ENGINEERING MANUAL



Fast & Simple to Use Online Configurator

Innovative Timing Belt Conveyor Design Industry Best Pallet Transfer System Stable & Durable Construction



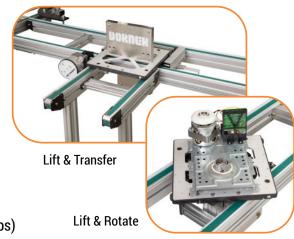
DualMcve

High Performance Dual Strand Timing Belt Pallet System



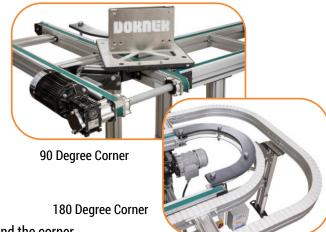
Innovative Modules

- Lift and Locate:
 - Standard vertical lift stop to ensure repeatable accuracy
 - Lift capacity roughly 2x pallet capacity at 60 psi
 - Accuracy of ± 0.13 mm (0.005 in)
- 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 leading edge and allows for tight parallel assembly lines
 - Uses 24VDC motors with digital on/off signals
 - Load capacities matches pallet sizes, up to 45 kgs (100 lbs)



Simple Powered Corner Modules

- 90/180 Degree Corners:
 - 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 DualMove Pallet System

Innovative Offering

- T10 timing belt provides maximum load capacity for conveyors
- 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

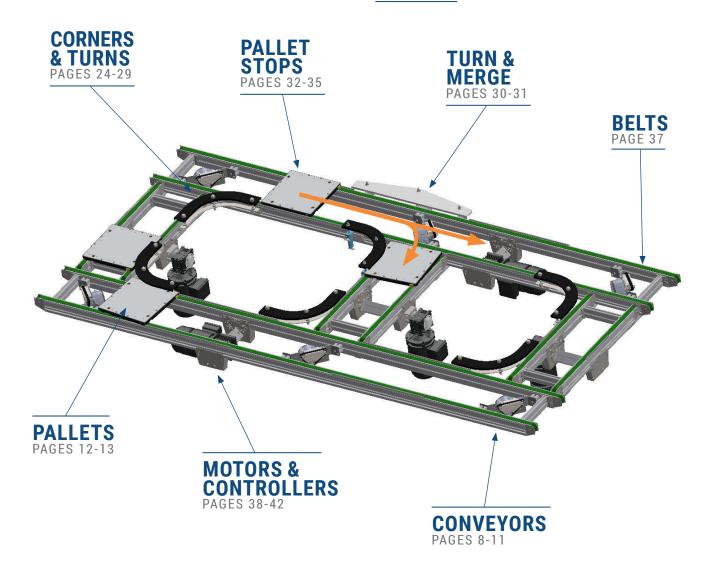
- Dorner's online configurator engineers simple to complex configurations in minutes.
- The industry leading tool delivers a complete 3D Assembly model for instant validation of fit





CONVEYOR FEATURES PAGES 4-5

EXAMPLE LAYOUTS
PAGES 6-7



LIFT & ROTATE
PAGES 22-23

LIFT & TRANSFER PAGES 19-21

LIFT & LOCATE PAGES 14-18

SUPPORT STANDS PAGE 43 ENGINEERED SOLUTIONS PAGES 36

ACCESSORIES
PAGES 44-47





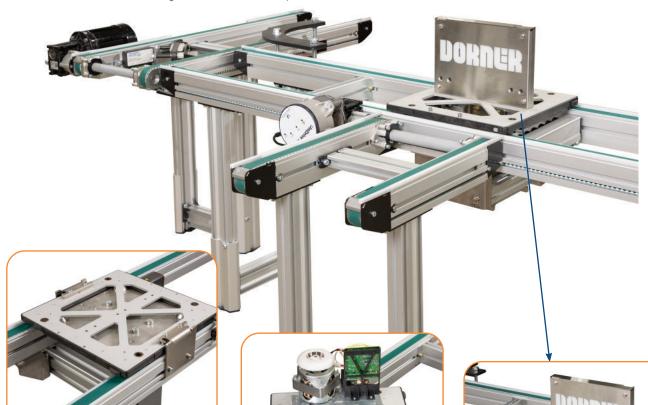
INNOVATIVE CORNERS

Cost effective method to keep product leading edge and move pallet around corners. Utilizes innovative pallet pin tracking system, available in heavy or standard load and 90 or 180 degrees.



MERGES & BYPASSES

Simple merge and bypass modules utilize the pin tracking system, with additional air cylinders and stops creating a cost effective way to control pallet traffic within a system.



LIFT AND LOCATES

Two distinct standard platforms to choose from depending on cost and accuracy needs. Standard lift modules are accurate to +/- 0.13 mm (0.005 in), and smaller low profile modules up to +/- 0.38 (0.015 in). Utilizing tapered pin on lift module and precision bushings on work pallet. Lift capacity exceeds pallet capacity by about 2x allowing pressing operations to be done directly on the module without additional supports.

LIFT AND ROTATE

Field configurable rotate units allows the product to change orientation. Air cylinders provide the actuation of the units, and breakaway magnetically couple plate supports the pallet as it rotates.



Transfer units utilize a 24VDC digitally controlled gearmotor for easy controls integration. The combination of small motor and air cylinder provides a small profile under the conveyor allowing more flexibility in system design.









CONVEYOR CONFIGURATIONS

Motor can be placed in a variety of locations providing best fit into the application. Mid-Drives systems can be built up to 7.5 meters (25 ft) long as standard or longer for custom systems, with motor options both inside or outside conveyor frame. End-Drive units are bi-directional and is a cost effective configuration for conveyors shorter than 3.8 meters (12.5 ft). A 24 volts brushless DC motor options provides a safe low voltage configuration with a high torque output, and compatible with several industry available DC controllers.

CONVEYOR CONSTRUCTION

Aluminum profile provides a light weight rigid conveyor with Universal T-Slots accepting a variety of industry available T-Nuts & T-Bolts. Making system integration easy by allowing sensors and system structure to bolt on the conveyor. Field removable pallet guide allows flexibility during installation and faster startups. Conveyor drives, pullies, and tensioning systems are completely built from metal parts and large 2 in bearings to provide a long lasting and robust system.







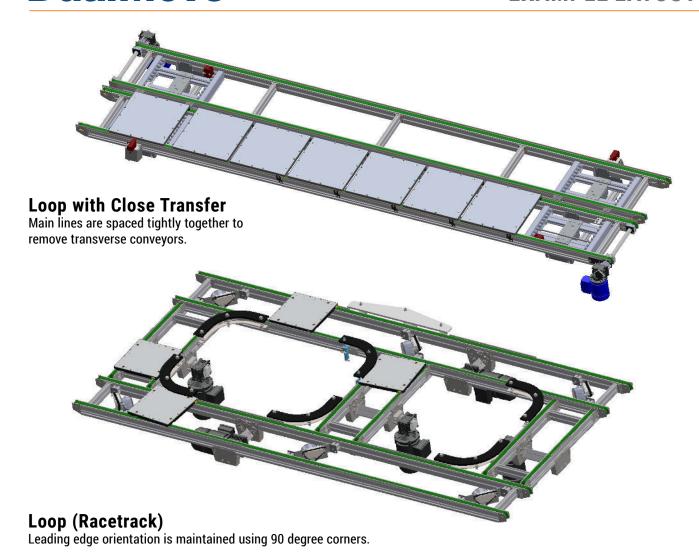
COMPATIBLE PALLET SIZES

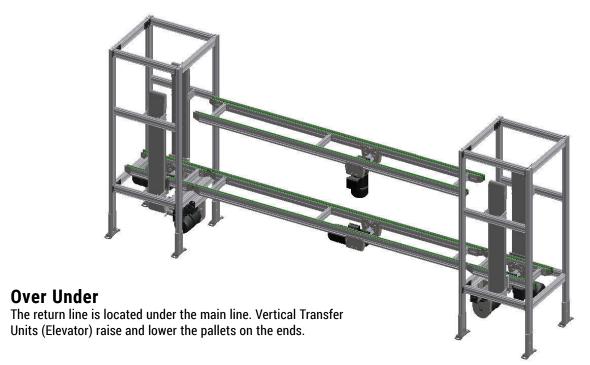
Pallets sizes and locational bushings compatible to in industry standard other Dorner pallet systems. A variety of options from fully assembled to kitted parts can be ordered to provide best solution for integration.

QUICK BELT CHANGE

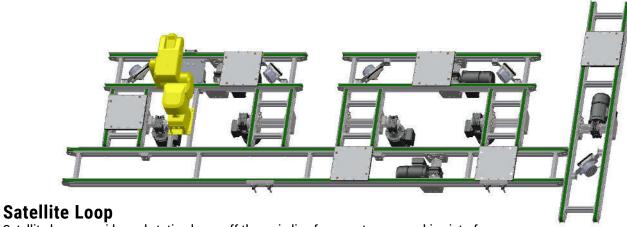
Innovative patent pending belt tensioning systems paired with an optional pinned spliced timing belt provides industry quickest belt change system. The single point tensioning system utilizes a rack & pinion system that can be adjusted with a single tool.



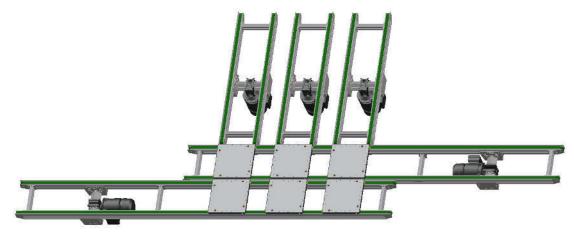








Satellite loops provide workstation loops off the main line for operators or machine interface.



Spur Line

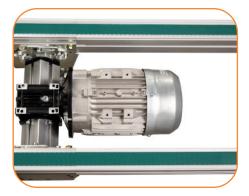
The product flow in this example is from right to left. The pallet travels along the upper main line then transfers into 1 of the 3 parallel operations on the vertical spur lines. When the operation is complete the spur line reverses direction and the pallet transfers over the upper main line onto the bottom main line for finished processing.



Heavy Load Loop

Tight radius turns maintain leading edge orientation while keeping the main lines closely spaced to reduce the overall footprint. Heavy load corners allow pallet accumulation in the corners.





In Frame Motor



Side Drive Motor

Specifications

- · 25 mm wide belting
- · Overall width:
 - · Width is defined by the pallet width
 - · Nominal widths (mm) 160, 240, 320, 400, 480, 640, and 800
- · Custom widths available in Dtools from 140-800 mm by 5mm increments.
- · Lengths: 500 to 7500 mm (20 in to 24.6 ft) long, in 5 mm increments
- Load Capacity: 569 kg (1250 lbs) non-accumulating, 284 kg (626 lbs) accumulated
- Belt speeds to 66 m/min (215 ft/min)
- · Bi-directional belt at full load capacity
- · Belts: T10 timing belts with steel cords
 - Medium Friction, Low Friction, and Static Conductive Low Friction available
- Drive Pulley: T10, 19 tooth, Pitch diameter 60.6 mm (2.386 in)
- 50.8 mm (2.0 in) diameter end rollers
- Mid Drive is available in any location along the conveyor rails starting at 250 mm (10 in) from each end
- Quick belt change design along with single point tensioning mechanism, allows changing of conveyor belt without removal of conveyor or automation devices
- Conveyor T-Slot located on bottom and both sides. Compatible with Dorner 2200 Series and FlexMove® T-Slot hardware along with select industry standard 10 mm slot hardware.



STANDARD FEATURE: Universal T-Slot Compatible with Industry Standard 10 mm hardware



STANDARD FEATURE: Interchangeable Low Side



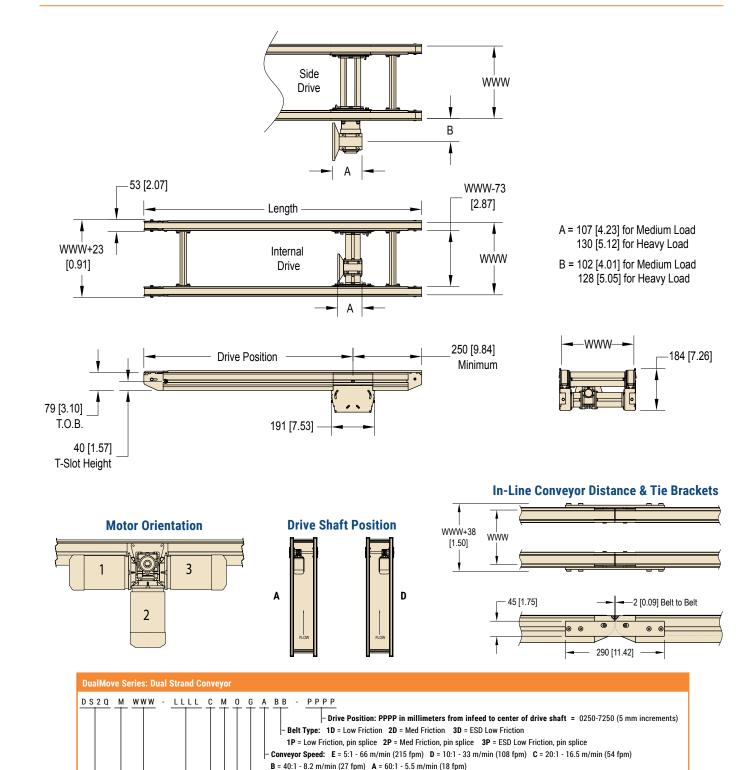
STANDARD FEATURE: Quick belt change without the removal of conveyor or accessories



STANDARD FEATURE: Tensioning Mechanism







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)

- Motor type: M = Medium load E-drive 42CZ head H = Heavy load E-Drive 56C head
- Motor Orientation: 1 = Horizontal (leading) 2 = Vertical (down) 3 = Horizontal (trailing)

- Drive Position: A = A Side D = D Side (motor in the center of conveyor for width 320 and lower)



- Drive type: C = Mid Drive with internal motor mount M = Mid Drive with side motor mount

Conveyor Length Reference: LLLL in millimeters 0500 - 7500 (in 5 mm increments)

Conveyor Width Reference: WWW in millimeters 140 - 800 (in 5 mm increments)

Documentation Language: M = US-English U = Europe English D = German F = French S = Spanish

- Conveyor Type: Dual Strand Pallet System, 25 mm Belt



Specifications

- · 25 mm wide belting
- · Overall width:
 - · Width is defined by the pallet width
 - Nominal widths (mm) 160, 240, 320, 400, 480, 640, and 800
- Custom widths available in Dtools from 140-800 mm by 5mm increments.
- · Lengths: 300 to 3800 mm (12 in to 12.5ft) long, in 5 mm increments
- Load Capacity: 365 kg (805 lbs) non-accumulating, 185 kg (408 lbs) accumulated
- Belt speeds to 66 m/min (215 ft/min)
- · Bi-directional belt at full load capacity
- · Belts: T10 timing belts with steel cords
 - Medium Friction, Low Friction, and Static Conductive Low and Medium Friction available
- Drive Pulley: T10, 19 tooth, Pitch diameter 60.6 mm (2.386 in)
- 50.8 mm (2.0 in) diameter end rollers
- Quick belt change design along with single point tensioning mechanism, allows changing of conveyor belt without removal of conveyor or automation devices
- Conveyor T-Slot located on bottom and both sides. Compatible with Dorner 2200 Series and FlexMove® T-Slot hardware along with select industry standard 10 mm slot hardware.



STANDARD FEATURE: Universal T-Slot Compatible with Industry Standard 10 mm hardware



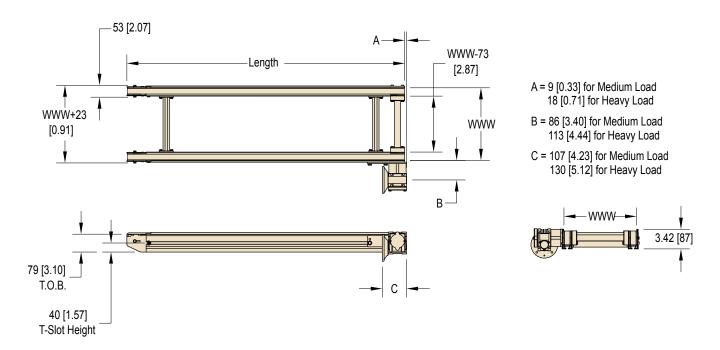
STANDARD FEATURE: Quick belt change without the removal of conveyor or accessories

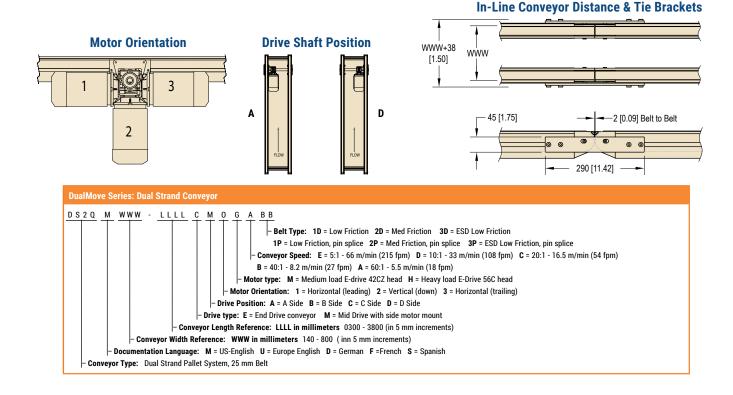


STANDARD FEATURE: Tensioning Mechanism

CONVEYOR END DRIVE











Specifications

- Pallet is dimensionally compatible with industry standards
- Pallet Base:
 - Anodized aluminum tool plate is standard (other materials available, contact factory)
 - Thicknesses of 4.8 to 12.7 mm (3/16 to 1/2 in)
- Pallet Skirt Material: Electrostatic Dissipative HPDE
- · Includes (4) hardened bushings for Lift and Locate
- Optional Ball Bearing Pin Tracking used for pallet tracking at corners
- · Plated Steel Proximity Sensor pick-up on bottom and side of pallet
- Optional pallet bumpers for noise and impact reduction
- · Custom widths available
- Center of gravity of the combined payload should be located in the center third of the pallet





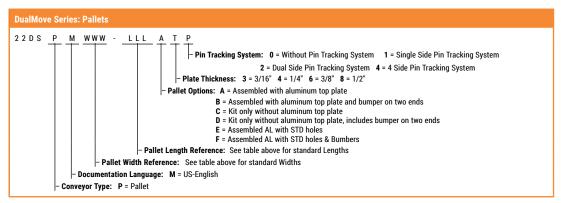
Tota	I Load Capa	city includ	ling Pallet	, Fixture a	nd Produc	t:				
	Pallet Length (mm)									
		160	240	320	400	480	640	800		
	160	14kg (30lbs)	18kg (40lbs)							
	240	18kg (40lbs)	23kg (50lbs)	27kg (60lbs)		32kg (70lbs)				
<u> </u>	320		27kg (60lbs)	32kg (70lbs)		32kg (70lbs)				
Width (mm)	400				32kg (70lbs)	36kg (80lbs)				
>	480		32kg (70lbs)	32kg (70lbs)	36kg (80lbs)	36kg (80lbs)	45kg (100lbs)			
	640					45kg (100lbs)	45kg (100lbs)	45kg (100lbs)		
	800						45kg (100lbs)	45kg (100lbs)		



Optional Pallet Bumpers



Optional Ball Bearing Pin Tracking

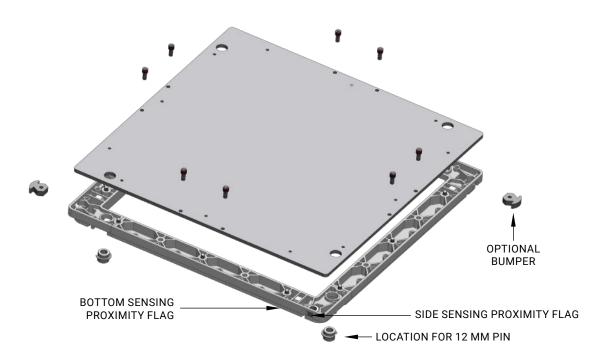


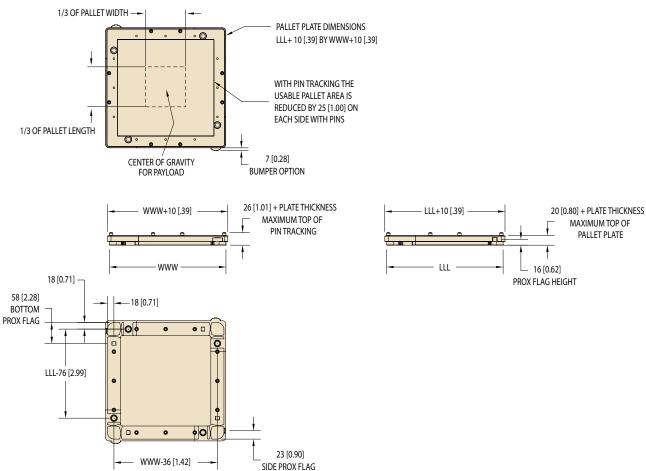
*Note: Pallet bumper cannot be used in applications where pallets slide against each other.





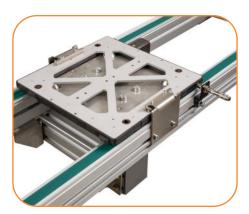






See page 54, 58-59 for detailed pallet weights and detailed pallet plate drawings.







Specifications

- · Lifts from center of conveyor
- · Load Capacity based on 60psi air supply
 - widths 160 240mm 39kg (85 lbs)
 - widths 320 480mm 91kg (200 lbs)
 - widths 640 800mm 159kg (350 lbs)
- Repeatability of ±0.13mm (±0.005 in)
- Lift height is adjustable, maximum height is 38 mm (1.49 in) from top of belt to bottom of pallet
- Includes lift, pallet stop, mounting hardware and fittings for $\mbox{\em 4}$ in push in air line
- Lift cylinder includes magnetic piston and 4 mm sensor track for C-Track proximity sensors. Sensors not included.
- · Requires cushioned or non-cushioned pallet stop.
- Optional sensor mount for pallet. Sensor mounts are for standard 12 mm diameter proximity switch.
- Optional guarding package

Stan	dard Pallet	Sizes						
				L	ength (mi	n)		
		160	240	320	400	480	640	800
	160	Х	Х					
	240	Х	Х	Х		Х		
Œ.	320		Х	Х		Х		
Width (mm)	400				Х	Х		
Ν	480		Х	Х	Х	Х	Х	
	640					Х	Х	Х
	800						х	Х



RECOMMENDED ACCESSORY:
Pallet Guide Plate minimizes pallet twist



STANDARD FEATURE: Vertical Locator Limit Bracket

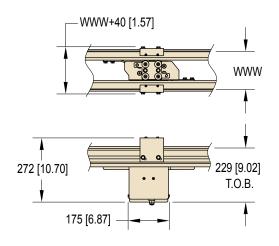
Part Number 203747

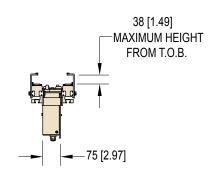


All combinations are valid except 160 mm width or length is not compatible with the bottom sensor bracket.

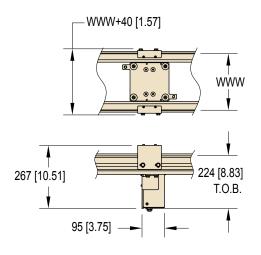


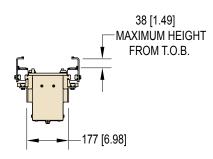




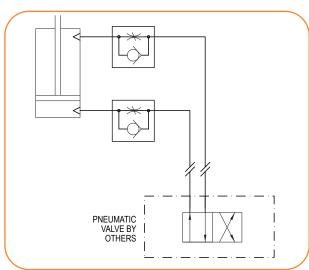


160x160 & 160x240





240x240 thru 240x480

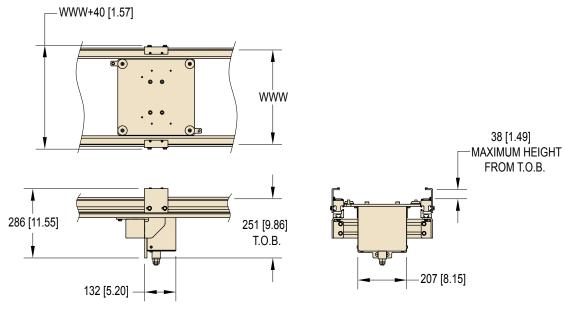


PNEUMATIC SCHEMATIC

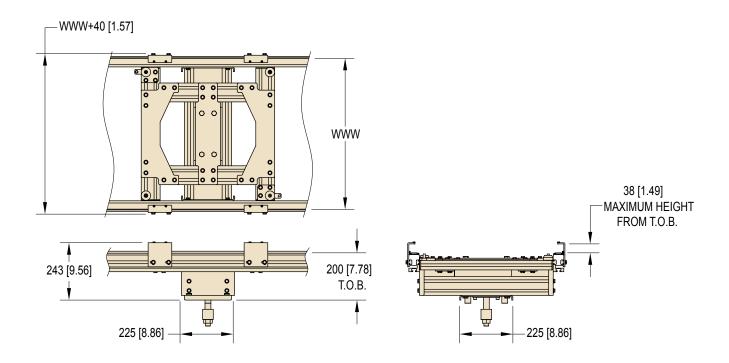
For detailed module spacing, see page 55-57. For pneumatic specifications, see page 54.







320x240 thru 480x640

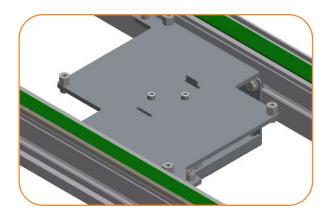


640x480 thru 800x800

For detailed module spacing, see page 55-57. For pneumatic specifications, see page 54.







Specifications

- · Lifts from center of conveyor
- · Load Capacity based on 60 psi air supply
 - widths 160 240 mm 39kg (85 lbs)
 - widths 320 800 mm 91kg (200 lbs)
- · Repeatability of ±0.38mm (±0.015 in)
- Lift height maximum height is 38 mm (1.49 in) from top of belt to bottom of pallet
- Includes lift, pallet stop, mounting hardware and fittings for ¼ in push in air line
- Lift cylinder includes magnetic piston and 4 mm sensor track for C-Track proximity sensors. Sensors not included.
- · Requires cushioned or non-cushioned pallet stop.
- Optional sensor mount for pallet. Sensor mounts are for standard 12 mm diameter proximity switch.
- Optional guarding package

Stan	dard Pallet	Sizes									
	Length (mm)										
		160	240	320	400	480	640	800			
	160	Х	Х								
	240	Х	Х	Х		Х					
Ē	320		Х	Х		Х					
Width (mm)	400				Х	Х					
Nid	480		Х	Х	Х	Х	Х				
	640					Х	Х	Х			
	800						Х	Х			



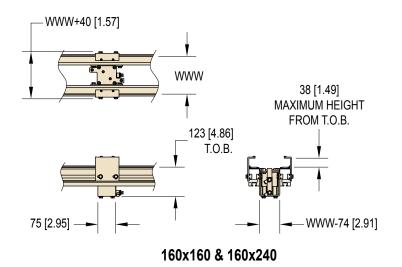
RECOMMENDED ACCESSORY:
Pallet Guide Plate minimizes pallet twist

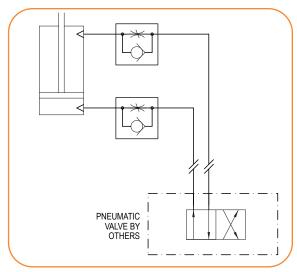
Part Number 203747



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







WWW+40 [1.57]

WWW

38 [1.49]

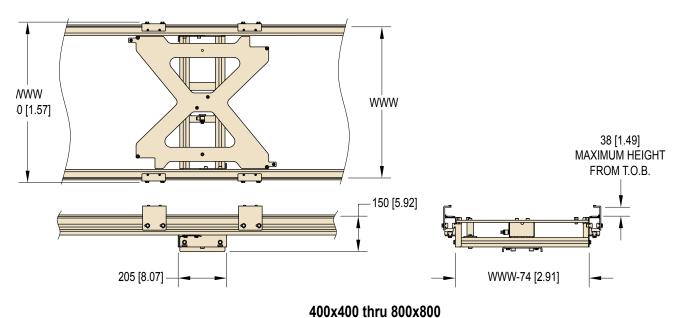
MAXIMUM HEIGHT
FROM T.O.B.

100 [3.94]

WWW-74 [2.91]

PNEUMATIC SCHEMATIC

240x240 thru 320x480

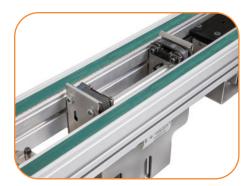


400A400 tilla 000A000

For detailed module spacing, see page 55-57. For pneumatic specifications, see page 54.





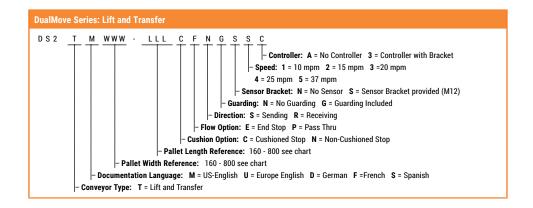




Specifications

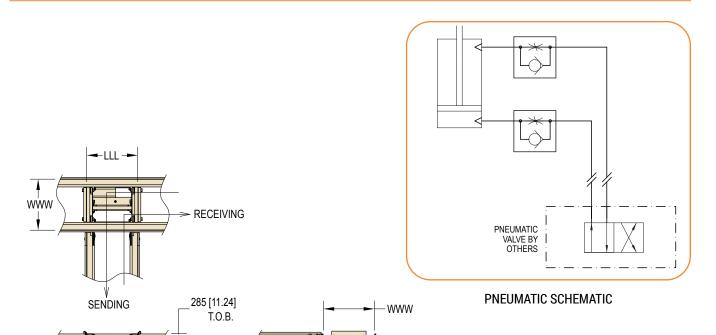
- · 2 position Lift and Transfer
 - · Up position transfers pallet on/off the transverse conveyor
 - Down position allows pallet to pass transfer unit and/or stops prior to transferring.
- · Changes product orientation at 90 degree corner
- · capacity matches pallet's max load, up to 45 kg (100 lbs).
- · Allows transfer to two directions if required
- Pallet transfers over conveyor high side. 8 mm (0.31 in) change
 - · No guide cutting required
- · Includes (1) 24VDC Brushless
 - 3.0 Amps starting current, 2.5 Amps rated torque
 - Available transfer speeds: 10, 15, 20, 25, 37m/min
 - Requires 24VDC power and single 24V PNP input to run
- · Conveyor tie brackets see page 44 for details
- Multiple configurations available; sending/receiving and end-stop/ pass-thru. see page 52 for configurations details
- · Options:
 - · Pallet sensor bracket .
 - Optional guarding package
 - · Cushioned or non-cushioned pallet stops

Stan	dard Pallet	Sizes									
	Length (mm)										
		160	240	320	400	480	640	800			
	160	Х	Х								
	240	Х	Х	Х		Х					
Œ	320		Х	Х		Х					
Width (mm)	400				Х	Х					
Ņ	480		Х	Х	Х	Х	Х				
	640					Х	Х	Х			
	800						Х	Χ			







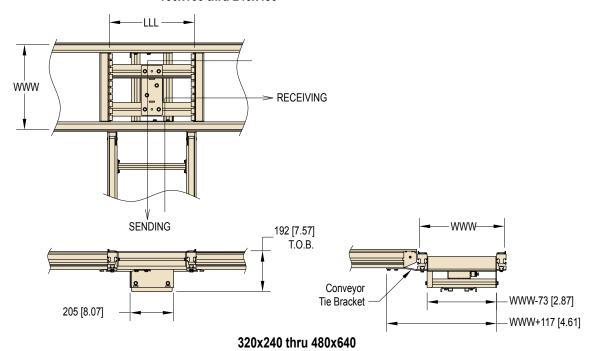


- WWW-70 [2.76]

-WWW+120 [4.72]

160x160 thru 240x480

Conveyor Tie Bracket



For detailed module spacing, see page 55-57. For pneumatic specifications, see page 54.

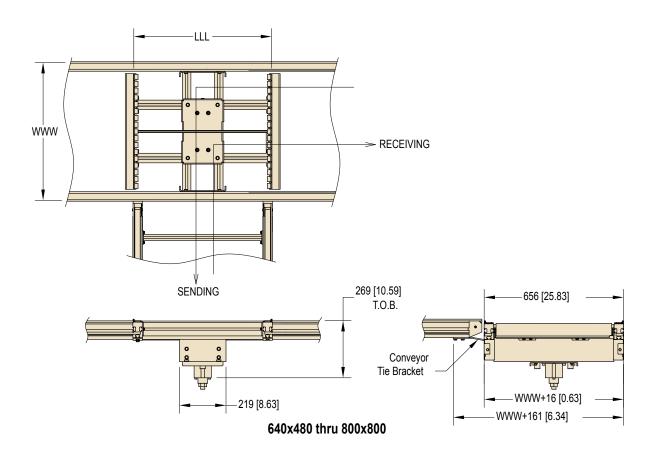
Note: Due to the wide variety of drive setups and applications, point of installation guarding is the responsibility of the end user.

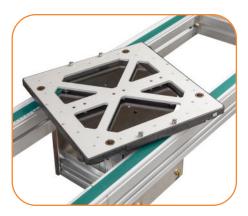
Note: Dimensions = mm (in)



LLL+29 [1.14]









Specifications

- · Pneumatic lift from center of conveyor
- · Pneumatic rotation with adjustable positioning
- · Includes break-away magnetic coupled rotation plate for product safety
- Rotation angle: 90 and 180 degrees Note: 90 degree rotation only available in sqaure pallets.
- · Includes cushioned turn strokes
- · Load capacity matches maximum pallet loads
- Includes mechanism, mounting hardware and fittings for ¼ in push in air line
- Lift and Rotate cylinders include magnetic pistons and 4 mm sensor track for C-track proximity sensors. Sensors not included.
- · Optional cushioned or non-cushioned pallet stop.
- Optional sensor mount for pallet. Sensor mounts are for standard 12 mm diameter proximity switch.
- Optional guarding package

Stan	dard Pallet	Sizes								
	Length (mm)									
		160	240	320	400	480	640	800		
	160	Х	Х							
	240	Х	Х	Х		Х				
Ē	320		Х	Х		Х				
Width (mm)	400				Х	Х				
Ŋ	480		Х	Х	Х	Х	Х			
	640					Х	Х	Х		
	800						Х	Х		



Optional Guarding Package



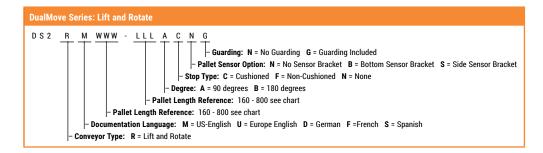
STANDARD FEATURE: Breakaway Top Plate



RECOMMENDED ACCESSORY: Pallet Guide Plate minimizes pallet twist

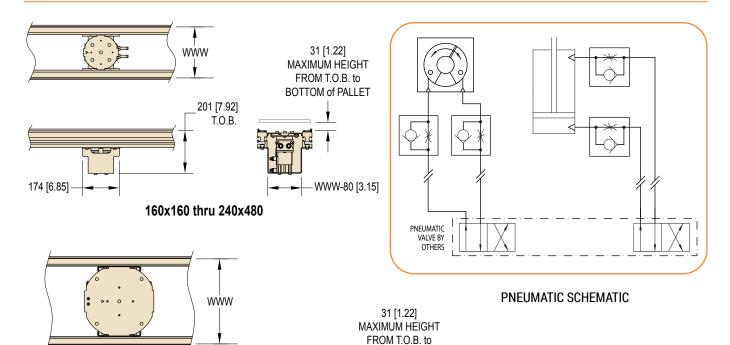
Part Number

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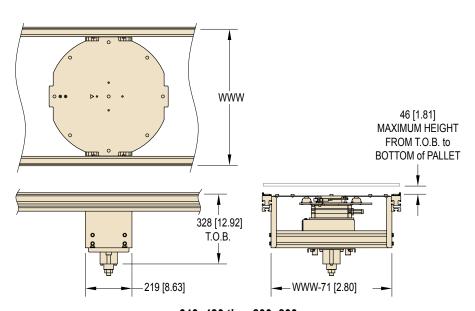


BOTTOM of PALLET

WWW-74 [2.93]

320x240 thru 480x640

245 [9.65] T.O.B.



640x480 thru 800x800

For detailed module spacing, see page 55-57. For pneumatic specifications, see page 54.

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)



204 [8.04]

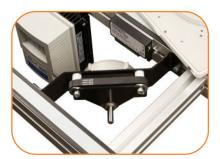


Specifications

- · Requires pin tracking capability in pallet
- · 25 mm (1 in) of pallet space at side of pins required
- · Up to 32 kg (70 lbs) load capacity
- · Maintains product orientation around the corner
- · Product accumulation in the corner is not recommended
- · Inside guide is fixed mounted to transfer pallet around corner
- · 24VDC mini-conveyors drive the pallet around the corner
- · Mini-conveyor includes 24V Brushless DC drive motors with controls
 - 60 W output, Rated 4 Amps (0.3 Amps under no load)
 - Belt Speed: 25-126 ft/min.
 - Includes switch box (FWD/OFF/REV) switch, speed potentiometer, and wire output to remotely control ON/OFF function via 24VDC signal.

Stan	dard Pallet	Sizes										
	Length (mm)											
		160	240	320	400	480	640	800				
	160	Х	Х									
	240	Х	Х	Х								
(E	320		Х	Х								
Width (mm)	400											
Ņ	480											
	640											
	800											

For large pallet sizes see heavy load corners.



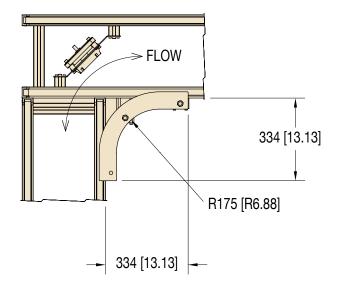
Mini Conveyor Drives
Pallet around Corner

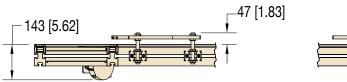


Pin Tracking











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DualMove Series: 90 Degree Corner

D S 2 T M WWW D D - Direction: L = Right R = Right - Pallet Width Reference: 160 = 160 mm 240 = 240 mm 320 = 320 mm - Documentation Language: M = US-English - Conveyor Type: T = Fixed Corner Turn
```

For detailed module spacing, see page 55-57. For pneumatic specifications, see page 54.



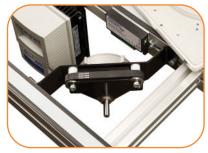


Specifications

- · Requires pin tracking capability in pallet
- · 25 mm (1 in) of pallet space at side of pins required
- · Up to 32 kg (70 lbs) load capacity
- · Maintains product orientation around the corner
- · Product accumulation in the corner is not recommended
- · Inside guide is fixed mounted to transfer pallet around corner
- Two 24VDC mini-conveyors drive the pallet around the corner
- Mini-conveyors include two 24V Brushless DC drive motors with controls
 - Each motor: 60 W output, rated 4 Amps (0.3 Amps under no load)
 - Belt Speed: 25-126 ft/min.
 - Includes two switch boxes, each includes (FWD/OFF/REV) switch, speed potentiometer, and wire output to remotely control ON/OFF function via 24VDC signal.
- · Includes support stand and hardware

Standard Pallet Sizes												
	Length (mm)											
		160	240	320	400	480	640	800				
	160	Х	Х									
	240	Х	Х	Х								
Œ.	320		Х	Х								
Width (mm)	400											
Ş	480											
	640											
	800											

For large pallet sizes see heavy load corners.

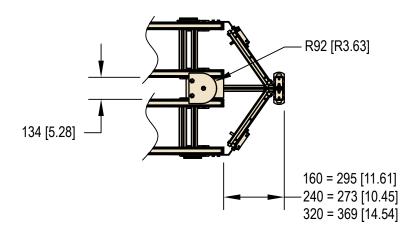


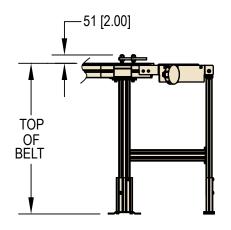
Mini Conveyor Drives
Pallet around Corner

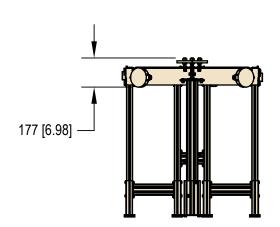


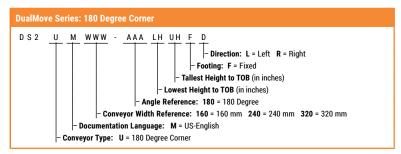
Pin Tracking







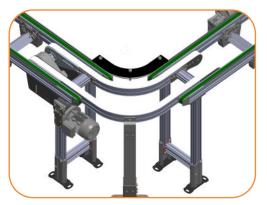




All combinations are valid except 160 mm width or length is not compatible with the bottom sensor bracket.



180° Corner



90° Corner



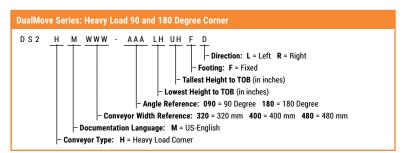
Pin Tracking

Specifications

- · Requires pin tracking capability in pallet
- · 25 mm (1 in) of pallet space at side of pins required
- · 68 kg (150 lbs) load capacity
- · Maintains product orientation around the corner
- Product accumulation in the corner is allowed 34 kg (75 lbs) maximum
- · Inside guide is fixed mounted to transfer pallet around corner
- Includes all brackets and hardware to mount corner conveyor to the main lines. Includes support stands.
- · Belt Speed is matched to main lines
- Separate gearmotor and drive is required for the corner conveyor.

Standard Pallet Sizes											
	Length (mm)										
		160	240	320	400	480	640	800			
	160										
	240					Х					
(mil	320					Х					
Width (mm)	400				Х	Х					
Ŋ	480		Х	Х	Х	Х	CF				
	640					CF	CF	CF			
	800						CF	CF			

CF = Consult the Factory for availability and total load capacity



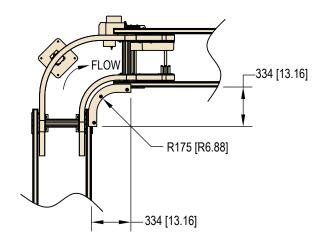
All combinations are valid except 160 mm width or length is not compatible with the bottom sensor bracket.

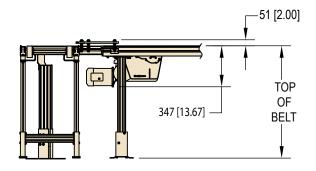
For detailed module spacing, see page 55-57. For pneumatic specifications, see page 54.

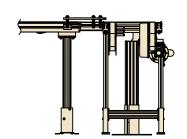


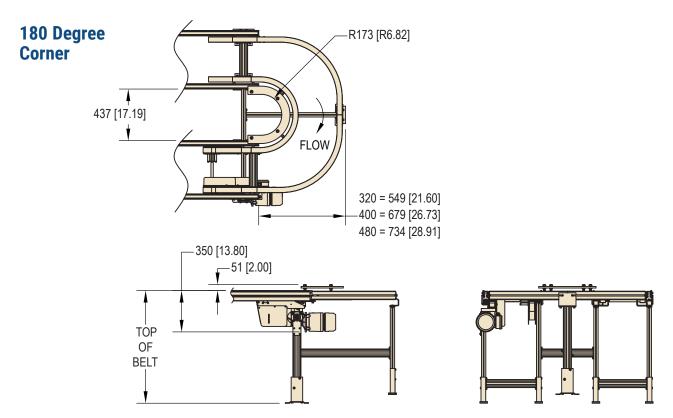


90 Degree Corner











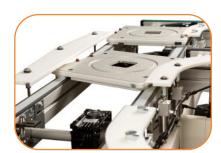




Specifications

- · Requires pin tracking capability in pallet
- · 25 mm (1 in) of pallet space at side of pins required
- · 32 kg (70 lbs) load capacity
- · Maintains product orientation
- · Inside guide is raised with pneumatic cylinders to clear flow through
- Straight guide with pneumatic cylinder is mounted across perpendicular conveyor to guide pallets straight through the merge area
- Includes sensor mount track on guide cylinder for C-track 4 mm proximity sensors
- 160 mm wide units have no added mini-conveyor
- 240 mm and 320 mm have a 24VDC mini-conveyor added to drive the pallet around the corner
- · Mini-conveyor includes 24V Brushless DC drive motor with controls
 - 60 W output, rated 4 Amps (0.3 Amps under no load)
 - Belt Speed: 25-126 ft/min.
 - Includes switch boxes (FWD/OFF/REV) switch, speed potentiometer, and wire output to remotely control ON/OFF function via 24VDC signal.
- Requires pallet stops for traffic control. See page 32-35.
- Requires support stand or conveyor tie bracket to connect conveyors.
 See pages 43-44.

Stand	dard Pallet	Sizes									
	Length (mm)										
		160	240	320	400	480	640	800			
	160	Х	Х								
	240	Х	Х	Х							
Ē	320		Х	Х							
Width (mm)	400										
Š	480										
	640										
	800										



Pneumatic Activated Transfer Guides



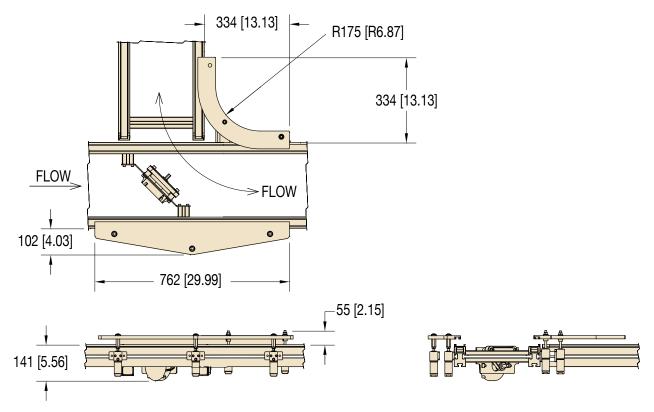
Mini Conveyor Drives
Pallet around Corner

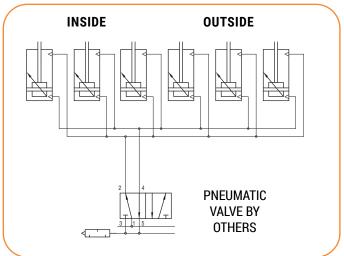


Pin Tracking

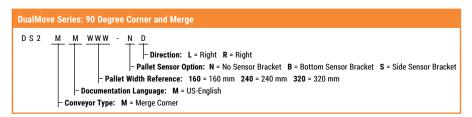








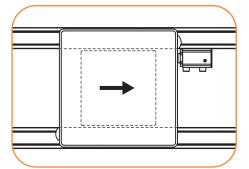
PNEUMATIC SCHEMATIC



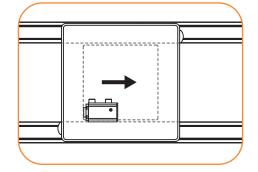
For pneumatic specifications, see page 54.







Stop Located After Pallet



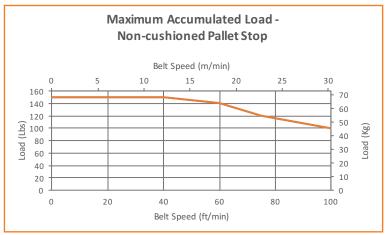
Pallet Stop - Non-cushioned

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

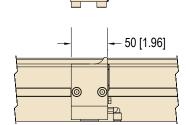
- · Maximum Load: 68 kg (150 lbs) accumulated
- · Pneumatically activated, spring return
- · Not suitable for reversing application
- · Mounts on the inside of the conveyor rail
- · Airline can be mounted on the front or back of the stop
- Includes: stop, mounting hardware, and fittings for ¼ in push in air line
- · Optional vertical or side mounted sensor bracket. See page 45.

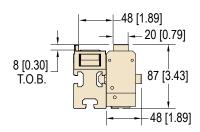
Part Number DS2SM-SFx where x: N = no sensor, B = Bottom sensor, S = side sensor

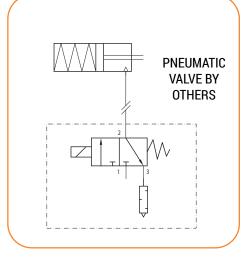




FLOW







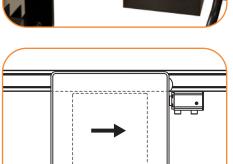
PNEUMATIC SCHEMATIC

For pneumatic specifications, see page 54.

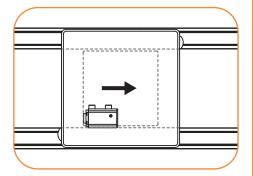




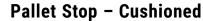




Stop Located After Pallet



Stop Located Inside Pallet

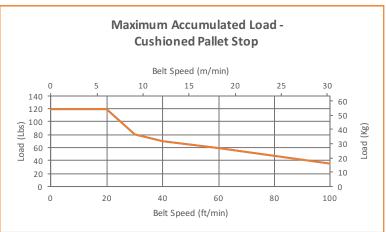


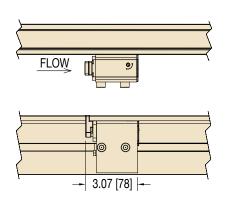
Cushioned pallet stop for traffic control. Stops one or more pallets at the specified location on the conveyor. Cushioned deceleration of the first pallet into the stopped location guarding against vibration of sensitive payloads. Accumulated pallets are not cushioned. Air pressure disengages the stop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

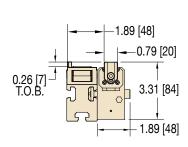
Specifications

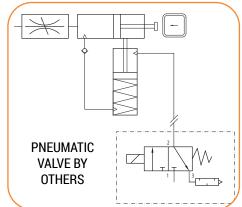
- · Maximum Load: 150 lbs (68 kg) accumulated
- · Pneumatically activated, spring return
- · Stops the pallet on the leading or training edge
- · Not suitable for reversing application
- · Mounts on the inside of the conveyor rail
- · Airline can be mounted on the front or back of the stop
- Includes: stop, mounting hardware, and fittings for ¼ in push in air line
- · Optional vertical or side mounted sensor bracket. See page 45.

Part Number DS2SM-**SC**x where x: **N** = no sensor, **B** = Bottom sensor, **S** = side sensor







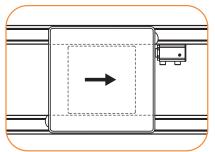


PNEUMATIC SCHEMATIC

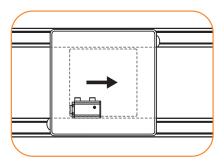
For pneumatic specifications, see page 54.







Stop Located After Pallet



Stop Located Inside Pallet

Heavy Load Pallet Stop - Non-cushioned

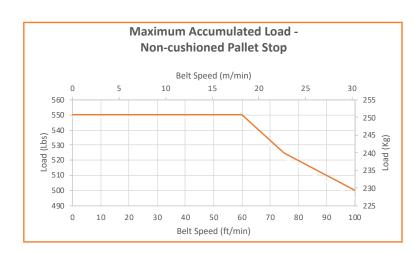
Non-cushioned pallet stop for traffic control. Stops one or more pallets at the specified location on the conveyor. Air pressure disengages the stop allowing pallets to pass until the pressure is released. A spring return re-engages the pallet stop.

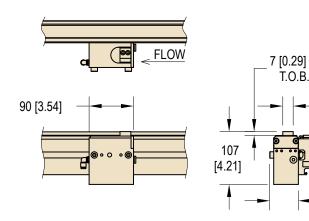
Specifications

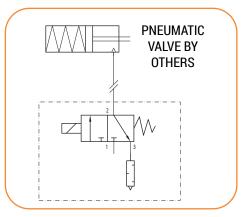
- · Maximum Load: 250 kg (550 lbs) accumulated
- · Recommended for pallets wider than 400 mm
- · Pneumatically activated, spring return
- · Mounts on the inside of the conveyor rail
- · Airline can be mounted on the front or back of the stop
- Includes: stop, mounting hardware, and fittings for 6.3 mm
 (¼ in) push in air line
- Optional vertical or side mounted sensor bracket. See page 45

Part Number

DS2SM-HFx where x: N = no sensor, B = Bottom sensor, S = side sensor







PNEUMATIC SCHEMATIC

For pneumatic specifications, see page 54.

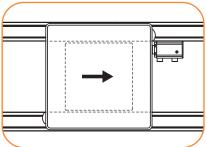
58 [2.28]

- 21 [0.83]

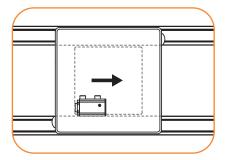








Stop Located After Pallet



Stop Located Inside Pallet



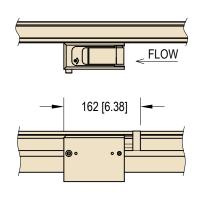
Cushioned pallet stop for traffic control. Stops one or more pallets at the specified location on the conveyor. Cushioned deceleration of the first pallet into the stopped location, guarding against vibration of sensitive payloads. Accumulated pallets are not cushioned. Air pressure disengages the stop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

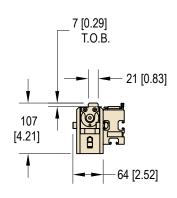
Specifications

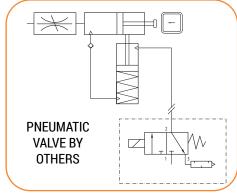
- Maximum Load: 114 kg (250 lbs) accumulated
- · Recommended for pallets wider than 400 mm
- · Pneumatically activated, spring return
- Stops the pallet on the leading or trailing edge
- · Mounts on the inside of the conveyor rail
- Airline can be mounted on the front or back of the stop
- Includes: stop, mounting hardware, and fittings for 6.3 mm
 (¼ in) push in air line
- Optional vertical or side mounted sensor bracket. See page 45

Part Number DS2SM-HCx where x: N = no sensor, B = Bottom sensor, S = side sensor





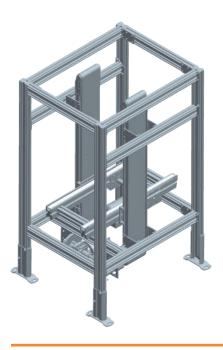




PNEUMATIC SCHEMATIC

For pneumatic specifications, see page 54.

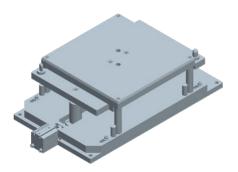




Vertical Transfer Unit (Elevator)

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



Heavy Duty Lift and Locate

Heavy duty Lift and Locate is used for operations that require large downward force such as pressing or riveting processes. The anvil lifts and mechanically locks in place isolating pressing forces from the conveyor line.

- · Withstands up to 2,268 kg (5000 lbs) of downward force
- · Available for standard pallet sizes
- · Pneumatically operated anvil and locking mechanism
- · Isolates pressing forces from the conveyor
- · Requires floor mount support by others



Lift Gate

A manually raised and lowered conveyor section to allow access to the conveyor line.

- Available for standard and custom pallet sizes
- Conveyor motor used as the counter weight for easier lifting
- · Gas spring controlled pivot mechanism
- · Vertical stop position
- Aluminum support structure with T-slot construction and ± 50 mm (2 in) adjustability
- · Must be bolted to the floor



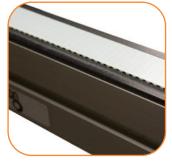




Tin	Γiming Belt Guide										
Part Number Reference	Belt Specifications	Tooth Pitch	Thickness	Material	Top Surface	Color	Temperature Range	Maximum Tensile Force	Coefficient of Friction	Width	
1D or 1P	Low Friction	5 mm	2.2 mm	Polyamide Fabric Top, Urethane base material, Steel cords	Fabric	Green	-30 to 80° C (-22 to 176° F)	94 lbs (420 N)	Very low	25 mm	
2D or 2P	Medium Friction	5 mm	2.2 mm	Urethane Top, Urethane base material, Steel cords	Smooth	Off White	-30 to 80° C (-22 to 176° F)	94 lbs (420 N)	Medium	25 mm	
3D or 3P	Anti-static Low Friction*	5 mm	2.2 mm	Anti-static Fabric Top, Urethane base material, Steel cords	Fabric	Black	-30 to 80° C (-22 to 176° F)	94 lbs (420 N)	Very low	25 mm	

^{*}Note: Anti-static belts are in full compliance with ISO standard 9563.









Low Friction

Medium Friction

Anti-Static Low Friction

Pinned Splice

BELT SPEEDS

Determine conveyor belt speed based on the gearmotor RPM in gearmotor tables on pages 53.

Fixed Speed

60 Hz Gearmotors												
	Belt S	Speed										
Gearmotor RPM	m/min	ft/min										
29	5.5	18										
43	8.2	27										
86	16.5	54										
173	33	108										
345	66	215										

Variable Speed

60 Hz Gearmotor	's	
	Belt S	Speed
Gearmotor RPM	m/min	ft/min
29	0.6 - 5.5	2 – 18
43	0.8 - 8.2	3 – 27
86	1.7 - 16.5	5 – 54
173	3 – 33	11 – 108
345	6.6 - 66	22 – 215

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)

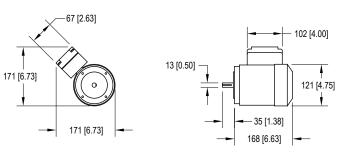




Standard Load, Fixed Speed

Chart 1 90° eDrive NEMA C-Face

- · Sealed gearmotor
- NEMA 42 CZ C Face
- · Totally enclosed, fan cooled
- 115V 1 phase includes switch, cord and overload protection
- 208-230/460 Volts, 3 phase wiring by others
- 60 Hz
- Order 3 phase starter separately, see page 41



Regulatory
Approvals

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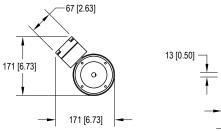
RoHS

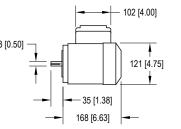
Motor Part	Gearmotor ref. ir	nfo	Cor	veyor Sp	eed		1 Phase			3 Ph	ase	Torque (1ph / 3ph)	3 Phase
Number	Reference PN	RPM	PN ref.	m/min	ft/min	Нр	kW	FLA 115V	Нр	kW	FLA 208- 230/460V	inlbs.	Nm	Starter Chart
	62M060ES4(vp)FN	29	Α	5.5	18	0.25	0.19	3.1	0.38	0.28	1.9 / 0.95	124 / 142	16.0 / 16.0	L
	62M040ES4(vp)FN	43	В	8.2	27	0.25	0.19	3.1	0.38	0.28	1.9 / 0.95	159 / 159	18.0 / 18.0	L
62MES4(vp)FN	62M020ES4(vp)FN	86	С	16.3	53	0.25	0.19	3.1	0.38	0.28	1.9 / 0.95	121 / 159	13.6 / 18.0	L
	62M010ES4(vp)FN	173	D	32.9	108	0.25	0.19	3.1	0.38	0.28	1.9 / 0.95	80 / 122	9.1 / 13.8	L
	62M005ES4(vp)FN	345	Е	65.6	215	0.25	0.19	3.1	0.38	0.28	1.9 / 0.95	41 / 62	4.6 / 7.0	L

Standard Load, Variable Speed

Chart 28 90° eDrive NEMA C-Face VFD Rated

- · Sealed gearmotor
- NEMA 42 CZ C Face
- · Totally enclosed, fan cooled
- 208-230/460 Volts, 3 phase wiring by others
- 10-60 Hz
- Order 3 phase starter separately, see page 41





Regulatory

Motor Part	Gearmotor ref. info		Conveyor Speed						3	Phase	Torque (VFD	
Number	Reference PN	RPM	PN ref.	m/ !	min	ft/ı	ft/min		kW	FLA 208-230/460V	inlbs.	Nm	Controller Chart
	62M060ES423EN	29	Α	3	18	0.9	5.5	0.38	0.28	1.9 / 0.95	142	16.0	D or E
	62M040ES423EN	43	В	4.5	27	1.4	8.2	0.38	0.28	1.9 / 0.95	159	18.0	D or E
62MES423EN	62M020ES423EN	86	С	8.8	53	2.7	16.3	0.38	0.28	1.9 / 0.95	159	18.0	D or E
	62M010ES423EN	173	D	18	108	5.5	32.9	0.38	0.28	1.9 / 0.95	122	13.8	D or E
	62M005ES423EN	345	Е	35.8	215	10.9	65.6	0.38	0.28	1.9 / 0.95	62	7.0	D or E

FLA = Full Load Amperes

Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = mm (in)

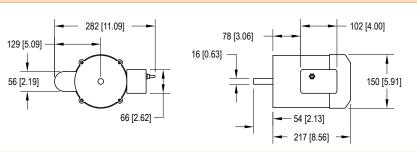




Heavy Load, Fixed Speed

Chart 6 90° eDrive NEMA C-Face

- · Sealed gearmotors
- NEMA 56 C face
- · Totally enclosed, fan cooled
- 115V 1 phase includes switch, cord and overload protection
- 208-230/460 Volts 3 phase wiring by others
- 60 Hz
- Order 3 phase starter separately, see page 41



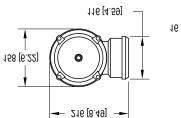


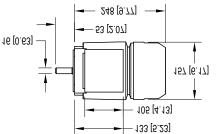
Motor Part	Gearmotor ref. ir	ıfo	Con	veyor Sp	eed		1 Phase			3 Pł	nase	Torque (1	ph / 3ph)	3 Phase
Number	Reference PN	RPM	PN ref.	m/min	ft/min	Нр	kW	FLA 115V	Нр	kW	FLA 208- 230/460V	inlbs.	Nm	Starter Chart
	32M060ES4(vp)FN	29	Α	5.5	18	0.5	0.37	5.7	0.5	0.37	2.1 - 2 / 1.0	319	36.0	М
62MEH411FN	32M040ES4(vp)FN	43	В	8.2	27	0.5	0.37	5.7	0.5	0.37	2.1 - 2 / 1.0	363	41.0	М
(1 phase) 32MES423FN	32M020ES4(vp)FN	86	С	16.3	53	0.5	0.37	5.7	0.5	0.37	2.1 - 2 / 1.0	259	29.3	М
(3 phase)	32M010ES4(vp)FN	173	D	32.9	108	0.5	0.37	5.7	0.5	0.37	2.1 - 2 / 1.0	153	17.3	М
	32M005ES4(vp)FN	345	Е	65.6	215	0.5	0.37	5.7	0.5	0.37	2.1 - 2 / 1.0	78	8.8	М

Heavy Load, Variable Speed

Chart 10 90° eDrive NEMA C-Face VFD Rated

- · Variable frequency drive, 6 60 Hz
- · Sealed gearmotor
- NEMA 56 C Face
- · Totally enclosed, fan cooled
- · 230/460 Volts, 3 Phase
- Order controller separately, see page 41





Regulatory

Motor Part	Gearmotor ref. info			Con	veyor Sp	eed			3 Pł	nase	*Torque (1ph / 3ph)		VFD
Number	Reference PN	RPM	PN ref.	m/ı	min	in ft/min		Нр	kW	FLA 208-230/460V	inlbs.	Nm	Controller Chart
	32M060ES423EN	29	Α	3	18	0.9	5.5	0.75**	0.55	2.6 / 1.3	319	36.0	D or E
	32M040ES423EN	43	В	4.5	27	1.4	8.2	0.75**	0.55	2.6 / 1.3	363	41.0	D or E
32MES423EN	32M020ES423EN	86	С	8.8	53	2.7	16.3	0.75**	0.55	2.6 / 1.3	259	29.3	D or E
	32M010ES423EN	173	D	18	108	5.5	32.9	0.75**	0.55	2.6 / 1.3	153	17.3	D or E
	32M005ES423EN	345	E	35.8	215	10.9	65.6	0.75**	0.55	2.6 / 1.3	78	8.8	D or E

^{* =} At 60 Hz

FLA = Full Load Amperes

Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = mm (in)



^{** =} Motor is de-rated to 0.5 Hp (2.2 / 1.1 amp) for full torque throughout the speed range.



Standard Load, Variable Speed DC

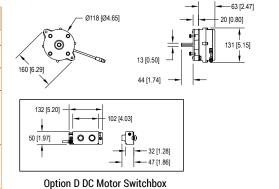
Chart 4 24 Volt Brushless DC

When connecting to the motor via a cable (Plug side view)



- Brushless 24 VDC Motor
- 350 motor RPM
- 5 pin M8 connector
- Enviroment : -4-122Fo

Pin	Function	Value
1	Power Supply + Input	Rated: 24 VDC, Range: 23 to 28 VDC
2	Rotation Direction (Face Label View)	Counter-Clockwise (CCW): <4 VDC Clockwise (CW): >7 VDC
3	Power Supply - Input (Also Earth Ground)	Ground: 0 VDC
4	Fault Output	Open Collector Vcesat = 0.5 VDC for lc = 5 mA Vmax = 30 VDC for lcmax = 200 mA Fault: Signal High No Fault: Signal Low
5	Speed Input	Range: 0 - 24 VDC Stop (Braked ZMH): 0 - 2.2 VDC Speed: 2.3 to 10 VDC Max Speed: 10 to 24 VDC



Motor Part	Gearmotor ref. in		Conveyo	or Speed		Brushless 24 VDC			Torque (1ph / 3ph)		
Number	Reference PN	RPM	PN ref.	l ref. m/min		ft/min		kW	FLA	inlbs.	Nm
	62M060ESBDDEN(x*)	6	Α	0.2	1.1	0.7	3.6	0.6	4.0	142	16.0
	62M040ESBDDEN(x*)	9	В	0.3	1.7	1	5.6	0.6	4.0	159	18.0
62MESBDDEN(x*)	62M020ESBDDEN(x*)	18	С	0.7	3.3	2.3	10.8	0.6	4.0	159	18.0
	62M010ESBDDEN(x*)	35	D	1.3	6.7	4.3	22	0.6	4.0	122	13.8
	62M005ESBDDEN(x*)	70	Е	2.7	13.3	8.9	43.6	0.6	4.0	62	7.0

* where x:

- C = remote controled, Motor comes with M8 connecter only,
- D = ready to run, motor comes prewired switch box including switch for FWD/OFF/REV, and varieable speed pot.
- R = remotely controlled ON/OFF, motor comes with switch box FWD/OFF/REV, and variable speed pot, and wires to remotely turn on/off via relay or +24VDC signal.

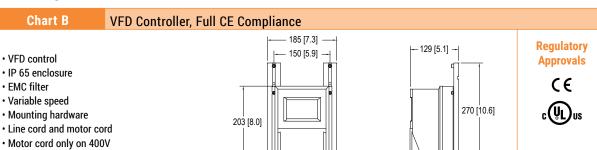
FLA = Full Load Amperes

Some motors and gear reducers may normally operate hot to the touch. Consult factory for specific operating temperatures. Note: Dimensions = mm (in)





Variable Speed Controllers

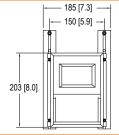


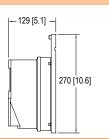
Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Output Phase	Max Kw*	Max Amps	Reversing
62UV2121	230	1	50	230	3	0.75	4.2	Yes
62UV4341	400	3	50	400	3	0.75	2.1	Yes

In order for this drive to meet full CE requirements for European application a separate CE approve RFI filter must be installed. Product shown in chart B above have this filter pre-installed and are recommended for use in the European Union.

Chart D Full Feature VFD Controller

- · Full feature VFD control
- NEMA 4 enclosure
- Digital display
- Keypad with Start/Stop, Forward/Reverse and speed variations
- · Includes cord to motor
- · Power to controller by others for 230V & 460V input
- · 62MV1122 includes line cord to controller
- · Mounting hardware





Regulatory Approvals

 ϵ



Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Output Phase	Max Kw*	Max Amps	Reversing
32MV1122	115	1	60	230	3	0.5	2.2	Yes
32MV2122	230	1	60	230	3	0.5	2.2	Yes
32MV1121	115	1	60	230	3	1.0	4.0	Yes
32MV2121	230	1	60	230	3	1.0	4.0	Yes
32MV2322	230	3	60	230	3	0.5	2.2	Yes
32MV4341	460	3	60	460	3	1.0	2.0	Yes

In order for this drive to meet full CE requirements for European application a separate CE approve RFI filter must be installed. Product shown in chart B above have this filter pre-installed and are recommended for use in the European Union.

Chart E **Basic VFD Controller** 96 [3.78] 99 [3.90] 99 [3.90] Variable frequency drive Regulatory 83 [3.28] 51 [2.00] · Aluminum backplate with plastic enclosure **Approvals** · Lighted on / off switch ϵ · Speed potentiometer **RoHS** 38 [1.48] · Forward / Stop / Reverse switch (22MV1122BR) 164 [6.46] 183 [7.19] · Includes motor cord and power cord 136 [5.35] · Includes mounting brackets and hardware · UL listed and RoHS compliant

Part Number	Input Volts	Input Phase	Input Hz	Output Volts	Output Phase	Max Kw*	Max Amps	Reversing
22MV1122B	115	1	60	230	3	0.5	2.4	No
22MV1122BR	115	1	60	230	3	0.5	2.4	Yes

In order for this drive to meet full CE requirements for European application a separate CE approve RFI filter must be installed. Product shown in chart B above have this filter pre-installed and are recommended for use in the European Union.

* = See FLA from motor charts

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)





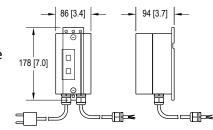
Manual Motor Starters

Manual motor starts are manual electronic disconnects that provide motor overload protection and are required by the National Electric Code (NEC) for safe motor operation.

Illustration A

- IP 55 Enclosure
- · Push button Start / Stop
- Includes mounting hardware





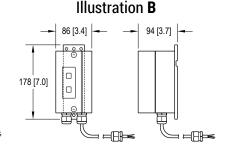


Chart I 230/400V 50Hz to 2.5 amp

- · 230 Volts, 1 phase includes cord, plug and starter
- 230/400 Volts, 3 phase wiring to starter by others
- · Wiring between motor and starter provided when ordered together
- 50 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62(c)M21T	230	1	1.6 - 2.5	A
62(c)M23T	230	3	1.0 - 1.6	B
62(c)M43T	400	3	0.63 - 1.0	B

230/460V 60 Hz to 1.6 amp

- 230/460 Volts, 3 phase wiring to starter by others
- · Wiring between motor and starter provided when ordered together
- 60 Hz

Chart L

Part Number	In Volts	In Phase	Amp Range	Illustration
62MM23L	230	3	1.0 - 1.6	B
62MM43L	460	3	0.463	B

Chart J

230/400V 50 Hz to 4 amp

- · 230 Volts, 1 phase includes cord, plug and starter
- · 230/400V, 3 phase wiring to starter by others
- Wiring between motor and starter provided when ordered together
- 50 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62(c)M21J	230	1	2.5 - 4.0	A
62(c)M23J	230	3	1.6 - 2.5	B
62(c)M43J	400	3	1.0 - 1.6	B

Chart M 230/460V 60Hz to 2.5 amp

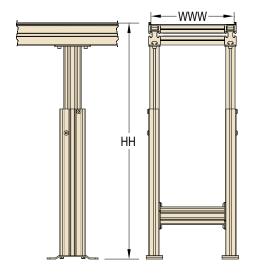
- 230/460 Volts, 3 phase wiring to starter by others
- · Wiring between motor and starter provided when ordered together
- 60 Hz

Part Number	In Volts	In Phase	Amp Range	Illustration
62MM23M	208 -230	3	1.6 - 2.5	B
62MM43M	460	3	1.0 - 1.6	B







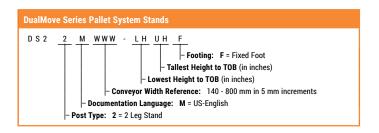


Fixed Height Support Stands

- · Standard 2-Leg version for base conveyor mounting
- · 305 mm (12 in) minimum TOB height
- 1829 mm (72 in) maximum TOB height
- Aluminum construction with T-Slot mounting for bolt on accessories and structure
- Provide ± 50 mm (2 in) of adjustment
- · Optional diagonal brace, see page 44.

Stand Chart			
Stand Width	140 mm	5 mm increments up to	800 mm
Part Number Reference	140	05 increments up to	800

Stand Chart			
Stand Height	305-406 mm (12-16 in)	1 in increments up to	1727-1829 mm (68 - 72 in)
Part Number Reference	1216	0101 increments up to	6872

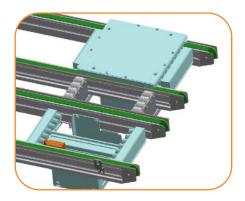


Note: Due to the wide variety of conveyor and stand options along with possible configurations, stability of the final setup is the responsibility of the end user. Note: Due to the wide variety of drive setups and applications, point of installation guarding is the responsibility of the end user. Note: Dimensions = mm (in)





Close Transfer Rollers



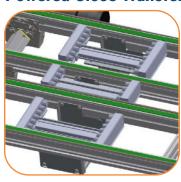
Specifications

Pallet transfer roller assembly for closely spaced parallel conveyors eliminating the need for a separate transverse conveyor. The transfer rollers are located between lift and transfer stations to prevent the pallet from stopping between the lift and transfers.

- Covering gaps between conveyors starting with 10 mm 500 mm in 5 mm increments
- Maximum spacing between parallel conveyor using transfer rollers in lieu of a transverse conveyor
 - 160 45 mm
 - · 240 85 mm
 - 320 125 mm
 - · 480 205 mm
 - · 640 285 mm

Part Number	Description	
DS2G-LLL	Where gap between conveyors: LLL = 010 mm - 500 mm in 5mm increments	

Powered Close Transfer Rollers



Specifications

Pallet transfer Powered mini conveyor assembly for closely spaced parallel conveyors cost effective small space conveyor. The conveyor is located between lift and transfer stations to prevent the pallet from stopping between the lift and transfers.

Part Number	Description	
DS2P-LLLS	Where gap between conveyors: LLL = 135, 180, 225, 270, 315, 360 mm Where "S" conveyor speeds: 1=10, 2=15, 3=20, 4=25, 5=37 m/min	

Conveyor Tie Bracket



Specifications

In-line tie brackets are used to rigidly tie and align 2 conveyors together. Designed to work with all Dorner pallet system (Edge Roller Technology)

· Comes as pairs with all mounting hardwear

Part Number	Description	
DS2A-TS	where DualMove conveyor connects to other product conveyor: TS: D2=DualMove, E3 = ERT150, E5 = ERT250	

Diagonal Bracing



Specifications

- · For use on steel, aluminum and single post support stands with casters
- · Metric fastener mounting hardware included
- · For use on all stands with casters and any stands over 1829 mm (72 in) tall
- One brace per stand for conveyors up to 610 mm (24 in) wide
- Two braces per stand for conveyors over 610 mm (24 in) wide

Part Number	Description
39MB-TS 39MB-TT	for stands up to 762 mm (30 in) tall for stands over 762 mm (30 in) tall



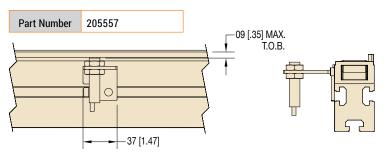


Pallet Sensor Bracket, Vertical



Specifications

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



Pallet Sensor Bracket, Horizontal



Specifications

- Standard mounting for 12 mm barrel proximity sensors
- · Sensor faces inward sensing pallet pick-up on outside of pallet
- Requires a minimum of 1 in long threaded portion on sensor
- · Includes all mounting hardware
- · Not for use on pallet sides with bumpers
- · Proximity sensor with 4 mm sensory range recommended

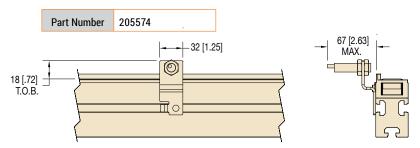


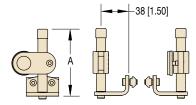
Photo Sensor Bracket



Specifications

- Standard mounting for 18 mm barrel / nose mount reflective sensors
- · Adjustable in height and angle
- · Includes a reflector
- · Includes all mounting hardware

Part Number	Photo Eye Mount Type
75M-PM-1	Reflective
75M-PM-3	Through Beam
75M-PM-5	Convergence



A = 92 [3.61 in] for 50 mm [2 in] Adjustment



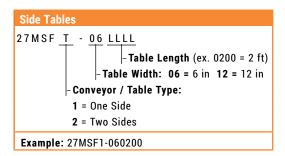


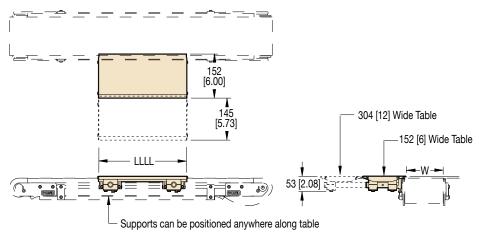
Side Tables



Specifications

- · Provides a 152 mm (6 in) or 305 mm (12 in) wide working surface
- · Adjusts in/out and up/down
- · Can be positioned anywhere along the conveyor
- · Anodized aluminum work surface
- Max load: 6 kg/m (5 lbs/ft), use Adjustable Tie Brackets for added capacity
- Available in 305 mm (1 ft) increments from 305 mm (1 ft) to 30,175 mm (99 ft)

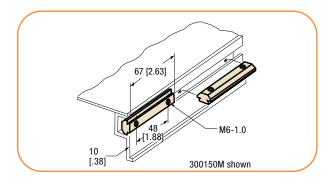




LLLL = 305 to 30,175 mm (1 to 99 ft), Maximum 2438 mm (8 ft) length single piece

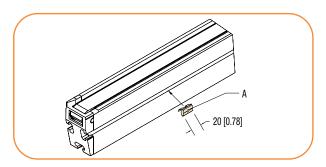


T-Slot Accessories



T-Bars

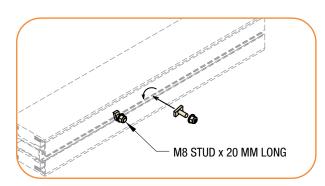
- · Mounts in T-Slot to attach heavy accessories
- · Fits conveyor and stands



Spring Nuts

- For mounting accessories to conveyor
- Spring retains position in T-Slot
- 20 mm (.78 in) long

Part Number	205504 M4 x .7 205505 M5 x .8 205506 M6 x 1.0 205508 M8 x 1.25
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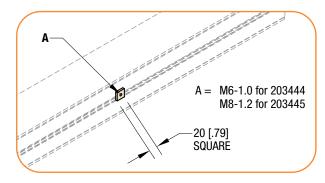


T-Bolt Hardware

- 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
 20mm long used to mount up to 0.25 in plate thickness
 35mm long used to mount up to 0.85 in plate thickness
- Provided in a package of 5 T-Bolts and flanged locknuts

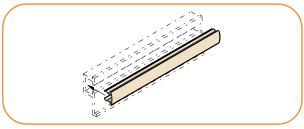
Part Number



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

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



T-Slot Cover

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

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



Regulatory Approvals:

Conveyors:

All Dorner DualMove Pallet Systems standard conveyors (not including gearmotors and controllers) 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 DualMove Pallet Systems 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 2002/95/EC, 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 DualMove Pallet Systems 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.
71 °	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 Al °us	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.
€	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.





Belting Chemical Resistance:

Belting:

The following is a list of the top coat materials used in DualMove Conveyor belting:

Material	Belt Number
Urethane	1D, 2D, 6D

Resistance to Materials: Belting

The following table provides the resistance to belt materials used in the conveyor to several chemicals.

Application testing is recommended to determine long term material durability.

Legend: 1 = Good resistance | 3 = Limited resistance | 4 = Not recommended

Urethane

Materials	Urethane
Chemicals	
Acetic acid (glacial acetic acid)	4
Acetic acid 10 %	3
Acetic anhydride	3
Acetone	4
Aluminum salts	1
Alum	1
Ammonia, aqueous	3
Ammonia, gaseous	1
Ammonium acetate	1
Ammonium carbonate	1
Ammonium chloride	1
Ammonium nitrate	1
Ammonium phosphate	1
Ammonium sulphate	1
Amyl alcohol	1
Aniline	3
Barium salts	1
Benzaldehyde	4
Benzine (see also Motor fuels)	1
Benzoic acid	1
Benzol	3
Boric acid	1
Boric acid, solution	1
Bromine	4
Bromine water	4
Butane, gaseous	1
Butane, liquid	1
Butyl acetate	4
n-Butyl alcohol	1

Materials	Uretnane
Calcium chloride	1
Calcium nitrate	1
Calcium sulphate	1
Carbon disulphide	4
Carbon tetrachloride	3
Chlorine, liquid	4
Chlorine, gaseous, dry	4
Chlorine, gaseous, wet	4
Chlorine water	4
Chlorobenzene	4
Chloroform	4
Chlorosulphonic acid	4
Chromic acid	4
Chromium salts	1
Chromium trioxide	1
Citric acid	4
Copper salts	1
Cresols	3
Cresols, aqueous	3
Cyclohexane	4
Cyclohexanol	4
Cyclohexanone	4
Decahydronaphthalene	4
Dibutyl phthalate	3
Diethyl ether	4
Dimethyl formamide	4
1.4 Dioxan	4
Ether	4
Ethyl acetate	4
Ethyl alcohol, non-denatured 100%	1

Materials	Urethane
Ethyl alcohol, non-denatured 96%	1
Ethyl alcohol, non-denatured 50%	1
Ethyl alcohol, non-denatured 10%	1
Ethyl benzene	4
Ethyl chloride	4
Ethylene chloride	4
2-Ethyl hexanol	1
Formaldehyde	1
Formic acid, dilute	4
Glycerine	1
Glycerine, aqueous	1
Glycol	1
Glycol, aqueous	1
Heptane	1
Hexane	1
Hydrochloric acid, conc.	3
Hydrochloric acid 10 %	3
Hydrofluoric acid 40 %	4
Hydrogen chloride, gaseous, dilute	3
Hydrogen chloride, gaseous, conc.	3
Hydrogen peroxide 10%	3
Hydrogen sulphide	3
Iron salts (sulphate)	1
Isooctane	1
Isopropyl alcohol	1
Lactic acid	1
Magnesium salts	1
Mercury	1
Mercury salts	1
Methyl alcohol, aqueous 50 %	3





Resistance to Materials: Belting

The following table provides the resistance to belt materials used in the conveyor to several chemicals.

Application testing is recommended to determine long term material durability.

Legend: 1 = Good resistance | 3 = Limited resistance | 4 = Not recommended

Materials	Urethane
Methyl alcohol (methanol)	1
Methyl ethyl ketone	4
Methylene chloride	4
Naphthalene	3
Nickel salts	1
Nitric acid	4
Nitrobenzene	4
Octane (see also isooctane)	1
Oleic acid	1
Oxalic acid	1
Ozone	1
Perchloroethylene	4
Phenol	3
Phenol, aqueous	4
Phosphoric acid 85 %	4
Phosphoric acid 50 %	1
Phosphoric acid 10 %	1
Phosphorus pentoxide	1
Potash lye 50 %	4
Potash lye 25 %	4
Potash lye 10 %	4
Potassium carbonate (potash)	1
Potassium chlorate	1
Potassium chloride	1
Potassium dichromate	1
Potassium iodide	1
Potassium nitrate	1
Potassium permanganate	1
Potassium persulphate	1
Potassium sulphate	1
Propane, gaseous	1
Propane, liquid	1
Pyridine	4
Silver salts	1
Soda lye 50% (see potash lye)	4
Soda lye 25%	4
Soda lye 10%	4
Sodium bisulphite	1
Sodium carbonate (natron)	1
Sodium carbonate (soda)	1

Materials	Urethane
Sodium chlorate	1
Sodium chloride (common salt)	1
Sodium hydroxide (caustic soda)	4
Sodium hypochlorite	1
Sodium nitrate	1
Sodium nitrite	1
Sodium perborate	1
Sodium phosphate	1
Sodium sulphate (Glauber salt)	1
Sodium sulphide	1
Sodium sulphite	1
Sodium thiosulphate (fixing salt)	1
Stearic acid	1
Succinic acid	1
Sulphur	1
Sulphur dioxide	3
Sulphuric acid 96%	4
Sulphuric acid 50%	4
Sulphuric acid 25%	4
Sulphuric acid 10%	4
Tartaric acids	1
Tetrachloroethane	4
Tetrachloroethylene (perchloroethylene)	4
Tetrahydrofuran	4
Tetrahydronaphthalene	4
Thiophene	4
Tin II chlorides	1
Toluene	4
Trichloroethylene	4
Urea, aqueous	1
Water	1
Xylene	4
Zinc salts	1
Products	
Alum	1
Anti-freeze*	1
Aqua regia	4
Asphalt	1
Battery acid	4

Materials	Urethane
Benzine	1
Bleaching lye (12.5%)	1
Bone oil	1
Borax	1
Brake fluid* Bosch	1
Brake fluid* Skydrol	4
Chloride of lime (aqueous suspension)	1
Chlorine (active)	4
Chrome baths* (technical)	1
Chromosulphuric acid	4
Cresol solution	3
Diesel oil	1
Fertilizer salts	1
Fixing salt	1
Floor wax	1
Formalin	1
Fuel oils*	1
Furniture polish*	1
Gypsum	1
lnk*	1
Linseed oil	1
Litex (styrene)	4
Mineral oils (non-aromatic)	1
Moth balls	3
Diesel oil*	1
Petrol (gasoline) DIN51635	1
Petrol, regular	1
Petrol, super	3
Motor oils*	1
Oil no. 3 (ASTM)	1
Oleum	4
Paraffin	1
Paraffin oil	1
Petroleum	1
Petroleum ether	1
Photographic developer	1



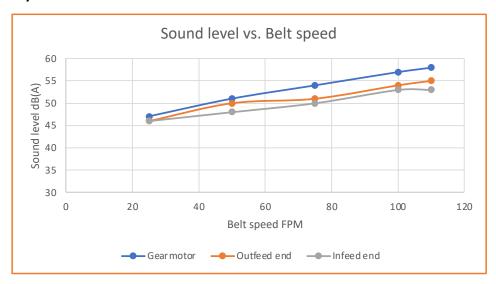


Conveyor Noise Level (Decibel Ratings)

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.

Generally a higher belt speed will result in a higher noise level. In addition modular belt conveyors will run slightly louder than belted conveyors. The following charts provide basic decibel ratings for a typical conveyor arrangements.

DualMove Strand Conveyors:



Belting and Coefficient of Friction

The coefficient of friction is used to determine the load a conveyor can carry. It affects a conveyor in two ways: the friction that exists between the conveyor belt and the bed surface, and if accumulating product the friction that exists between the conveyor top surface and the product.

Coefficient of Friction, between the	bottom of the conveyor belt and bed surface		
Product	Surfaces	Application Condition	Coefficient of Friction
DualMove Strand Conveyor	Impregnated polyester fabric to plastic bed plate	Dry	0.30

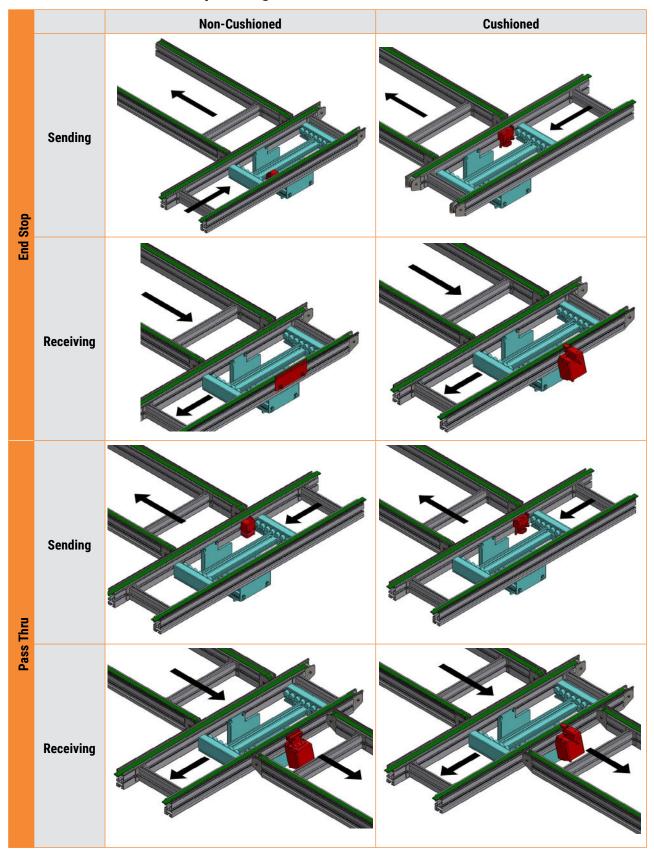
Coefficient of Friction, between the top surface of conveyor belt and product:

DualMove Conveyors		
	rovides the coefficient of friction betwee surfaces. All factors below are assuming	
Belt Number	Top Surface Material and Type	Coefficient of Friction
Belt Number 2D	Top Surface Material and Type Smooth medium urethane	Coefficient of Friction 0.50





Lift & Transfer Pallet Stop Configurations





Calculating Conveyor Belt Speed

DualMove Conveyors:

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

- Drive roller diameter
 - 60.60 mm (2.386 in) pitch diameter
- · RPM of gearmotor

Belt Speed (ft/min) = (Drive roller diameter/12)*(3.14)*(RPM of gearmotor)

Example:

DualMove Pallet Conveyor and the gearmotor. The gearmotor is a 10:1 ratio with 173 rpm output.

Belt Speed (ft/min) = (2.386/12)*(3.14)*(173)

Belt speed (ft/min) = 108 ft/min

Calculating Conveyor Load Capacity

There are several factor that effect the overall conveyor load of the DualMove 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





Pallet Weights (lbs)

Pallet					
Pallet Width (mm)	Pallet Length (mm)	1/4 in Alum Plate	1/2 in Alum Plate	3/16 in Steel Plate	3/8 in Alum Plate
160	160	1.1 (2.3)	1.5 (3.3)	1.6 (3.5)	1.1 (2.5)
160	240	1.3 (2.9)	1.9 (4.3)	2.1 (4.6)	1.6 (3.4)
240	240	1.7 (3.7)	2.6 (5.8)	2.8 (6.2)	2.1 (4.7)
240	320	2 (4.5)	3.3 (7.4)	3.6 (7.9)	2.7 (5.9)
240	480	2.7 (6.1)	4.7 (10.4)	5.1 (11.2)	3.8 (8.3)
320	320	2.5 (5.5)	4.3 (9.4)	4.6 (10.1)	3.5 (7.6)
320	480	3.5 (7.6)	6.1 (13.5)	6.6 (14.5)	4.9 (10.8)
400	400	3.6 (7.9)	6.3 (14)	6.8 (15.1)	5.1 (11.2)
400	480	4.2 (9.2)	7.5 (16.5)	8.1 (17.9)	6 (13.1)
480	480	4.9 (10.8)	8.9 (19.6)	9.6 (21.2)	7 (15.4)
640	480	6.4 (14)	11.6 (25.7)	12.6 (27.8)	9.1 (20)
640	640	8.3 (18.3)	15.3 (33.8)	16.7 (36.7)	11.8 (26)
640	800	10.2 (22.5)	19 (42)	20.7 (45.6)	14.5 (32.1)
800	640	10.2 (22.5)	19 (42)	20.7 (45.6)	14.5 (32.1)
800	800	12.6 (27.8)	23.6 (52.1)	25.7 (56.7)	18 (39.7)

DualMove Pallet System Modules

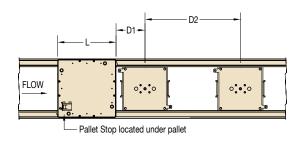
Pneumatic Specifications									
Devise	Pallet Width / Devise Size	Action	Bore Diameter	Stroke	Return Type	Force per Psi	Sensor Compatible	Fitting Tap Size	Fitting Tube Size
	160-240 mm	Lift Cylinder	40 mm (1.57in)	40 mm (1.57 in)	Pneumatic	1.9	Yes	1/8 NPT	1/4 in
Lift and Locate	320-480 mm	Lift Cylinder	63 mm (2.5 in)	50 mm (1.97 in)	Pneumatic	4.9	Yes	1/4 NPT	1/4 in
	640-800 mm	Lift Cylinder	80 mm (3.15 in)	50 mm (1.97 in)	Pneumatic	7.8	Yes	3/8 NPT	1/4 in
	160-240 mm	Lift Cylinder	50 mm (1.97 in)	35 mm (1.38 in)	Pneumatic	3.0	Yes	1/4 NPT	1/4 in
Lift and Transfer	320-480 mm	Lift Cylinder	80 mm (3.15 in)	35 mm (1.38 in)	Pneumatic	7.8	Yes	3/8 NPT	1/4 in
Life and Transier	640-800 mm + (480 x 640L)	Lift Cylinder	80 mm (3.15 in)	50 mm (1.97 in)	Pneumatic	7.8	Yes	3/8 NPT	1/4 in
		Lift Cylinder	50 mm (1.97 in)	35 mm (1.38 in)	Pneumatic	3.0	Yes	1/4 NPT	1/4 in
	160-24 0mm	Rotate Cylinder	30 mm (1.18 in)	N/A	Pneumatic	N/A	Yes	1/8 NPT	1/4 in
1.0 15	200 400	Lift Cylinder	80 mm (3.15 in)	35 mm (1.38 in)	Pneumatic	7.8	Yes	3/8 NPT	1/4 in
Lift and Rotate	320-480 mm	Rotate Cylinder	50mm (1.97 in)	N/A	Pneumatic	N/A	Yes	1/8 NPT	1/4 in
	640.000	Lift Cylinder	80 mm (3.15 in)	50 mm (1.97 in)	Pneumatic	7.8	Yes	3/8 NPT	1/4 in
	640-800 mm	Rotate Cylinder	100 mm (3.94 in)	N/A	Pneumatic	N/A	Yes	1/8 NPT	1/4 in
Corner and Merge	160-320mm	Lift Cylinder (3x each)	27 mm (1.06 in)	13 mm (0.50 in)	Pneumatic	0.9	Yes	1/8 NPT	1/4 in
0 11 0	Standard		o5 (5.00°)	. (2.25:)			N/A No	М5	- / 4 .
Cushion Stop	Heavy	Stop Retract	35 mm (1.38 in)	9 mm (0.35 in)	Spring	N/A		G 1/8	1/4 in
N 6 11 6:	Standard		as (5.001.)	. (2.25:)				M5	- / 4 *
Non-Cushion Stop	Heavy	Stop Retract	35 mm (1.38 in)	9 mm (0.35 in)	Spring	N/A	No	G 1/8	1/4 in



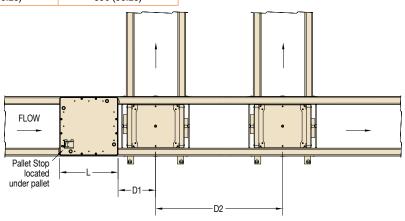


DualMove Pallet System Module Spacing

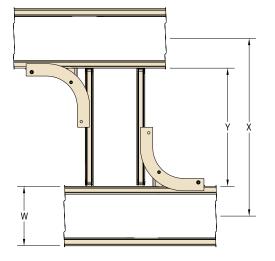
Pallet Stop to Lift & Locate			
Pallet Length L (mm)	Minimum Distance D1	Minimum Distance D2	
160	82 (3.23)	240 (9.45)	
240	122 (4.8)	320 (12.6)	
320	162 (6.38)	400 (15.75)	
400	202 (7.95)	480 (18.9)	
480	242 (9.53)	560 (22.05)	
640	322 (12.68)	720 (28.35)	
800	402 (15.83)	880 (34.65)	



Pallet Stop to Lift & Transfer				
Pallet Length L (mm)	Minimum Distance D1	Minimum Distance D2 Hardstop	Minimum Distance D2 Cushion	
160	99 (3.90)	283 (11.15)	283 (11.15)	
240	139 (5.47)	291 (11.45)	291 (11.45)	
320	179 (7.05)	371 (14.60)	371 (14.60)	
400	247 (9.72)	575 (22.64)	575 (22.64)	
480	259 (10.20)	531 (20.90)	531 (20.90)	
640	369 (14.53)	736 (28.98)	736 (28.98)	
800	449 (17.68)	896 (35.28)	896 (35.28)	



Parallel Conveyors with 90 Degree Corners			
Pallet Width W (mm)	Minimum Parallel Center Line X	Minimum Conveyor Length Y	
160	849 (33.42)	660 (25.99)	
240	929 (36.57)	660 (25.99)	
320	1009 (39.72)	660 (25.99)	
400	1089 (42.87)	660 (25.99)	
480	1169 (46.02)	660 (25.99)	
640	1329 (52.32)	660 (25.99)	
800	1489 (58.62)	660 (25.99)	



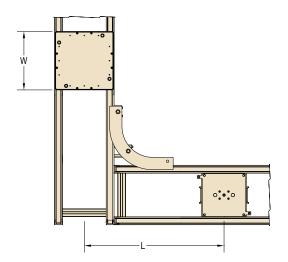




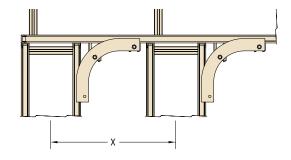


DualMove Pallet System Module Spacing *Continued*

Lift and Locate after 90 Degree Corner or Merge			
Pallet Width W (mm) Minimum Distance L			
160	504 (19.84)		
240	584 (22.99)		
320	664 (26.14)		



Multiple 90 Degree Corners and Merge		
Pallet Width W (mm)	Minimum Distance X	
160	514 (20.24)	
240	594 (23.39)	
320	674 (26.54)	



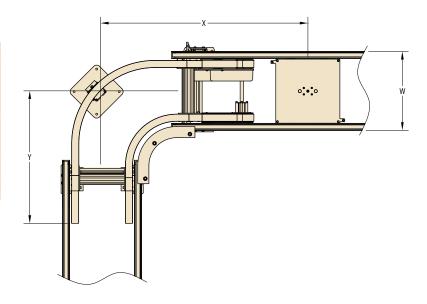
Note: Dimensions = mm (in)



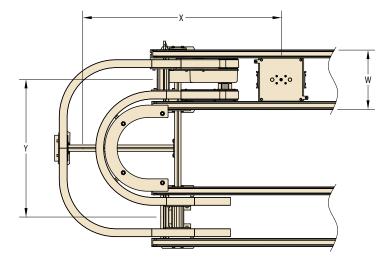


DualMove Pallet System Module Spacing *Continued*

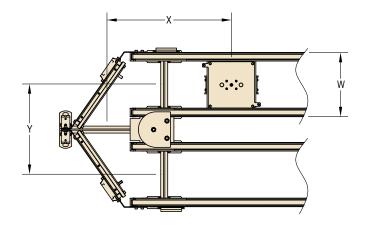
Heavy Load Corner – 90 Degree			
Pallet Width W (mm)	x	Υ	
320	1112 (43.8)	752 (29.6)	
400	1192 (46.9)	792 (31.2)	
480	1272 (50.1)	832 (32.8)	
640	1432 (56.4)	912 (35.9)	
800	1592 (62.7)	992 (39.1)	



Heavy Load Corner – 180 Degree				
Pallet Width W (mm)	x	Υ		
320	1150 (45.3)	775 (30.5)		
400	1230 (48.4)	855 (33.7)		
480	1310 (51.6)	935 (36.8)		
640	1470 (57.9)	1095 (43.1)		
800	1630 (64.2)	1255 (49.4)		



180 Degree Corner			
Pallet Width W (mm)	х	Υ	
160	495 (19.5)	331 (13)	
240	537 (21.1)	390 (15.4)	
320	662 (26.1)	470 (18.5)	



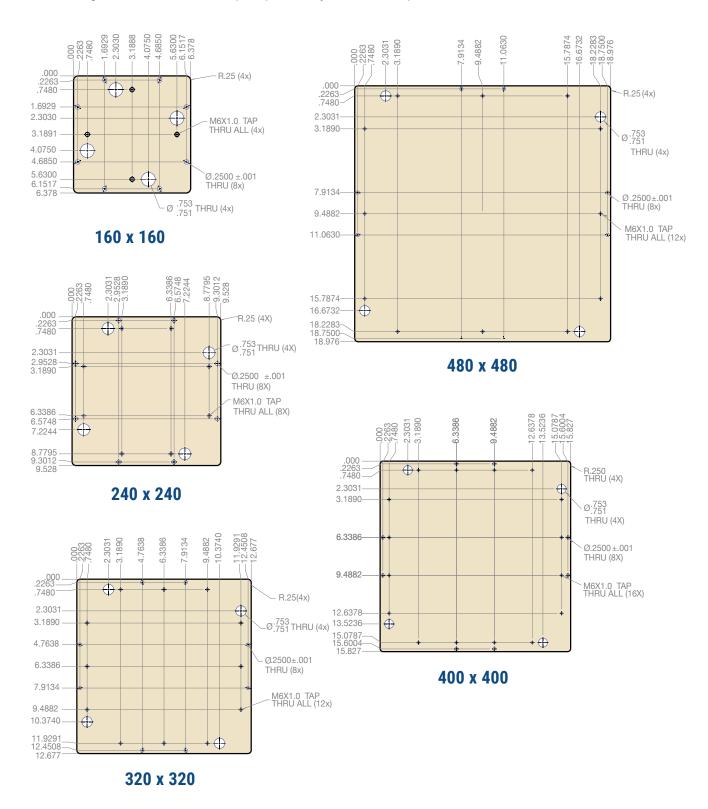
Note: Dimensions = mm (in)





Pallet Plate Details Dimensions

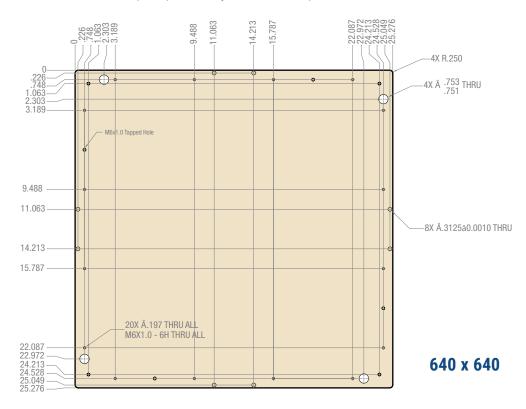
The following details are for standard square pallets only. For other size pallets contact Dorner.

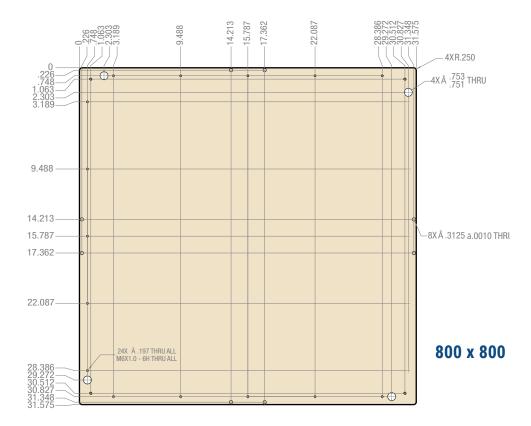




Pallet Plate Details Dimensions

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









By Columbus McKinnon



DualMove Pallet Systems are Best for:

- Medium to Large Size Part Movement
- Product Routing and Control
- Product Inspection

- Assembly Automation in:
- Automotive
- ElectronicsMedical

- Life Science Products
- Health and Beauty Products
- Appliance Products

Sizes & Measurements

- · Widths: 160, 240, 320, 400, 480, 640, 800 mm
- · Lengths: Up to 7500 mm (24 ft 7 in)

Loads & Speeds

- · Conveyor Load Capacity
 - o 1250 lbs non-accumulating
 - o 625 lbs accumulated
- · Pallet capacity of 30 to 100 lbs
- Speeds up to 66 m/min (216 ft/min)

Conveyors

- · Dual belt conveyors with common drive module
- 25 mm wide 10 mm pitch timing belt conveyor
- · Standard or static conductive belting available
- Aluminum extruded frame with universal T-Slot
- · Quick belt change without conveyor removal



Pallets

- 160 mm to 880 mm
- Industry compatible sizes and bushing locations
- · Static conductive pallet skirt
- · Square and rectangular sizes available
- Pallets available as kits or completed assemblies

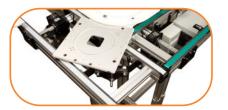




Modules



Lift & Locate



90 Degree Corner



Lift & Rotate



90 Degree Corner & Merge



Lift & Transfer



Cushioned Pallet Stop (Non-cushioned also available)





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



CONVEYANCE SOLUTIONS





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