

Medium & Heavy-Load
Assembly Automation

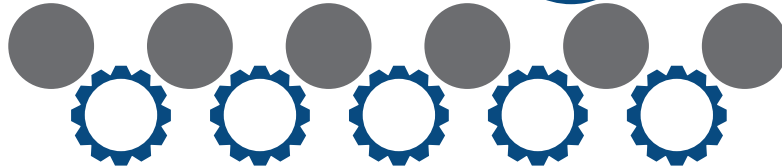
ISO Class 4 Verified
for Cleanrooms

Efficient, Non-Contact
Zoning

Clean, Open Roller
Design



ERT[®] 250



Edge Roller Technology

Precision Edge Roller Pallet &
Tray Handling Conveyors

DORNER[®]

By Columbus McKinnon

ERT[®]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

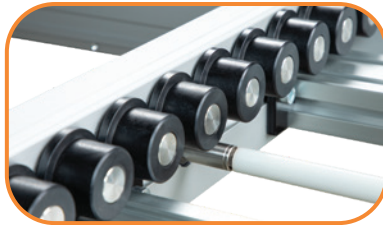
Sizes & Measurements

- 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

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)



Slide Rail Options

Aluminum frame with two T-Slot options



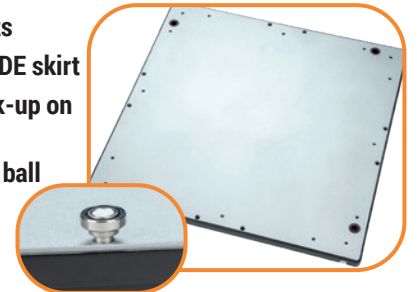
T-Slot Rail



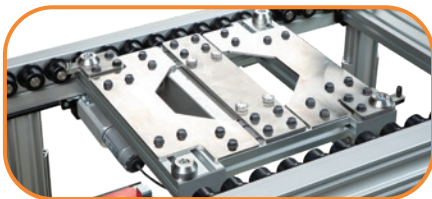
Flush Side Rail (Cleanroom)

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



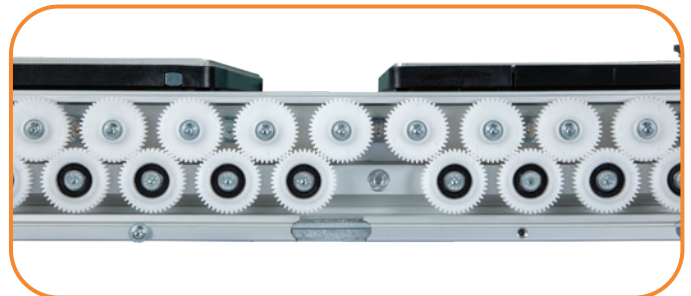
Easily Reconfigurable

- 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



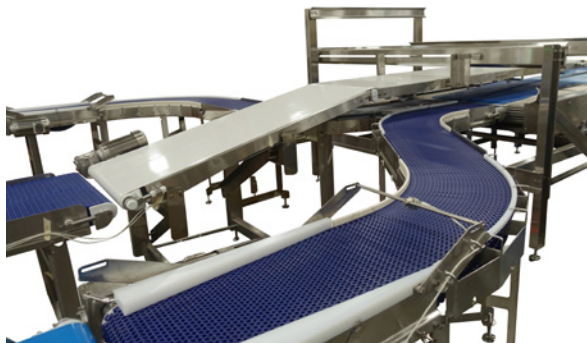
Flexible Chain



Pallet Systems



Sanitary Stainless Steel



Engineered Solutions Group

Custom engineered solutions for almost any application.



CAD Configurator Tool

Industry leading tool! Configure your own custom conveyor in minutes.

TRANSFORMING CONVEYOR AUTOMATION

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CONVEYANCE SOLUTIONS

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