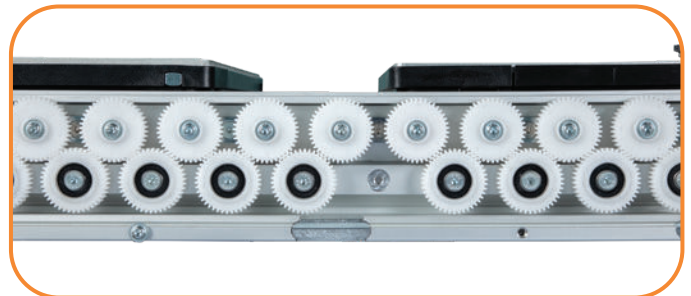
## Easily Reconfigurable

- Gears, drive shaft, and gearmotor can be repositioned in the field
- The gearmotor can be moved on 250 mm increments
- Lower gears can be removed and gearmotor added to create new zones
- The drive shaft can be moved to any roller zone
- The drive shaft can be relocated to the lower height for added product clearance



## Patent Pending Gearbox Drive Design

- Durable, patent pending linear gearbox design provides a robust and flexible method of driven rollers
- Brushless DC gearmotors and controllers
- Reversible motors for assembly automation
- 50 watt, 3.5 amp, low voltage brushless DC motors are used to save space and provide improved efficiency
- All motor controllers are Ethernet IP, Modbus TCP or PROFINET for ease of control logic, wiring and communication



## The Benefits of a Dorner ERT250 Conveyor

### Industry Ready

- Reliable and adaptable edge roller platform for the conveyance of medical and cleanroom-based product assembly
- Versatile and durable low back pressure platform for the conveyance of appliance, electronics, automotive and consumer goods product assembly
- Open drive roller design with aluminum frames
- ISO Class 4 verified for cleanroom applications

### Simple & Effective Design

- Non-contact zoning and/or slip roller accumulation capability
- Patent pending linear gearbox technology
- Designed for configuration and modifications in the field
- Variety of automation modules for product traffic control

### Safe & Efficient

- Non-jamming; open drive rollers reduce pinch points
- Low-voltage motors are designed to reduce power consumption





**Industrial**



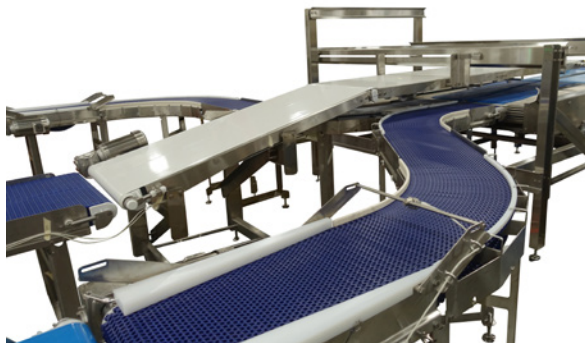
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## TRANSFORMING CONVEYOR AUTOMATION

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**DORNER**<sup>®</sup>

By Columbus McKinnon

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CONVEYANCE SOLUTIONS

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