

Small & Light-Load
Assembly Automation

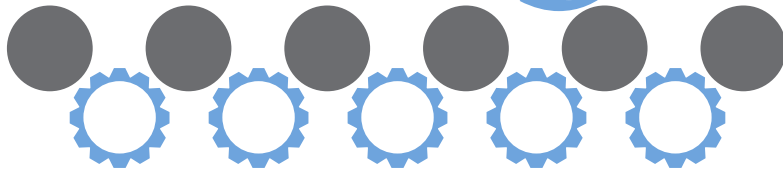
ISO Class 4 Verified
for Cleanrooms

Efficient, Non-Contact
Zoning

Clean, Open Roller
Design



ERT[®] 150



Edge Roller Technology

Precision Edge Roller Pallet &
Tray Handling Conveyors

DORNER[®]

By Columbus McKinnon

ERT150 Conveyors are best for:

- Pallet & Tray Handling
- No & Low Back Pressure Accumulation
- Cleanroom Applications
- Small and Light-Load Assembly Automation
- Medical Product Manufacturing
- Packaging
- Medical Device Manufacturing
- Electronic & Consumer Goods Assembly

Sizes & Measurements

- Width from 80 mm to 480 mm
- Lengths from 128 mm to 2432 mm (in 64 mm increments)
- 24 mm diameter rollers on 32 mm centers

Slip & Driven Rollers



Driven Roller



Slip Roller

Slide Rail Options

Aluminum frame with two T-slot options



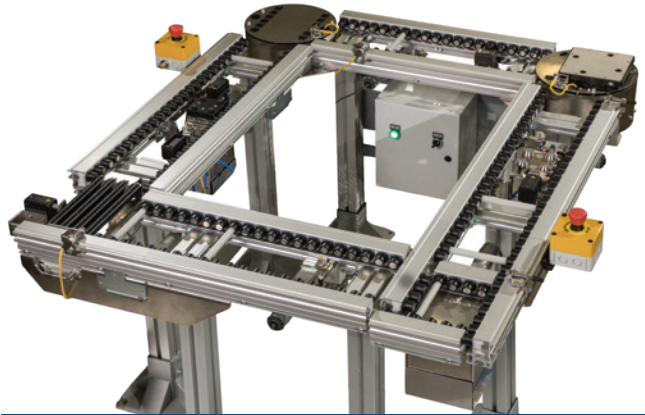
T-slot Rail



Flush Side Rail (Cleanroom)

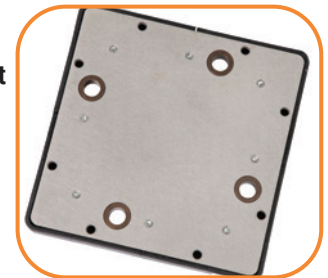
Loads & Speeds

- Loads: up to 16 kg (35 lbs) per pallet or tray
- Speeds: up to 37 m/min (121 ft/min)

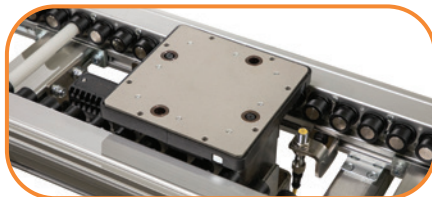


Pallets

- 160 mm to 320 mm pallets
- Static conductive HPDE skirt
- Proximity sensor pick-up on side and bottom
- Dimensionally compatible with industry standards



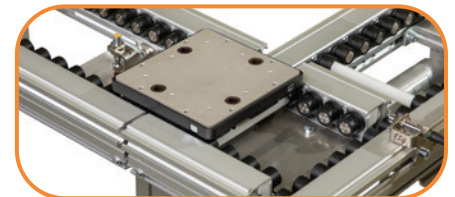
Modules



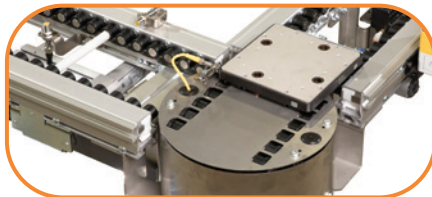
Lift & Locate



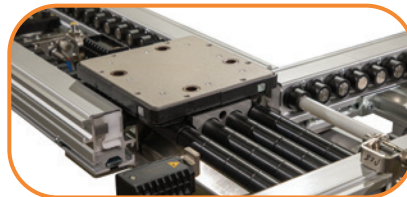
Lift & Rotate



Lift & Transfer



Turn & Transfer



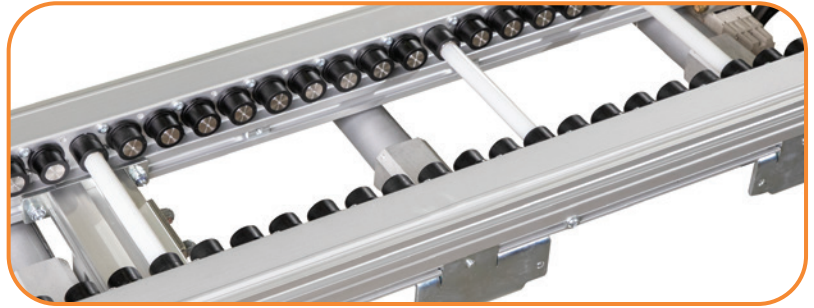
Pallet Pusher



Pallet Stops

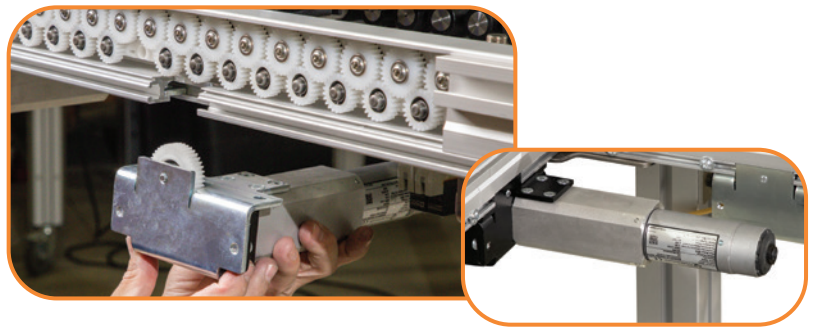
Zone & Slip Roller Technology

- 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



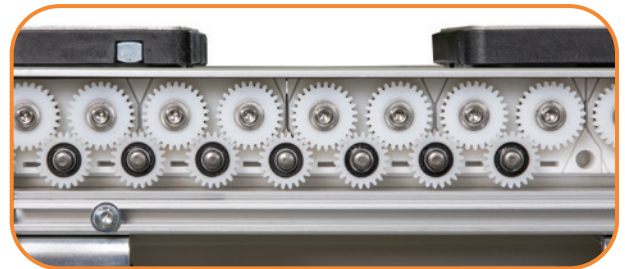
Easily Reconfigurable

- Gears and drive shaft can be repositioned in the field
- Lower gears can be removed and gearmotor added to create new zones
- The drive shaft can be moved to any roller zone



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, 3.0 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 ERT[®]150 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



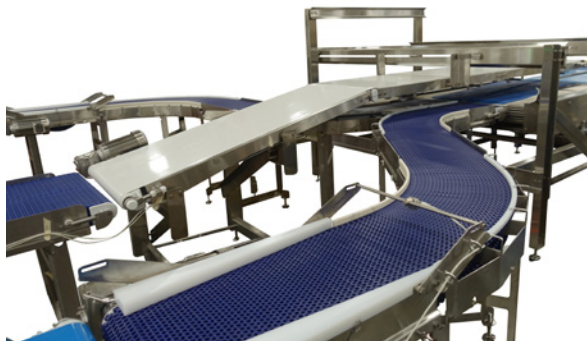
Flexible Chain



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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