ENGINEERING MANUAL

Small & Light-Load Assembly Automation ISO Class 4 Approved for Cleanrooms

Efficient, Non-Contact Zoning

Clean, Open Roller Design



ERT 150

Edge Roller Technology

Precision Edge Roller Pallet & Tray Handling Conveyors





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 approved 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

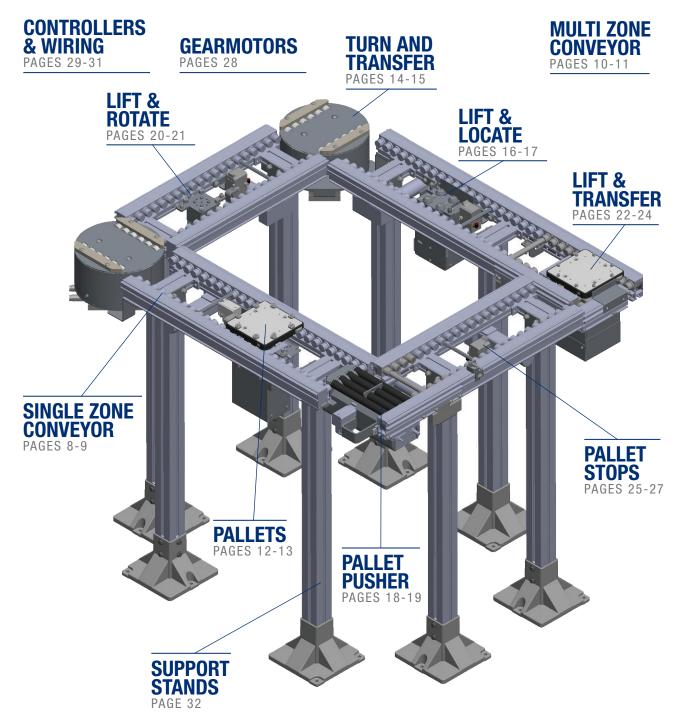
Safe & Efficient

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



GRAPHICAL TABLE OF CONTENTS







EXAMPLE LAYOUTS
PAGES 6-7

ENGINEERED SOLUTIONS
PAGES 35

ACCESSORIES

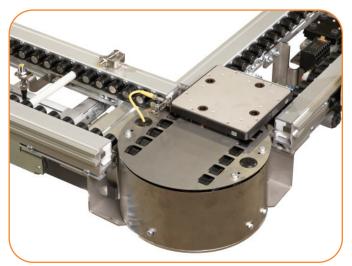
PAGES 33-34











INNOVATIVE CORNERS:

THE CORNER SYSTEMS PROVIDES A SIMPLE, COST EFFECTIVE MEANS FOR PALLET TRAFFIC CONTROL



LOW VOLTAGE GEARMOTORS:

COMPACT, COST EFFICIENT 24 VDC BRUSHLESS GEARMOTORS AND CONTROLS PROVIDE A MODULAR CONTROL SCHEME



ONSITE RECONFIGURATION AND MAINTENANCE:

INDIVIDUAL ROLLERS AND DRIVE SHAFTS CAN BE REMOVED, REPAIRED, AND REPOSITIONED WITHOUT DISASSEMBLY OF THE COMPLETE CONVEYOR



UNIVERSAL T-SLOT:

CONVEYOR T-SLOT IS COMPATIBLE WITH DORNER 2200 SERIES AND FLEXMOVE® T-SLOT HARDWARE ALONG WITH SELECT INDUSTRY STANDARD 10 MM SLOT HARDWARE



CONVEYOR FEATURES







ZONING CONVEYOR:

CONVEYOR CAPABLE OF HAVING MULTIPLE ZONES FOR PALLET OR TRAY CONTROL, ELIMINATING STOPS AND PNEUMATIC VALVES



INDUSTRY COMPATIBLE PALLETS:

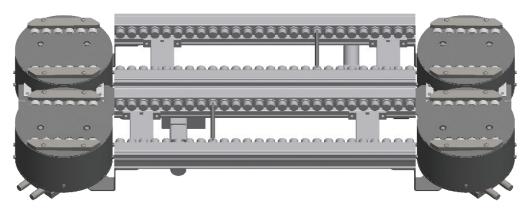
PALLETS AVAILABLE IN INDUSTRY STANDARD SIZES ALONG WITH LOCATION PINS THAT ARE COMPATIBLE WITH INDUSTRY STANDARD PALLETS AND LOCATE STATIONS



SLIP ROLLER DESIGN MINIMIZES BACK PRESSURE ON ACCUMULATED PALLETS OR TRAYS, ALSO ELIMINATING DUST OFTEN SEEN WITH TRADITIONAL CONVEYORS

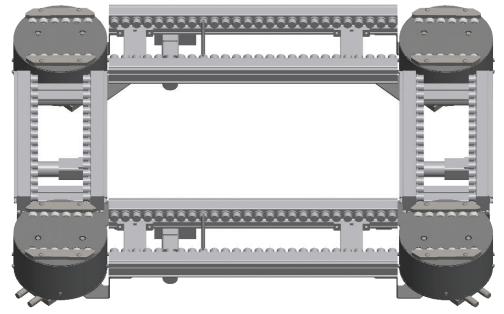






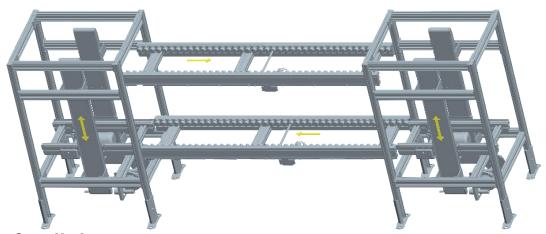
Loop with Close Transfer

Main lines are spaced tightly together to remove transverse conveyors



Loop (Racetrack)

Leading edge orientation is maintained using turn and transfer modules



Over Under

The return line is located under the main line. Vertical Transfer Units (Elevators) raise and lower the pallets at each end



(5) Stopped Pallets for Operator Stations (2) Pallet Accumulation (2) Pallet Accumulation

Lift and Locate

(4) Pallet Accumulation

Product Required for Slip Roller Conveyor Method:

- (2) Long conveyors full slip rollers
- (2) Short conveyors full slip rollers
- (4) Brushless DC gearmotors for conveyors
- (2) 24VDC gearmotor controllers
- (1) Lift and Locate Module
- (4) Lift and Transfer Modules
- (9) Pallet Stops
- (18) Pneumatic solenoid valves with air plumbing and electrical wiring

Benefits:

- Low back pressure contact accumulation
- Continuous run gearmotors
- · Low voltage gearmotor wiring

Product Required for Zone Conveyor Method:

- (2) Long conveyors with (5) zones each
- (2) Short conveyors with (2) zones each
- (14) Brushless DC gearmotors
- (7) 24VDC gearmotor controllers
- (1) Lift and Locate
- (4) Lift and Transfer Modules
- (1) Pallet Stops (for Lift and Locate)
- (6) Pneumatic solenoid valves with air plumbing and electrical wiring

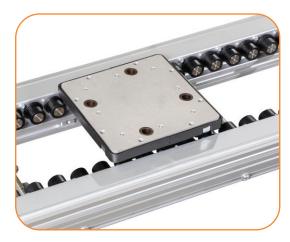
Benefits:

- Non-contact pallet accumulation
- · Flexibility of controlled gearmotors
- · Low voltage gearmotor wiring
- Minimized pneumatics to reduce noise, wiring / plumbing costs, and solenoid hardware















- 24 mm (0.95 in) diameter rollers on 32 mm (1.36 in) centers
- 80 mm (3.15 in) to 480 mm (18.9 in) wide
 - o Standard pallet widths from 160 mm to 320 mm wide
- Lengths from 128 mm to 2432 mm in 64 mm increments
 - Conveyors over 1216 mm contain 2 gearmotors
 - For longer conveyors simply bolt multiple conveyors together
- Load capacity: Up to 16 kg (35 lbs) per pallet
- Up to 37 m/min (121 ft/min)
- Driven rollers for indexing / zoning and transport applications
- Slip rollers for low back pressure accumulation
- Brushless DC gearmotor and controller. See page 28-29 for specifications
 - Conveyors over 1216 mm in length contain (2) gearmotors with (1) controller
- Bi-directional and reversing
- Gearmotor can be located at multiple locations along length on 128 mm increments
- Outer frame cover: flush design or flexible T-slot options available
- · Clear anodized aluminum framing
- Electrically conductive polyamide rollers
- ISO Class 4 Cleanroom Rated



STANDARD FEATURE: Universal T-slot compatible with industry standard 10 mm hardware



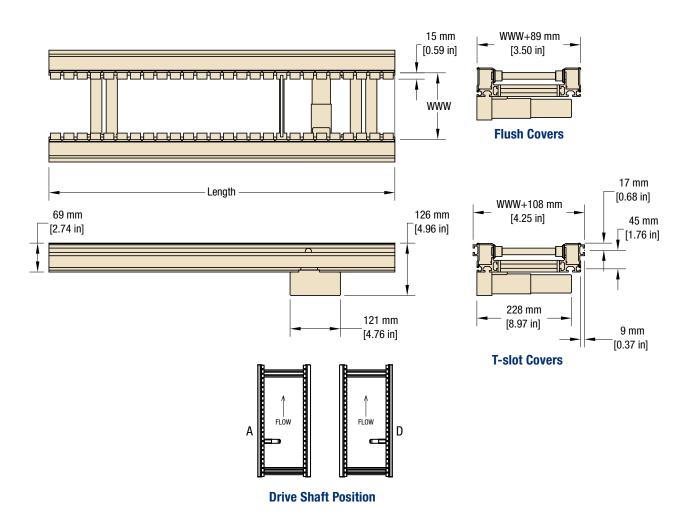
STANDARD OPTION: Flush outer cover can be provided



STANDARD FEATURE: Conveyor roller provides pallet guiding

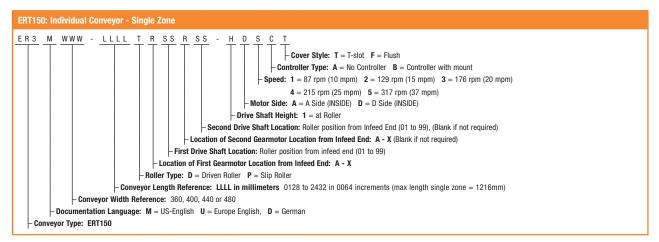






Standard Single Zone Sizes					
Conveyor Width Reference*	80	120	40 increments up to	440	480
Conveyor Belt Width (W)*	80 mm (3.15 in)	120 mm (4.72 in)	40 mm (1.6 in) increments up to	440 mm (17.3 in)	480 mm (18.9 in)
Conveyor Length Reference	0128		0064 increments up to		
Conveyor Length (L)	128 mm (0.42 ft)		64 mm (2.52 in) increments up to		

^{*}Standard Pallet Widths: 160, 200, 240, 280 and 320 mm



Note: Due to the wide variety of drive setups and applications, point of installation guarding is the responsibility of the end user.

Note: Dimensions = mm (in)















- · Multiple Zone conveyor. Up to 4 zones per conveyor
- 24 mm (0.95 in) diameter rollers on 32 mm (1.26 in) centers
- 80 mm (3.15 in) to 480 mm (18.9 in) wide
 - o Standard pallet widths from 160 mm to 320 mm wide
- Minimum Zone Length: 128 mm (5.0 in)
- Maximum Zone Length: 1216 mm (42.9 in)
- Length increments = 64 mm (2.52 in)
- Total maximum conveyor length: 3136 mm
- Load capacity: Up to 16 kg (35 lbs) per pallet / per zone
- Up to 37 m/min (121 ft/min)
- Driven rollers for indexing / zoning and transport applications
- Slip rollers for low back pressure accumulation
- Brushless DC gearmotor provided for each zone. Controller can drive up to 2 gearmotors. See page 28-29 for specifications
- · Bi-directional and reversing
- Gearmotor can be located at multiple locations along length on 128 mm increments
- Outer frame cover: flush design or flexible dual T-slot options available
- · Clear anodized aluminum framing
- Electrically conductive polyamide rollers
- ISO Class 4 Cleanroom Rated



STANDARD FEATURE: Universal T-slot compatible with industry standard 10 mm hardware



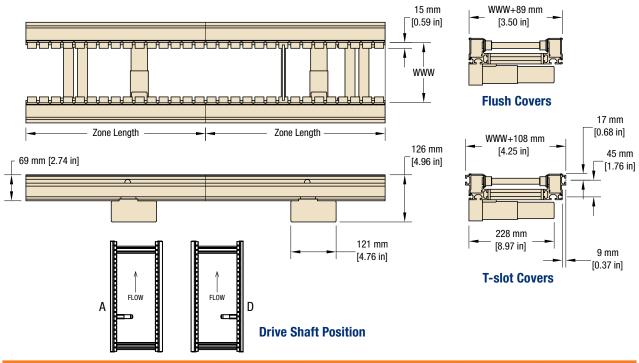
STANDARD OPTION: Flush or T-slot outer cover can be provided



STANDARD FEATURE: Conveyor roller provides pallet guiding

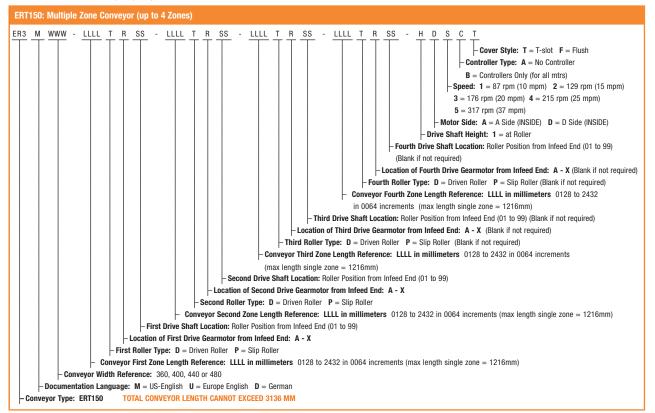






Standard Single Zone Sizes					
Conveyor Width Reference*	80	120	40 increments up to	440	480
Conveyor Belt Width (W)*	80 mm (3.15 in)	120 mm (4.72 in)	40 mm (1.6 in) increments up to	440 mm (17.3 in)	480 mm (18.9 in)
Conveyor Length Reference	0128		0064 increments up to		
Conveyor Length (L)	128 mm (0.42 ft)	64 mm (2.52 in) increments up to			1216 mm (4.0 ft)

^{*}Standard Pallet Widths: 160, 200, 240, 280 and 320 mm



Note: Due to the wide variety of drive setups and applications, point of installation guarding is the responsibility of the end user. Note: Dimensions = mm (in)







- Pallet is dimensionally compatible with industry standards
- · Pallet Base:
 - Anodized aluminum tool plate is standard (other materials available, contact factory)
 - o Thicknesses of 1/4 in to 3/8 in
- Pallet Skirt Material: Electrostatic Dissipative HPDE
- Includes (4) hardened bushings for Lift and Locate
- Load capacity to 18 kg (40 lbs)
- Plated steel proximity sensor pick-up on bottom and side of pallet
- · Custom widths available
- Center of gravity of the combined payload should be located in the center third of the pallet



Pallet Sizes							
	Length (mm)						
		160	200	240	280	320	
	160	Х		X			
Œ	200		Х				
Width (mm)	240	Х		X		Х	
Wid	280				X		
	320			Х		X	

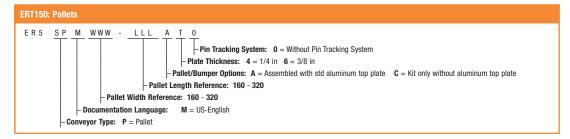
Total Load capacity including Pallet, Fixture and Product kg (lbs):								
	Length (mm)							
		160	200	240	280	320		
	160	9.1 (20)		10 (22)				
(mu	200		11.4 (25)					
Width (mm)	240	10 (22)		13.6 (30)		16 (35)		
Wid	280				16 (35)			
	320			16 (35)		18.2 (40)		







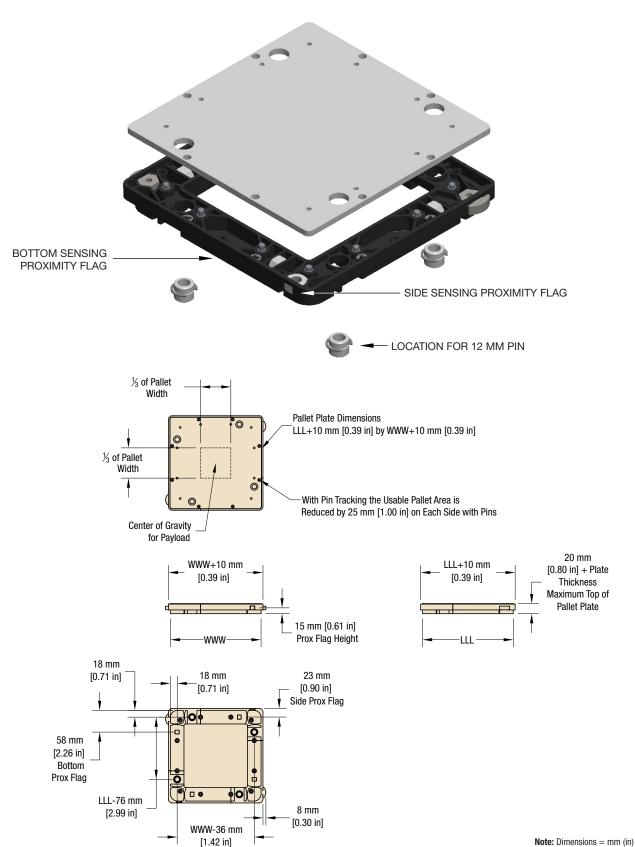
Side Sensing Location



Note: Pallet bumper cannot be used in applications where pallets slide against each other.



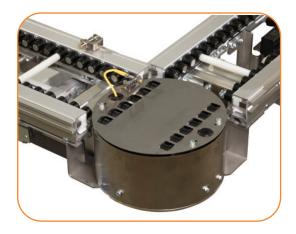




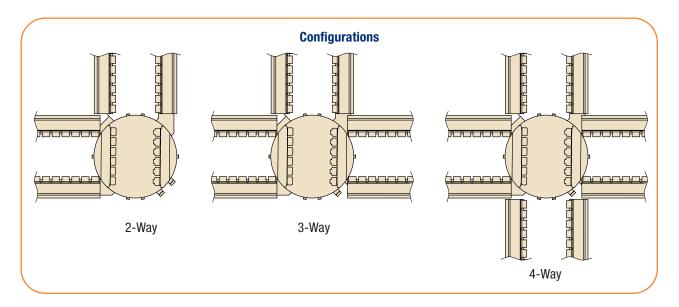
See page 43 & 44 for detailed pallet weights and detailed pallet plate drawings.

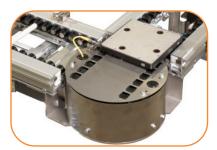




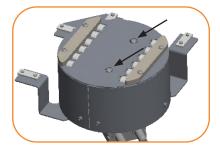


- 90 degree corners
- Standard pallet widths: 160 mm, 200 mm, 240 mm, 280 mm and 320 mm wide
- Load capacity: Up to 18 kg (40 lbs) per pallet
- Up to 37 m/min (121 ft/min)
- Maintains pallet orientation around corner
- 2-way, 3-way and 4-way configurations
- Pallet accumulation in corner is acceptable
- Brushless DC gearmotor and controller. See page 28-29 for specifications
- Bi-directional
- Clear anodized aluminum framing
- Electrically conductive acetal rollers
- ISO Class 4 Cleanroom Rated





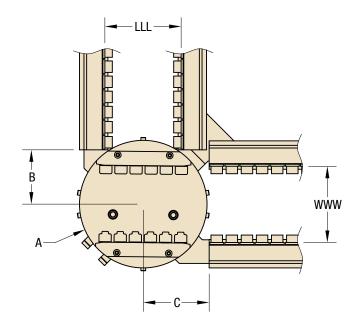
STANDARD FEATURE: Fully enclosed rotary device for operator safety



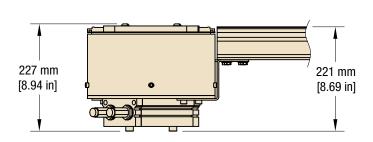
STANDARD FEATURE: Includes Pallet sensor brackets for 12 mm proximity sensor located inside housing

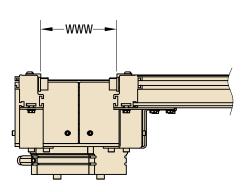


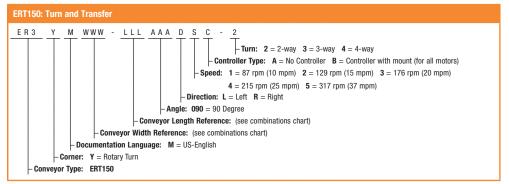




Turn and Transfer Conveyor						
Width	Length	Α	В	C		
160	160	270 mm (10.63 in)	115 mm (4.53 in)	140 mm (5.51 in)		
100	240	320 mm (12.60 in)	133 mm (5.24 in)	158 mm (6.22 in)		
200	200	320 mm (12.60 in)	133 mm (5.24 in)	158 mm (6.22 in)		
040	240	370 mm (14.57 in)	151 mm (5.94 in)	176 mm (6.93 in)		
240	320	420 mm (16.54 in)	168 mm (6.61 in)	193 mm (7.60 in)		
280	280	420 mm (16.54 in)	168 mm (6.61 in)	193 mm (7.60 in)		
320	320	470 mm (18.50 in)	186 mm (7.32 in)	211 mm (8.31 in)		



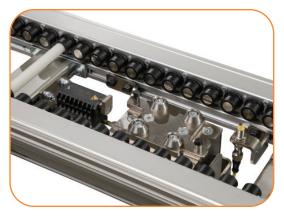


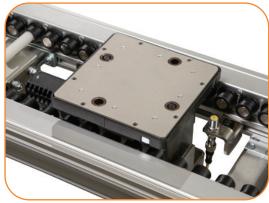


Combinations				
www	LLL			
160	160			
	240			
200	200			
	160			
240	240			
	320			
280	280			
320	240			
320	320			









- 2 Models
 - Standard Unit for most accuracy capacity
 - Low Height Unit for over/under applications
- · Lifts from center of conveyor
- · Pallet sizes: see chart
- Lift Capacity: 45.5 kg (100 lbs)
- · Repeatability:
 - o Standard: +/- 0.13 mm (0.005 in)
 - Low Height: +/- 0.38 mm (0.015 in)
- Lift height is adjustable. Maximum lift height is 20 mm (0.79 in) above top of roller
- · Includes adjustable bumper lift stroke
- 40 mm diameter pneumatic lift cylinder. Includes air fittings with integrated flow controls for ¼ inch push in air line. Solenoid valves and plumbing not provided
- Lift cylinder includes magnetic piston for position sensing.
 Sensors not provided. Compatible with 4 mm C-slot sensors.
- Requires cushioned or non-cushioned pallet stop.
 See page 25-27
- Optional guarding package available

Pallet Sizes							
Length (mm)							
		160	200	240	280	320	
	160	Х		Х			
Œ	200		Х				
Width (mm)	240	X		X		X	
Wid	280				Х		
	320			Х		Х	

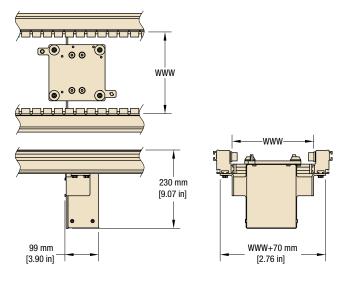


OPTIONAL:
Guarding Package

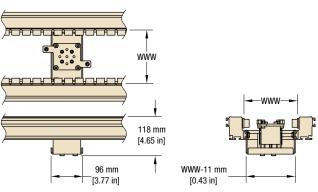
LIFT AND LOCATE

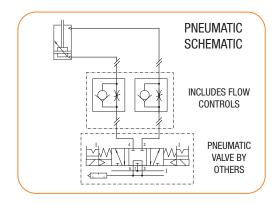


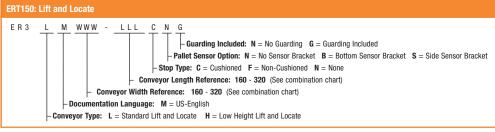
STANDARD UNIT



LOW HEIGHT UNIT







Combinations				
www	LLL			
160	160			
	240			
200	200			
	160			
240	240			
	320			
280	280			
320	240			
	320			

All combinations are valid except 160 mm width or length is not compatible with the bottom sensor bracket.

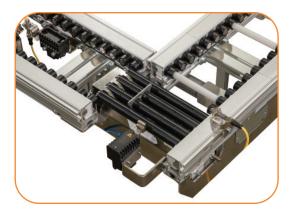
For detailed module spacing, see pages 41-42. For pneumatic specifications, see page 40.

Note: Due to the wide variety of drive setups and applications, point of installation guarding is the responsibility of the end user.

Note: Dimensions = mm (in)









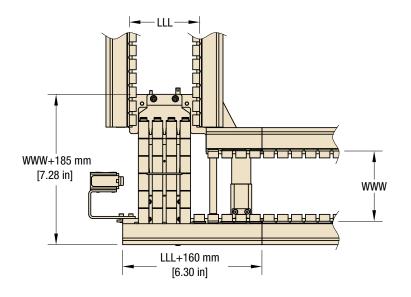
- Pneumatic pusher with integrated corner conveyor
- · Pallet sizes: see chart
- Load capacity: up to 16 kg (35 lbs) per pallet
- Pallet pusher across transfer roller conveyor. No height change required.
- Includes ERT150 Series Transfer Conveyor
 - o 24 mm (0.95 in) diameter rollers on 32 mm (1.26 in) centers
 - o Load capacity: up to 16 kg (35 lbs) per pallet
 - Up to 37 m/min (121 ft/min)
 - o Slip rollers
 - Brushless DC gearmotor and controller. See page 28-29 for specifications
- 20 mm diameter pneumatic pusher cylinder provided. Includes air fittings with integrated flow controls for ¼ inch push in air line. Solenoid valves and plumbing not provided
- Pusher cylinder includes magnetic piston for position sensing.
 Sensors not provided.

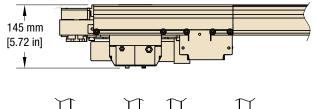
Pallet Sizes							
Length (mm)							
		160	200	240	280	320	
	160	X		X			
Ē	200		Х				
Width (mm)	240	Х		X		Х	
Wid	280				Χ		
	320			X		Х	

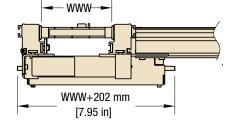


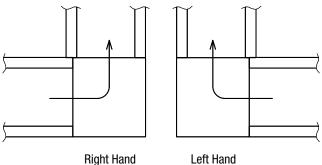
STANDARD FEATURE: Break-Away Pusher Blade for operator safety

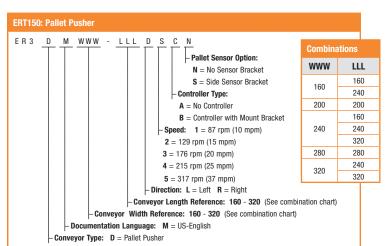


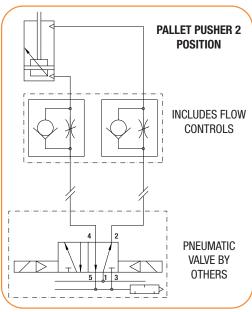












PNEUMATIC SCHEMATICS

For detailed module spacing, pages 41-42. For pneumatic specifications, see page 40.

Note: Due to the wide variety of drive setups and applications, point of installation guarding is the responsibility of the end user.

Note: Dimensions = mm (in)









- · Pneumatic lifts from center of conveyor
- Pneumatic rotation with configurable 90 or 180 degree position
- Includes break-away magnetic coupled rotation plate for product safety
- · Pallet sizes: see chart
- Rotation angle: 90 or 180 degrees
 - o 90 degrees must be square pallets
 - o Rectangular pallet sizes must be 180 degrees
- Lift Capacity: up to 16 kg (35 lbs)
- 40 mm diameter pneumatic lift cylinder. Includes air fittings with integrated flow controls for ¼ inch push in air line. Solenoid valves and plumbing not provided
- 21 mm diameter pneumatic rotary actuator
- Lift cylinder includes magnetic piston for position sensing.
 Sensors not provided. Compatible with 4 mm C-slot sensors.
- Slip Roller base conveyors requires cushioned or non-cushioned pallet stop. See page 25-27
- · Optional guarding package available

Pallet Sizes								
				Length (mm)				
		160	200	240	280	320		
	160	Х		Х				
Œ	200		Х					
Width (mm)	240	Х		Х		Х		
Wid	280				X			
	320			Х		Х		



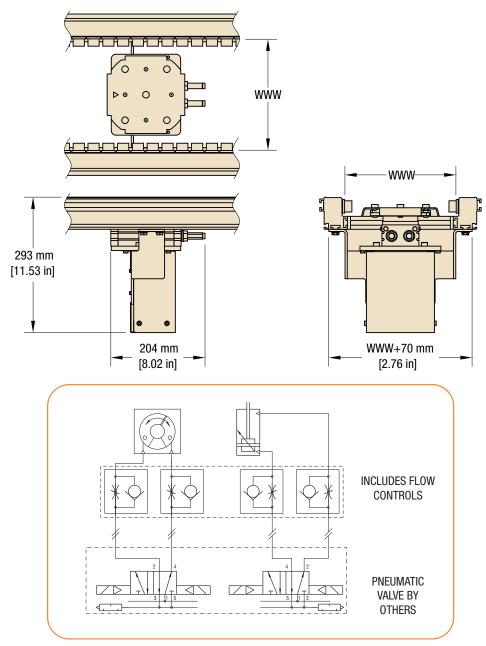
OPTIONAL:
Guarding Package



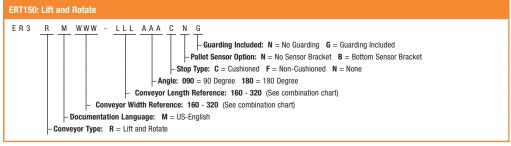
STANDARD FEATURE: Breakaway Top Plate for operator safety







PNEUMATIC SCHEMATIC



Combinations					
www	LLL				
160	160				
100	240				
200	200				
	160				
240	240				
	320				
280	280				
000	240				
320	320				

Only square combinations are valid for 90 degree.

For detailed module spacing, pages 41-42. For pneumatic specifications, see page 40.

Note: Due to the wide variety of drive setups and applications, point of installation guarding is the responsibility of the end user. **Note:** Dimensions = mm (in)









- 2 position lift and transfer
 - o Up position transfers pallet on/off transverse conveyor
 - Down position lowers the transfer conveyor below feed conveyor
 - Indexing motor on feed conveyor is used to position incoming pallet for sending applications, eliminating pallet stops
- · Pallet sizes: see chart
- Lift Capacity: up to 18 kg (40 lbs)
- Pallet transfers over conveyor side frame. 10 mm (0.40 in) height change required
- Includes ERT150 Series Transfer Conveyor
 - o 24 mm (0.95 in) diameter rollers on 32 mm (1.26 in) centers
 - o Load capacity: up to 18.2 kg (40 lbs) per pallet
 - Up to 37 m/min (121 ft/min)
 - o Driven rollers
 - Brushless DC gearmotor and controller. See page 28-29 for specifications
 - o Bi-directional and reversing
- Lift and transfer 240 mm wide and smaller include infeed conveyor.
 See page 24 for detail layouts.
- 40 mm diameter pneumatic lift cylinder. Includes air fittings with integrated flow controls for ¼ inch push in air line. Solenoid valves and plumbing not provided
- Lift cylinder includes magnetic piston for position sensing. Sensors not provided. Compatible with 4 mm C-slot sensors.
- Optional guarding package available

Pallet Sizes								
	Length (mm)							
		160	200	240	280	320		
	160	Х		Х				
Œ.	200		Х					
Width (mm)	240	Х		Х		Х		
Wid	280				Χ			
	320			Х		Х		

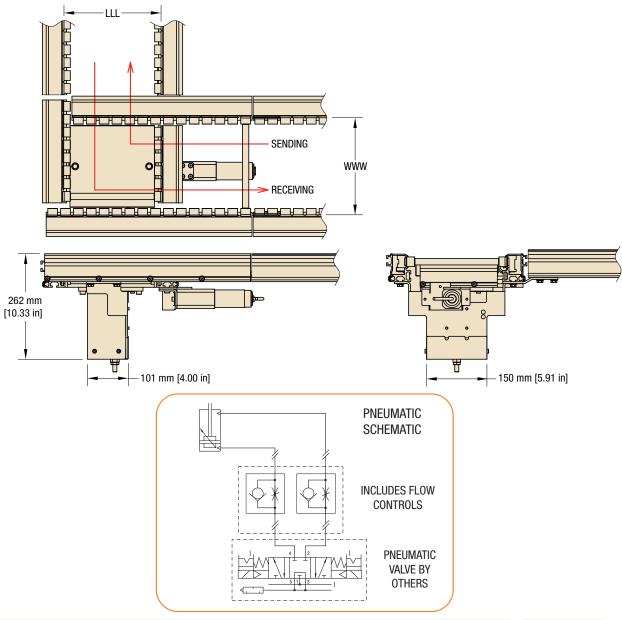


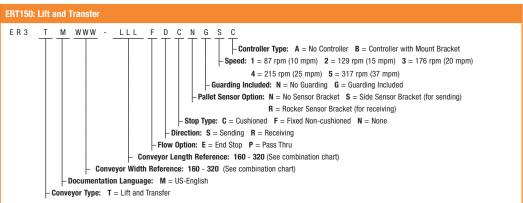
OPTIONAL:

Guarding Package and Pallet Sensor









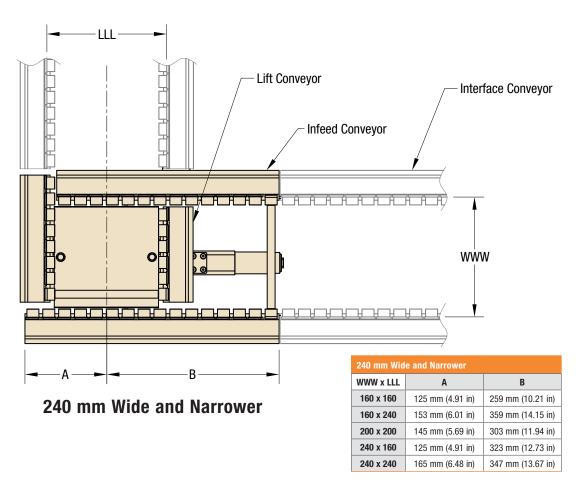
Combinations			
WWW LLL			
160	160		
	240		
200	200		
	160		
240	240		
	320		
280	280		
320	240		
	320		

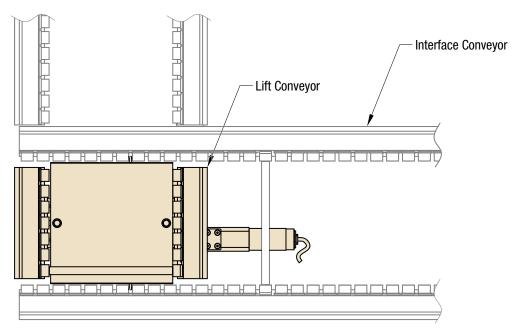
For detailed module spacing, pages 41-42. For pneumatic specifications, see page 40.

Note: Due to the wide variety of drive setups and applications, point of installation guarding is the responsibility of the end user. **Note:** Dimensions = mm (in)





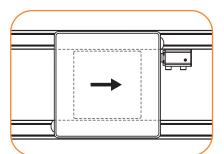




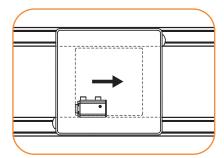
280 mm Wide and Wider







Stop Located After Pallet



Stop Located Inside Pallet

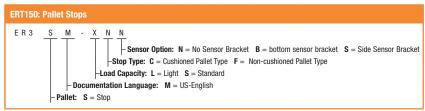


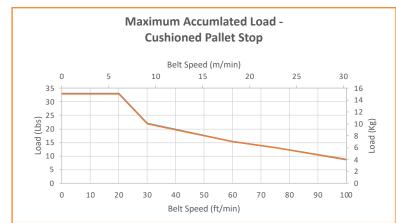
Light Load Pallet Stop – Cushioned

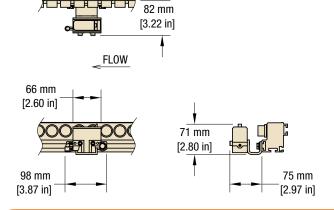
Cushioned pallet stop for traffic control. Stops one or more pallets at the specified location on the conveyor. Cushioned deceleration of the first pallet into the stopped location, guarding against vibration of sensitive payloads. Accumulated pallets are not cushioned. Air pressure disengages the stop allowing pallets to pass until the pressure is released. A spring return re-engages the pallet stop and resets the cushion.

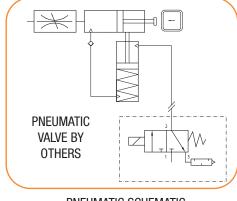
Specifications

- Maximum Load: 15 kg (33 lbs) accumulated
- Pneumatically activated, spring return
- Stops the pallet on the leading or trailing edge
- . Mounts on the inside of the conveyor rail
- · Airline can be mounted on the front or back of the stop
- Includes: stop, mounting hardware, and fittings for 6.3 mm (1/4 in) push in air line
- Optional vertical or side mounted sensor bracket. See page 33









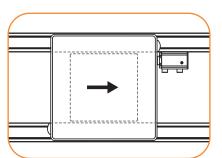
PNEUMATIC SCHEMATIC

For pneumatic specifications, see page 40.

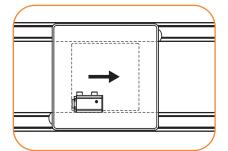




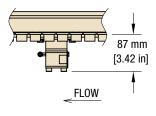


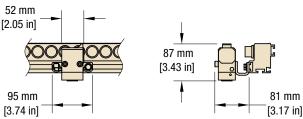


Stop Located After Pallet



Stop Located Inside Pallet





Note: Due to the wide variety of drive setups and applications, point of installation guarding is the responsibility of the end user. Note: Dimensions = mm (in)

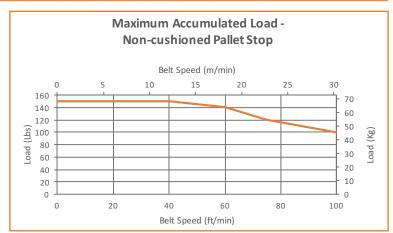
Standard Load Pallet Stop - Non-cushioned

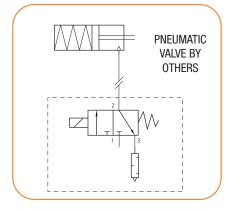
Non-cushioned pallet stop for traffic control. Stops one or more pallets at the specified location on the conveyor. Air pressure disengages the stop allowing pallets to pass until the pressure is released. A spring return re-engages the pallet stop.

Specifications

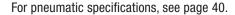
- Maximum Load: 68 kg (150 lbs) accumulated
- · Pneumatically activated, spring return
- Mounts on the inside of the conveyor rail
- · Airline can be mounted on the front or back of the stop
- Includes: stop, mounting hardware, and fittings for 6.3 mm (1/4 in) push in air line
- Optional vertical or side mounted sensor bracket. See page 33





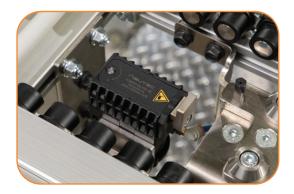


PNEUMATIC SCHEMATIC









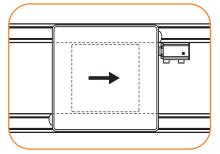
Standard Load Pallet Stop - Cushioned

Cushioned pallet stop for traffic control. Stops one or more pallets at the specified location on the conveyor. Cushioned deceleration of the first pallet into the stopped location, guarding against vibration of sensitive payloads. Accumulated pallets are not cushioned. Air pressure disengages the stop allowing pallets to pass until the pressure is released. A spring return re-engages the pallet stop and resets the cushion.

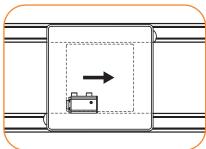
Specifications

- Maximum Load: 55 kg (120 lbs) accumulated
- Pneumatically activated, spring return
- Stops the pallet on the leading or trailing edge
- . Mounts on the inside of the conveyor rail
- Airline can be mounted on the front or back of the stop
- Includes: stop, mounting hardware, and fittings for 6.3 mm (1/4 in) push in air line
- Optional vertical or side mounted sensor bracket. See page 33

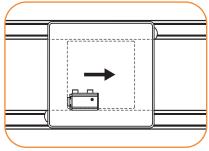
- Sensor Option: N = No Sensor Bracket B = bottom sensor bracket S = Side Sensor Bracket



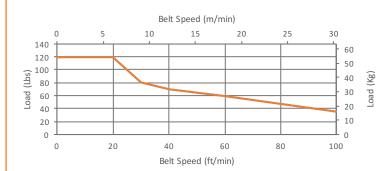
Stop Located After Pallet

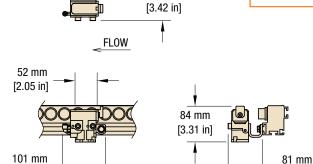


Stop Located Inside Pallet





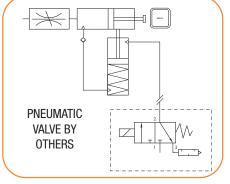




87 mm

Note: Due to the wide variety of drive setups and applications, point of installation guarding is the responsibility of the end user. Note: Dimensions = mm (in)

E R 3



PNEUMATIC SCHEMATIC

For pneumatic specifications, see page 40.

[3.17 in]



[3.98 in]

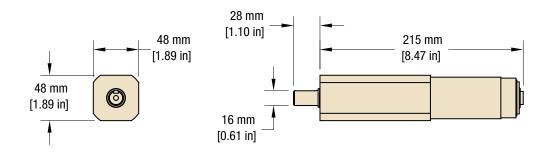


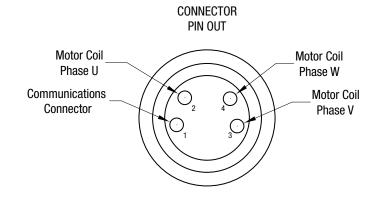


- Brushless DC Gearmotor
- 50 watt
- 24 VDC
- IP 54 ingress rating
- · Aluminum body, steel shaft
- Certifications
 - o ETL/UL certified
 - $\circ \ \text{CE certified} \\$
 - o RoHS and REACH compliant
- Temperature rating: -10° to 40° C (14° to 104° F)
- M8-4 Pin connector with 1 m long cable

Part Number*	Maximum Speed m/min (ft/min)	Gear Ratio	Shaft Speed Rev/min	Rated Torque Nm (in-lb)	Starting Torque Nm (in-lb)	Rated Current amps	Starting current amps
826-984	10.3 (33.7)	67.22	8.6 to 86.7	4.4 (39.1)	24 (215)	2.5	3.0
826-985	15.2 (50)	45	12.8 to 129	2.9 (26.2)	16 (145)	2.5	3.0
826-986	20.8 (68.2)	33	17.5 to 176	2.2 (19.2)	12 (106)	2.5	3.0
826-987	25.4 (83.3)	27	21.3 to 215	1.8 (15.7)	9.8 (87)	2.5	3.0
826-988	37.4 (122.8)	18.33	31.5 to 317	1.2 (10.6)	6.7 (59)	2.5	3.0

^{*}Note: Gearmotor is provided with conveyor part number and not required to be ordered separately.





Note: Dimensions = mm (in)

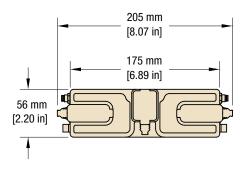


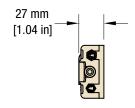


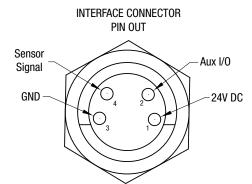


Electrical Specifications	
Voltage Range	18-28 VDC
Rated Current	5.2 amps, for 2 gearmotors
Starting Current	6.0 amps, for 2 gearmotors
Operating ambient temperature	-10 to 40 C (14 to 104F)

Part Number 4003	396
------------------	-----

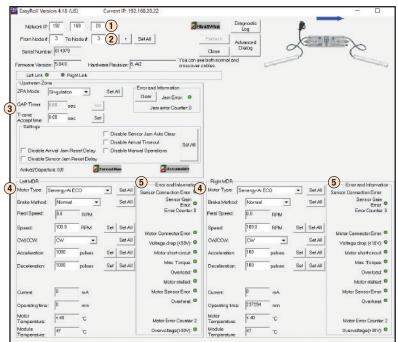






- · Brushless DC Ethernet motor control
- Control can be used as motor drive and/or remote I/O
- · Controls up to 2 gearmotors
- Controls up to 4 inputs
- Built in zero pressure accumulation logic for zoning applications
- ConveyLINX software is used to set up controller and adjust control parameters*
- IP 54 ingress rating
- Certifications
 - UL recognized to UL/eUL standard 61800-5-1
 - o CAN.CSA to standards: C22.2 NO.61010-1
 - o CE certified
 - o RoHS and REACH compliant
- Connectivity
 - o Ethernet IP
 - o Modbus TCP
 - PROFINET

ConveyLINX Software*



- 1. Configure Network IP
- 2. Configure Nodes on Network
- 3. Upstream / Downstream Gearmotor, select mode
- Upstream / Downstream gearmotor, select motor speed, acceleration/ deceleration, etc.
- 5. Error Indicators for connection and performance

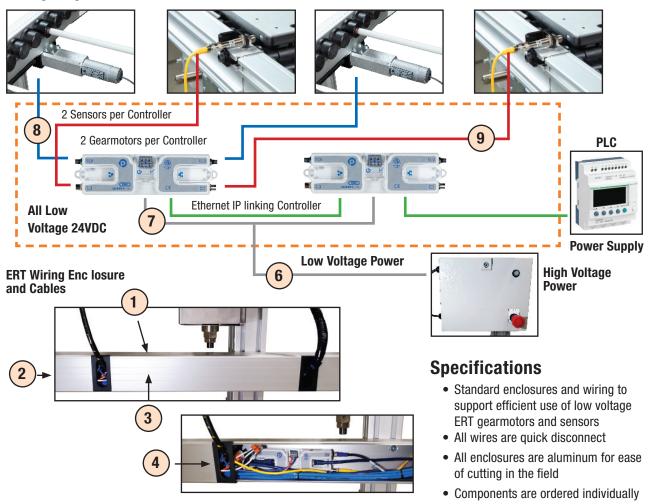
*ConveyLINX Software provided by Pulse Roller, see www.pulseroller.com for details.

Note: Due to the wide variety of drive setups and applications, point of installation guarding is the responsibility of the end user. **Note:** Dimensions = mm (in)





Wiring Diagram:



Item	Part Number	Description	Specification
1	ERTW1-CE3000	ERT Motor Controller Enclosure, 80 mm x 80 mm x 3000 mm long, Aluminum	Aluminum Extruded Enclosure, requires customer to cut to length and add mounting holes
2	ERTW1-ECX	ERT Motor Controller Enclosure End Cap. Where $X=1$ for closed, $X=2$ for with hole for wiring pass through	Plastic end cap for closing motor controller closure. Includes mounting screws
3	ERTW1-CV3000	ERT Motor Controller Enclosure Cover 3000 mm long, Aluminum	Aluminum Extruded Cover, requires customer to cut to length. Snaps into main enclosure for tight fit
4	ERTW1-CBE1	ERT Motor Controller Enclosure Cable Entry Single Hole	Plastic 2-piece cover providing cable entry to enclosure
5	ERTW1-MBXXXX	ERT Motor Controller Enclosure Mounting Bracket Where XXXX = length of support arm. 0100, 0200, 0300, 0400 mm long	Mounting bracket including hardware. Mounts to conveyor cross members and automation module support arms Maximum distance between supports = 2000 mm.
6	ERTCB1-PCXXXX	ERT DC Power Supply to Enclosure Cable XXXX mm long. Where XXXX = length in mm. 1000, 2000, 3000, 4000 mm length available.	12 Ga. 3 wire cable. Includes re-usable clamp style wire connectors to splice up to 4 controllers
7	ERTCB1-LCXXXX	ERT Controller Linking Cable XXXX mm long. Where XXXX = length in mm. 1000, 2000, 3000 mm length available.	8 Ga. 3 wire cable
8	ERTCB1-MCXXXX	ERT Controller to Motor Extension Cable XXXX mm long. Where XXXX = length in mm. 2000, 3000 mm length available.	24 Ga. 4 wire cable. Includes M-8 male/female quick disconnect connector on both ends of cable
9	ERTCB1-SCXXXX	ERT Controller to Sensor Cable XXXX mm long. Where XXXX = length in mm. 2000, 3000, 4000 mm length available.	24 Ga. 4 wire cable. Includes M-8 male/female disconnect connector on both ends of cable



Multiple Conveyor Power Supply



Outside

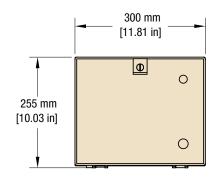


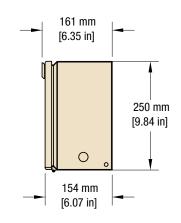
Inside

Specifications

- Provides 24 VDC power to gearmotor controllers
- 20 AMP output can power up to 4 controllers
- · Recommended to be placed near controller on conveyor line
- IP66 painted steel enclosure
- · Panel mounted pull-to-release on/off button with indicator light
- See page 30 for low voltage cable to controllers
- · High voltage wiring by customer

Part Number	Input Volts	Input Phase	Input H ₃	Input Amps	Output Volts	Output Amps
ERTPS1-112D-20A	110	1	60	4.5	24 VDC	20
ERTPS1-122D-20A	220	1	60	2.3	24 VDC	20
ERTPS1-232D-20A	230	3	60	2.2	24 VDC	20
ERTPS1-432D-20A	460	3	60	1.1	24 VDC	20





Single Conveyor Power Supply



Specifications

- · Provides 24 VDC power to gearmotor controller
- 5 AMP output can power one controller
- 115V, 1 Phase, 60 hz input
- · RoHS, REACH certified
- . UL, CUL and CE approved
- · Black plastic enclosure

Part Number

167 mm [6.57 in] 35 mm [1.40 in]

400386





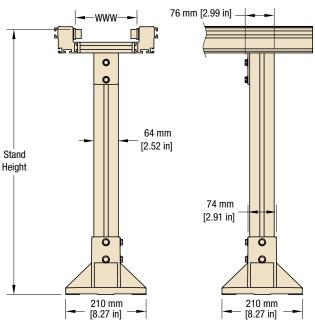


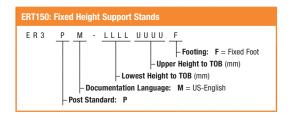


Fixed Height Support Stands

- 300 mm (11.81 in) minimum TOB height
- 2580 mm (101.6 in) maximum TOB height
- Aluminum construction with T-slot mounting for bolt on accessories and structure
- Adjustment range is ±40 mm (1.57 in)

Stand Height Chart					
Stand Height	260 – 340 mm (10.2 – 13.4 in)	40 mm (1.57 in) increments up to	2540 – 2620 mm (100 - 103 in)		
Part Number Reference	02600340	0040 increments up to	25402620		

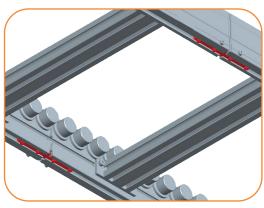




Note: Due to the wide variety of conveyor and stand options along with possible configurations, stability of the final setup is the responsibility of the end user.

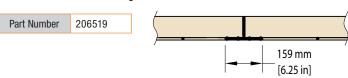
Note: Due to the wide variety of drive setups and applications, point of installation guarding is the responsibility of the end user. Note: Dimensions = mm (in)

Conveyor Tie Bracket



Specifications

- · Tie bracket for connecting conveyors inline
- Can be used in bottom or inside T-slot.
 Do not use with T-slot cover
- Includes a pair of tie plate assemblies
- Includes all mounting hardware





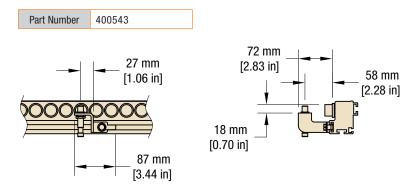


Pallet Sensor Bracket, Bottom Sensing



Specifications

- Standard mounting for 12 mm barrel proximity sensors
- · Sensor faces upward, sensing pallet pick-up on the bottom of pallet
- Requires a minimum of 25 mm (1 in) long threaded portion on sensor
- Includes all mounting hardware
- Proximity sensor with 4 mm minimum sensory range recommended



Pallet Sensor Bracket, Side Sensing

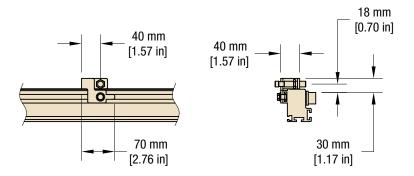


Specifications

- Standard mounting for 12 mm barrel proximity sensors
- Sensor faces inward, sensing pallet pick-up on outside of pallet
- Requires a minimum of 25 mm (1 in) long threaded portion on sensor
- Includes all mounting hardware
- Proximity sensor with 4 mm minimum sensory range recommended



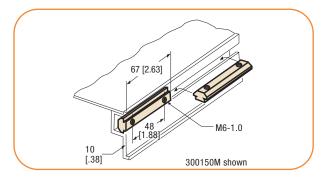


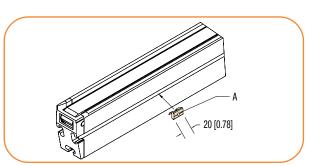


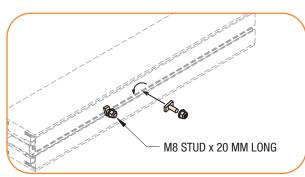


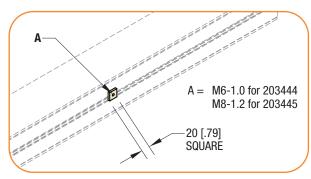


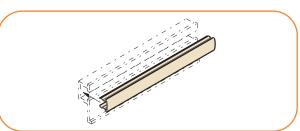
T-slot Accessories











T-Bars

- Mounts in T-slot to attach heavy accessories
- · Fits conveyor and stands

Part Number

639971M (1 hole T-bar, M6-1.0, .75 in long)
202390M (1 hole T-bar, M8-1.25, .63 in long)
643874M (0.75 in centers, 2 hole T-bar, M6-1.0, 1.5 in long)
200626M (0.875 in centers, 2 hole T-bar, M6-1.0, 1.62 in long)
200830M (1.0 in centers, 2 hole T-bar, M6-1.0, 1.75" long)
639717M (1.25 in centers, 2 hole T-bar, M6-1.0, 2.0" long)
300150M (1.875 in centers, 2 hole T-bar, M6-1.0, 2.62 in long)
300536M (2.125 in centers, 2 hole T-bar, M6-1.0, 2.88 in long)

Spring Nuts

- · For mounting accessories to conveyor
- . Spring retains position in T-slot
- 20 mm (0.78 in) long

Part Number	205504 M4 x 0.7 205505 M5 x 0.8 205506 M6 x 1.0 205508 M8 x 1.25
	20000 WIO X 1.20

T-Bolt Hardware

- · For mounting accessories to conveyor
- Twist in T-Bolt for mounting accessories
- M8-1.25 male threaded post
- (2) lengths available; 20 mm long and 35 mm long
- 20 mm long used to mount up to 0.25 in plate thickness
- 35 mm long used to mount up to 0.85 in plate thickness
- Provided in a package of 5 T-Bolts and flanged locknuts

Part Number 203446 (20 mm long) 203447 (35 mm long)

Slide In Square Nuts

- · For mounting accessories to conveyor
- Must be slid in at section break
- (2) thread sizes available: M6-1.0 or M8-1.25
- · Provided in a package of 5 nuts

Part Number 203444 (M6-1.0) 203445 (M8-1.25)

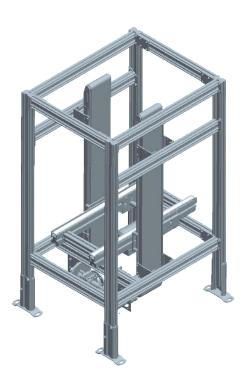
T-Slot Cover

- Snaps into conveyor and aluminum stand T-slots
- · Black plastic extrusion
- · Can be trimmed to fit

Part Number 645656P (Per 305 mm (1 ft) of length)







Vertical Transfer Unit (Elevator)

Vertical Transfer Units raise or lower a pallet between two different levels allowing for over/under layouts or transferring pallets over aisles

- Includes Precision Move conveyor to shuttle pallets in and out of the Vertical Transfer Unit
- Transfers standard and custom pallet sizes
- Up to 91 kg (200 lbs) lift capacity
- Minimum Height TOB: 305 mm (12 in)
- Maximum height TOB 3050 mm (120 in)
- Transfer one or more pallet(s) per cycle
- · AC VFD rated gearmotor driven lift and shuttle
- · Includes Lexan guarding
- · Includes proximity sensor brackets for pallet and lift position detection
- Available as a complete package including automation controls







Regulatory Approvals:

Conveyors:

All Dorner ERT150 standard conveyors are CE approved. CE approval follows the provisions of the following directives; Machine Directive 2006/42/EC, EU Low Voltage Directive 2006/95/EC, and EMC Directive 2004/108/EC. All conveyors are marked with the CE symbol on the Dorner serial number tag located on the conveyor frame. Contact the factory for the CE Declaration of Conformity.

All Dorner ERT150 standard conveyors (not including gearmotors and controllers) are designed and manufactured in accordance with the restrictions defined in the "Restriction of Hazardous Substances" directive, citation 2015/863/EU, commonly known as RoHS. All conveyors are marked with the RoHS symbols on the Dorner serial number tag located on the conveyor frame.

Gearmotors and Controllers:

All Dorner ERT150 gearmotors and controllers carry one or more of the following approvals. Products are not covered by each approval. Please see the appropriate part number on the gearmotor and controller charts located in this manual. In addition, regulatory symbols are located on the product information tags located on the product.

CE	CE marking on a product is a manufacturer's declaration that the product complies with the essential requirements of the relevant European health, safety and environmental protection legislation, in practice by the Product Directives. CE Marking on a product ensures the free movement of the product within the European Union (EU).
RoHS	This directive restricts (with exceptions) the use of six hazardous materials in the manufacture of various types of electronic and electrical equipment. It is closely linked with the Waste Electrical and Electronic Equipment Directive (WEEE) 2002/96/EC which sets collection, recycling and recovery targets for electrical goods and is part of a legislative initiative to solve the problem of huge amounts of toxic e-waste.
A 1®	The UL Recognized Component mark is for products intended to be installed in another device, system or end product. This Recognized Component Mark is for the United States only. When a complete product or system containing UL Recognized Components is evaluated, the end-product evaluation process can be streamlined.
c Flu s	The UL Recognized Component mark is for products intended to be installed in another device, system or end product. This Recognized Component Mark is for the United States and Canada. When a complete product or system containing UL Recognized Components is evaluated, the end-product evaluation process can be streamlined.
€ P®	CSA International (Canadian Standards Association), is a provider of product testing and certification services for electrical, mechanical, plumbing, gas and a variety of other products. Recognized in the U.S., Canada and around the world, CSA certification marks indicate that a product, process or service has been tested to a Canadian or U.S. standard and it meets the requirements of an applicable CSA standard or another recognized document used as a basis for certification.
c U L us	The UL Listing Mark means UL found that representative product samples met UL's safety requirements. These requirements are primarily based on UL's own published standards for safety. The C-UL-US Mark indicates compliance with both Canadian and U.S. requirements. The products with this type of Mark have been evaluated to Canadian safety requirements and U.S. safety requirements.





Cleanroom Certifications:

ERT150 Conveyors are often used in Cleanroom applications where the generation of particulates from the conveyor are a concern. In these applications the correct installation and application of the conveyor is critical to the proper running of the conveyor and minimizing the dust generated by the conveyor.

ERT150 Conveyors are designed and constructed to be used in Cleanroom environments. The following ERT150 Series products has gone through third party testing and certification and is certified for use in ISO Standard 14644-1:2015 Class 4 and Federal Standard 209 Class 10 Cleanroom applications.

Contact the factory for a copy of the certification.



TUV Tested and Approved for Cleanroom Class 4 Certification.





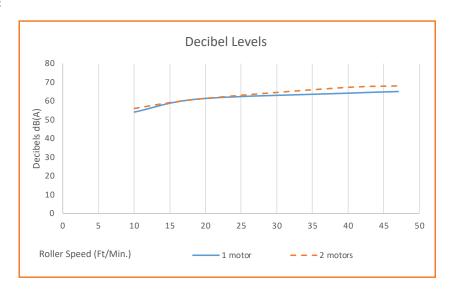


Conveyor Noise Level (Decibel Ratings)

The actual noise level generated by the conveyor depends on several factors: the installation configuration, the product running on the conveyor, the surrounding equipment, the conveyor options and belt speed. The noise level generated by the conveyor is typically less than the general noise level of factory equipment.

The following charts provide basic decibel ratings for a typical conveyor arrangements.

ERT150 Conveyors:







Calculating Conveyor Belt Speed

ERT150 Conveyors:

To calculate the conveyor belt speed you need to know the following factors:

• Roller diameter: 24 mm (0.95 in)

RPM of gearmotor

Note: All gearing in the ERT150 conveyor is 1.56:1 ratio (42 tooth/27 tooth)

Belt Speed:

(ft/min) = (Drive roller diameter/12)*(3.14)*(RPM of gearmotor)*(1.56)(m/min) = (Drive roller diameter, mm/1000)*(3.14)*(RPM of gearmotor)*(1.56)

Example: ERT150 Conveyor and gearmotor. The gearmotor is a 33:1 ratio with 176 rpm output.

Belt Speed (ft/min) = (0.95/12)*(3.14)*(176)*(1.56)

Belt speed (ft/min) = 69 ft/min

Calculating Conveyor Load capacity

There are several factor(s) that effect the overall conveyor load of the ERT150 conveyor. These include:

- · Conveyor size and configuration
- · Conveyor speed
- Application temperature
- Product accumulation
- Number of starts and stops per hour

Located online at www.dornerconveyors.com is the Dorner conveyor configuration tool, DTools. This tool allows you to configure your conveyor layout and determine the maximum load capacity for the conveyor. It is suggested that this program be used to calculate the conveyor load as the calculation is quite complicated. This configuration program however does not take into account temperature, dirty conditions, and conveyor starts and stops. If these conditions are part of your application please use the load reducing factors as shown below.

Maximum Load = (Load from DTools)(Temperature Factor)(Start/Stop Factor)

Temperature Factor				
Ambient temperature can negatively affect the capacity of the conveyor.				
Temperature F Temperature C Temperature Factor				
-4	-20	1.0		
32	0	1.0		
68	20	1.0		
104	40	0.9		
140	60	0.8		

Start / Stop Factor

Frequent Start / Stops of the conveyor can negatively affect the capacity of the conveyor. All start / stop applications must use a soft start mechanism such as a Frequency Inverter with a 1 second acceleration cycle.

Application Condition	Start / Stop Factor
Continuous Run or 1 start/stop per hour	1.0
Maximum 10 starts/stop per hour	0.83
Maximum 30 starts/stop per hour	0.70
Greater than 30 starts/stop per hour	0.62





ERT Pallet Weights kg (lbs)

ERT150 Pallet Weights						
Dallat Middle ()	Dollat Longth (mm)	1/4 in Alum Plate		3/8 in Alum Plate		
Pallet Width (mm)	Pallet Length (mm)	kg.	lbs.	kg.	lbs.	
160	160	1	2.1	1.2	2.6	
160	240	1.2	2.7	1.5	3.4	
200	200	1.2	2.7	1.6	3.5	
240	160	1.2	2.7	1.5	3.4	
240	240	1.6	3.6	2.1	4.7	
240	320	2	4.5	2.7	6	
280	280	2	4.5	2.7	6	
320	240	2	4.5	2.7	6	
320	320	2.5	5.6	3.5	7.6	

Automation Modules – Pneumatic Specifications

Devise	Action	Bore Diameter	Stroke	Return Type	Force per Psi	Sensor Compatible	Fitting Tap Size	Fitting Tube Size
Lift & Locate	Lift cylinder	40 mm (1.6 in)	40 mm (1.6 in)	Pneumatic	1.9 lb	Yes	1/8 NPT	1/4 inch
Lift & Transfer	Lift cylinder	40 mm (1.6 in)	40 mm (1.6 in)	Pneumatic	1.9 lb	Yes	1/8 NPT	1/4 inch
Lift & Rotate	Lift cylinder, 320 to 400mm wide	40 mm (1.6 in)	40 mm (1.6 in)	Pneumatic	1.9 lb	Yes	1/8 NPT	1/4 inch
	Rotary Actuator 160-200	21 mm (0.8 in)	40 mm (1.6 in)	Pneumatic	.33 in lb	Yes	1/8 NPT	1/4 inch
	Rotary Actuator 240-320	25 mm (1 in)	69 mm (2.7 in)	Pneumatic	.56 in lb	Yes	1/8 NPT	1/4 inch
Turn and Transfer	Rotary Actuator	32 mm (1.3 in)	93 mm (3.7 in)	Pneumatic	1.2 in lb	Yes	1/8 NPT	1/4 inch
	Pusher cylinder 160	20 mm (0.8 in)	200 mm (7.9 in)	Pneumatic	0.5 lb	Yes	1/8 NPT	1/4 inch
	Pusher cylinder 200	20 mm (0.8 in)	210 mm (8.3 in)	Pneumatic	0.5 lb	Yes	1/8 NPT	1/4 inch
Pallet Pusher	Pusher cylinder 240	20 mm (0.8 in)	250 mm (9.8 in)	Pneumatic	0.5 lb	Yes	1/8 NPT	1/4 inch
	Pusher cylinder 280	20 mm (0.8 in)	290 mm (11.4 in)	Pneumatic	0.5 lb	Yes	1/8 NPT	1/4 inch
	Pusher cylinder 320	20 mm (0.8 in)	330 mm (13 in)	Pneumatic	0.5 lb	Yes	1/8 NPT	1/4 inch
Pallet Stop, Cushioned	Light Load, Retract	35 mm (1.4 in)	9 mm (0.35 in)	Spring	n/a	No	GM5	1/4 inch
	Light Load, Retract	35 mm (1.4 in)	9 mm (0.35 in)	Spring	n/a	No	GM5	1/4 inch
Pallet Stop, Non-Cushioned	Standard Load, Retract	35 mm (1.4 in)	9 mm (0.35 in)	Spring	n/a	No	GM5	1/4 inch

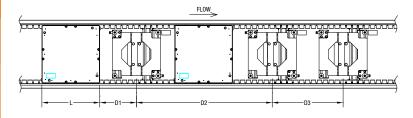
 ${\sf Dimensions} = {\sf mm} \; ({\sf in})$





ERT150 Module Spacing Guidelines

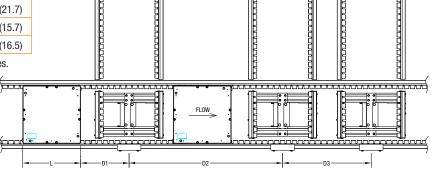
Pallet Stop to Lift & Locate to Lift & Locate Spacing						
Pallet Length	Distance Distance					
160 (6.3)	85 (3.3)	380 (15)	260 (10.2)			
200 (7.9)	105 (4.1)	420 (16.5)	300 (11.8)			
240 (9.4)	125 (4.9)	460 (18.1)	340 (13.4)			
280 (11)	145 (5.7)	500 (19.7)	380 (15)			
320 (12.6)	165 (6.5)	540 (21.3)	420 (16.5)			



Pallet Stop to Lift & Transfer to Lift & Transfer Spacing					
Pallet Length*	Distance Distance		Minimum Distance D3		
160 (6.3)**	260 (10.2)	560 (22)	400 (15.7)		
200 (7.9)**	310 (12.2)	670 (26.4)	460 (18.1)		
240 (9.4)**	350 (13.8)	840 (33.1)	550 (21.7)		
280 (11)	210 (8.3)	700 (27.6)	400 (15.7)		
320)12.6)	230 (9.1)	740 (29.1)	420 (16.5)		

*Note: Information provided is for square pallet sizes. For rectangular pallets, consult factory.

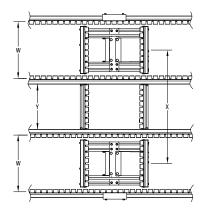
^{**}Note: 160 mm, 200 mm and 240 mm lift and transfers include integrated infeed conveyor.



Parallel Conveyors with Lift & Transfer					
Pallet Width*	Minimum Distance X	Minimum Distance Y			
160 (6.3)**	400 (15.7)	128 (5)			
200 (7.9)**	440 (17.3)	128 (5)			
240 (9.4)**	480 (18.9)	128 (5)			
280 (11)	520 (20.5)	128 (5)			
320 (12.6)	560 (22)	128 (5)			

*Note: Information provided is for square pallet sizes. For rectangular pallets, consult factory.

^{**}Note: 160 mm, 200 mm and 240 mm lift and transfers include integrated infeed conveyor.



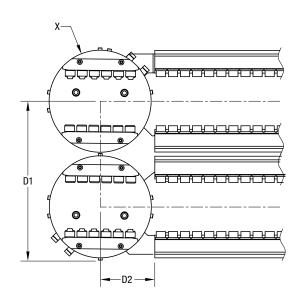
Dimensions = mm (in)



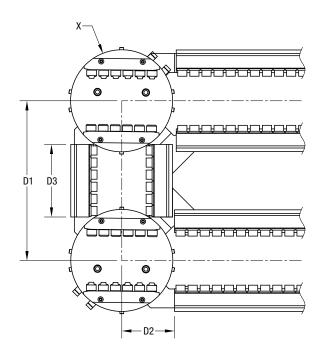


ERT150 Module Spacing Guidelines Continued

Parallel Conveyors with Two Turn & Transfer with No Transfer Conveyor					
Pallet Length (mm)	Pallet Length (mm)	Turn & Transfer Diameter X mm (in)	Distance D1 mm (in)	Distance D2 mm (in)	
160	160	270 (10.6)	280 (11)	140 (5.5)	
160	240	320 (12.6)	330 (13)	158 (6.2)	
200	200	320 (12.6)	330 (13)	158 (6.2)	
240	160	370 (14.6)	380 (15)	176 (6.9)	
240	240	370 (14.6)	380 (15)	176 (6.9)	
240	320	420 (16.5)	430 (16.9)	193 (7.6)	
280	280	420 (16.5)	430 (16.9)	193 (7.6)	
320	240	470 (18.5)	480 18.9)	211 (8.3)	
320	320	470 (18.5)	480 (18.9)	211 (8.3)	



Parallel Conveyors with Two Turn & Transfer with a Transfer Conveyor						
Pallet Length (mm)	Pallet Length (mm)	Turn & Transfer Diameter X mm (in)	Distance D1 minimum mm (in)	Distance D2 mm (in)	Distance D3 minimum mm (in)	
160	160	270 (10.6)	358 (14.1)	140 (5.5)	128 (5)	
160	240	320 (12.6)	394 (15.5)	158 (6.2)	128 (5)	
200	200	320 (12.6)	394 (15.5)	158 (6.2)	128 (5)	
240	160	370 (14.6)	430 (16.9)	176 (6.9)	128 (5)	
240	240	370 (14.6)	430 (16.9)	176 (6.9)	128 (5)	
240	320	420 (16.5)	464 (18.3)	193 (7.6)	128 (5)	
280	280	420 (16.5)	464 (18.3)	193 (7.6)	128 (5)	
320	240	470 (18.5)	500 (19.7)	211 (8.3)	128 (5)	
320	320	470 (18.5)	500 (19.7)	211 (8.3)	128 (5)	

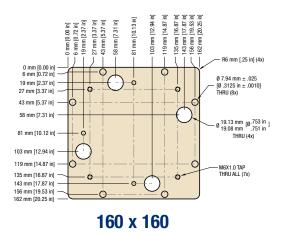


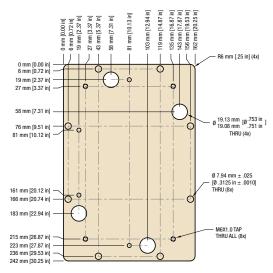




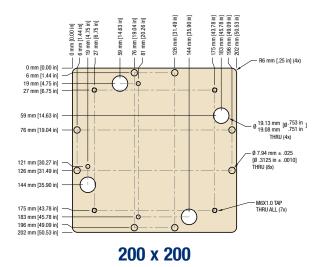
ERT150 Pallet Plate Details Dimensions

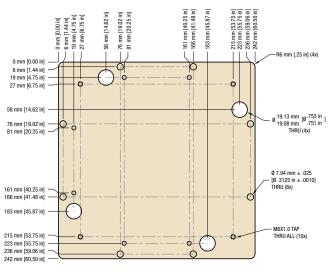
The following details are for standard square pallets only. For other size pallets contact Dorner.





160 x 240





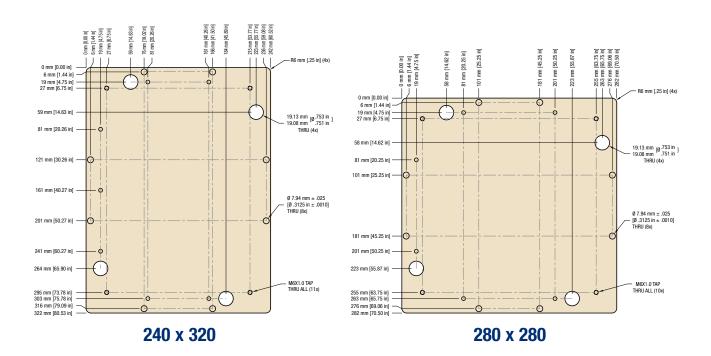
240 x 240

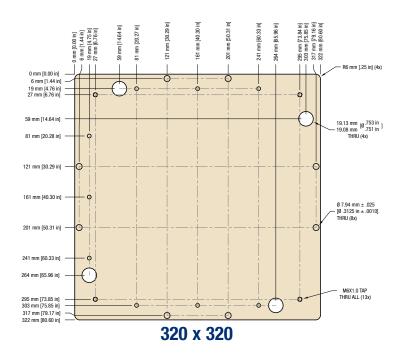




ERT150 Pallet Plate Details Dimensions Continued

The following details are for standard square pallets only. For other size pallets contact Dorner.







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

Loads & Speeds

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



Slip & Driven Rollers







Slip Roller

Slide Rail Options

Aluminum frame with two T-slot options



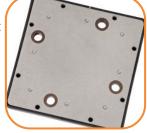




Flush Side Rail (Cleanroom)

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

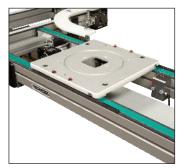


Industrial & Automation Conveyors

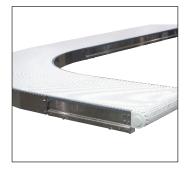








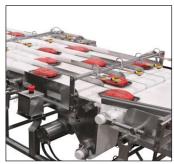
Sanitary Conveyors





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Transforming Conveyor Automation

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