





General Characteristics of Push-Back Pallet Rack

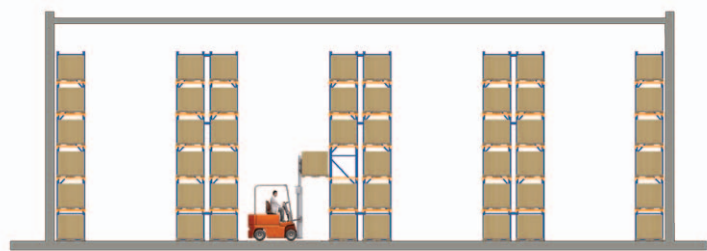
The Push-Back pallet racking is a high density storage solution that uses heavy-duty carts to form two-, three-, or four-pallet-deep configurations. The pallets are arranged so that when storing pallets the last one in is the first one out (LIFO). Each independent flow lane provides clear access to pick facings, making multiple SKU storage easy and efficient.

Pallets in the Push-Back system are loaded from the front of the rack onto free rolling, telescoping carts that are pushed back into the system as additional pallets are added. As pallets are removed, gravity moves the remaining pallets forward, eliminating the need to reach or drive into the rack and decreasing the risk of rack damage.

The layout advantages of the Push-Back Rack

There is no wasted space with Push-Back. Because of the increased depth of the system, Push-Back minimizes the number of aisles needed to access product, creating a high-density, high-efficiency storage solution.

As pallets are removed, gravity pulls the remaining pallets forward, ensuring that the front pallet position is always filled. This makes pallet extraction simple.



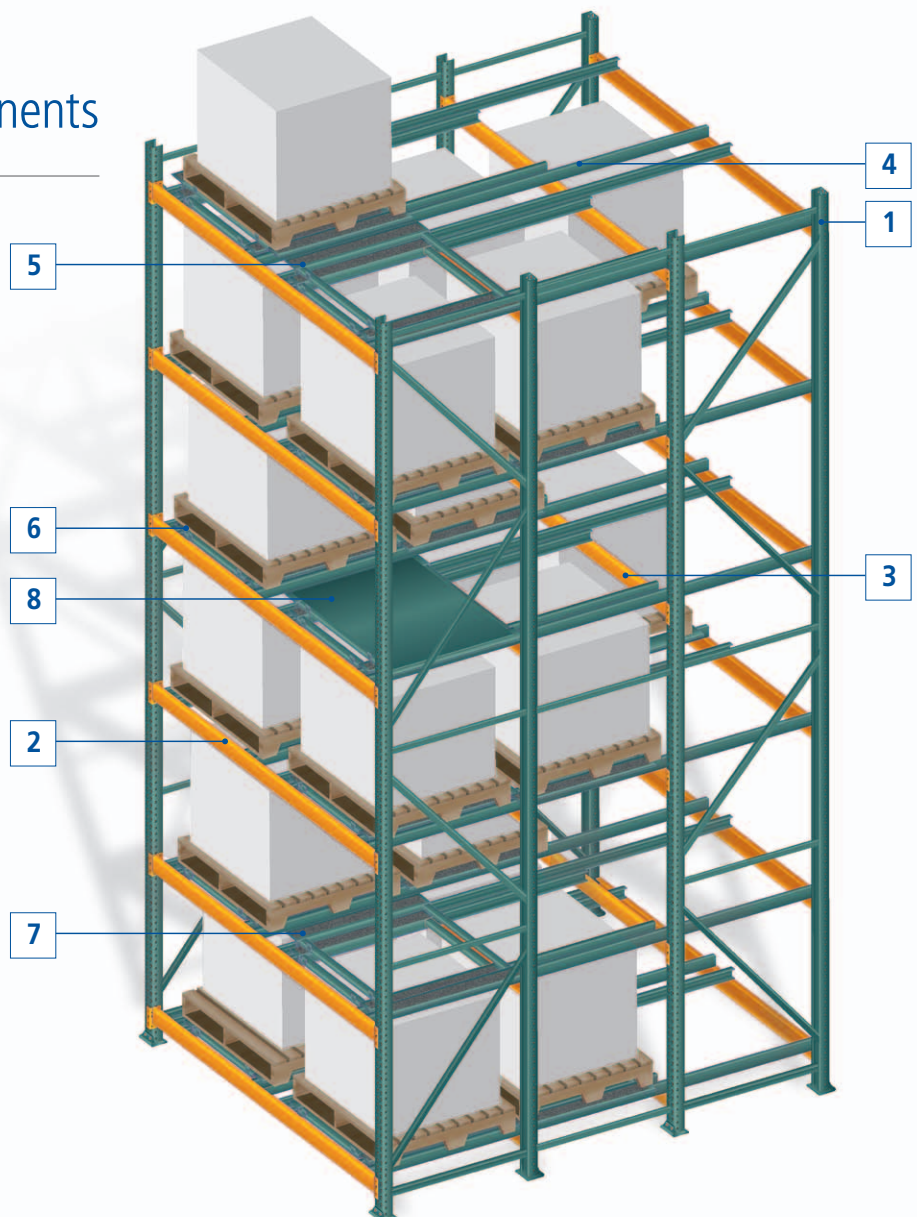
Conventional pallet rack layout



Four-deep Push-Back layout

Push-Back Rack Components

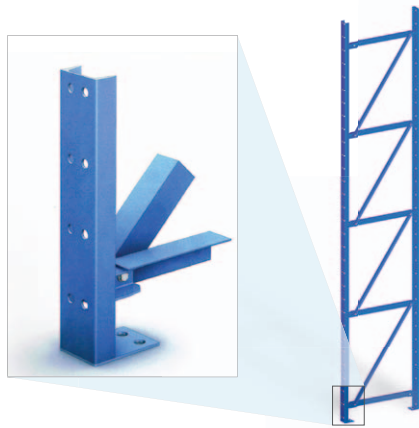
The Push-Back system consists of carts and rails set within a supporting structure of frames and beams. The supporting structure can be either welded or bolted using standard pallet rack components for maximum flexibility and lower cost. Carts can be selected to be two-, three- or four- deep, depending on the application and space requirements.



- 1/ Frame
- 2/ Front beam
- 3/ Intermediate beam
- 4/ Rails
- 5/ Cart
- 6/ Pallet stops
- 7/ Skid resistant surface (optional)
- 8/ Full cart cover (optional)

Frames

Frames are available in welded or bolted options and consist of two posts, horizontal and diagonal struts, and foot plates. Posts are available in a variety of gauges, lengths, configurations for seismic zones and vertical bracing made to be more resistant to twisting, separating and axial loading. Hole punches for beam insertion are placed along the post in 2-inch intervals. For loads requiring heavy duty support, structural frames are also available.



Structural frame: available in welded or bolted



Welded frame



Bolted frame

Beams

The beams are the horizontal rack components on which the Push-Back carts and rails are placed. Beams are equipped with Piston Lock end plates. These lock the beam into the post hole punches and are designed to prevent accidental collapse. For structural frame options, the end plate is bolted directly onto the posts. Interlake Mecalux uses an extensive range of beams in order to meet capacity, load type, and spacial dimension needs.



Beam with Piston Lock end plate



Beam with structural end plate

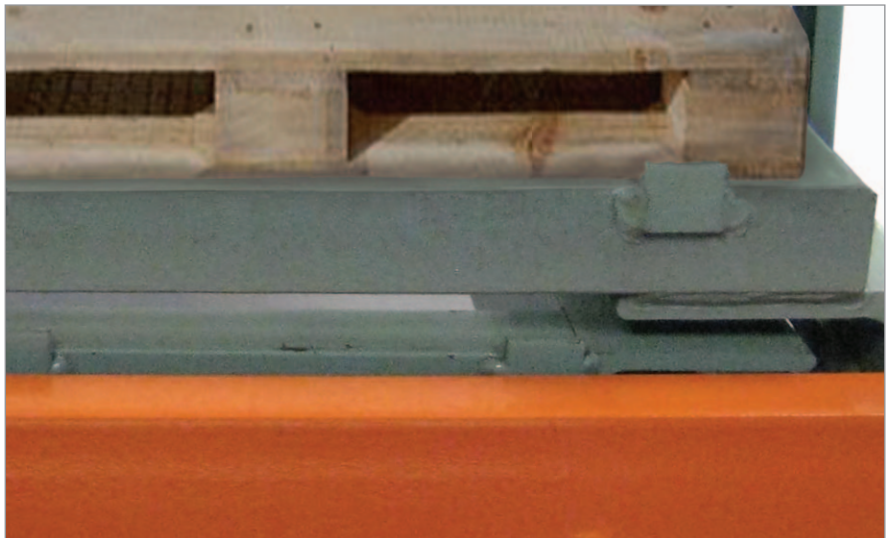
Safety stops

Both rails and carts rest on beams installed to provide the proper slope for easy cart movement. The front beams are equipped with safety stoppers, cushioning cart movement at the end of the rails.



Pallet stops

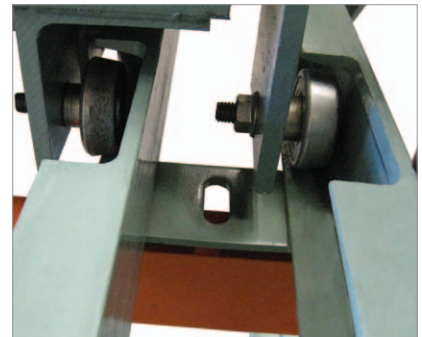
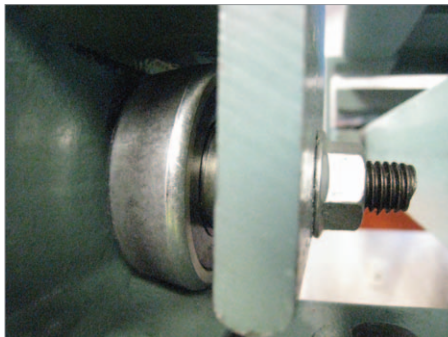
Pallet stops are designed to minimize the forward momentum of the pallets as they move back and forth. Welded directly onto the front of each cart, pallet stops help ensure the safety of each pallet position.

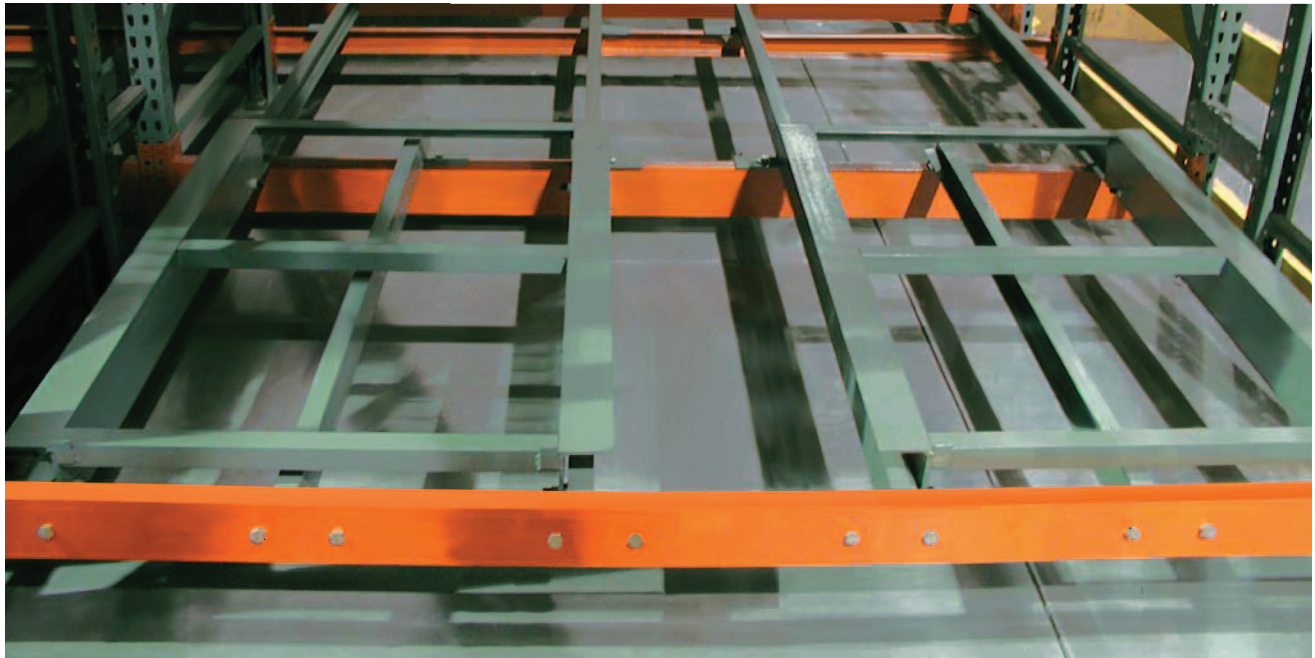


Wheels and rails

Each cart is equipped with four electro-galvanized steel wheels, especially designed for durability and ease of movement.

Single piece structural steel channels serve as rails for each cart's wheels. These are installed at a pitch designed to maximize proper movement and eliminate derailment. Each channel is notched to allow cart installation or removal.





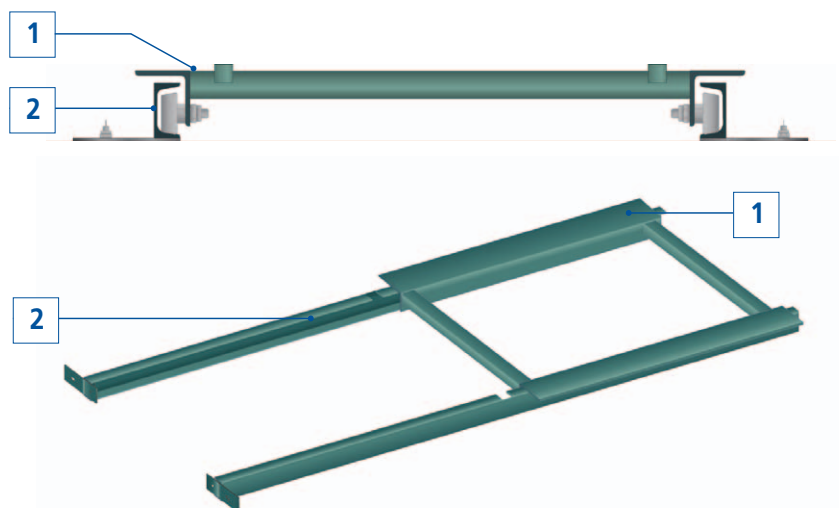
Carts

Our welded structural steel Push-Back carts are designed for heavy-duty applications. Each standard Push-Back cart carries a standard load of up to 3,000 lbs. The only variance between the two-, three-, or four-pallet deep configurations are the number of the carts and rails.



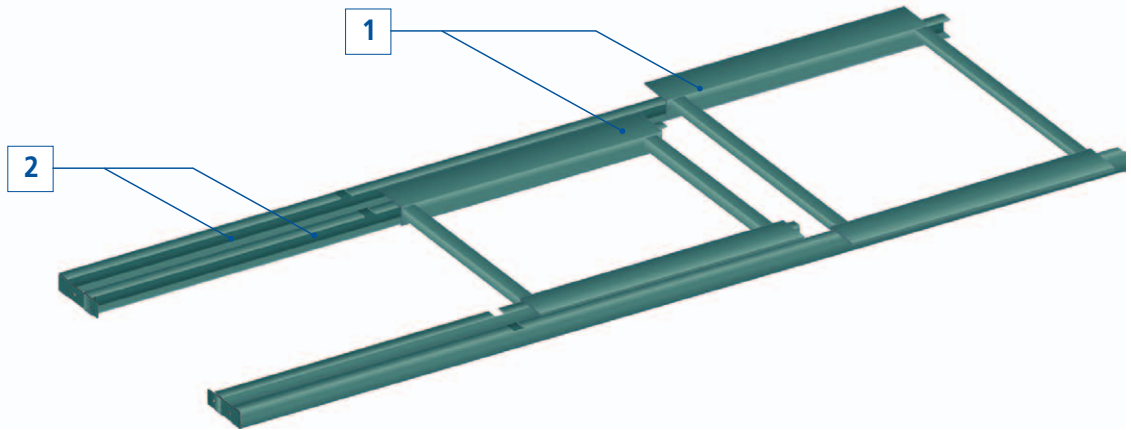
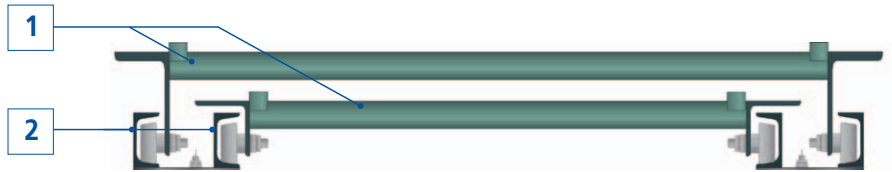
Assembly for two-pallet depths

This assembly has two rails and one cart. The first pallet rests on the **cart (1)** and the second one directly on the **rails (2)**.



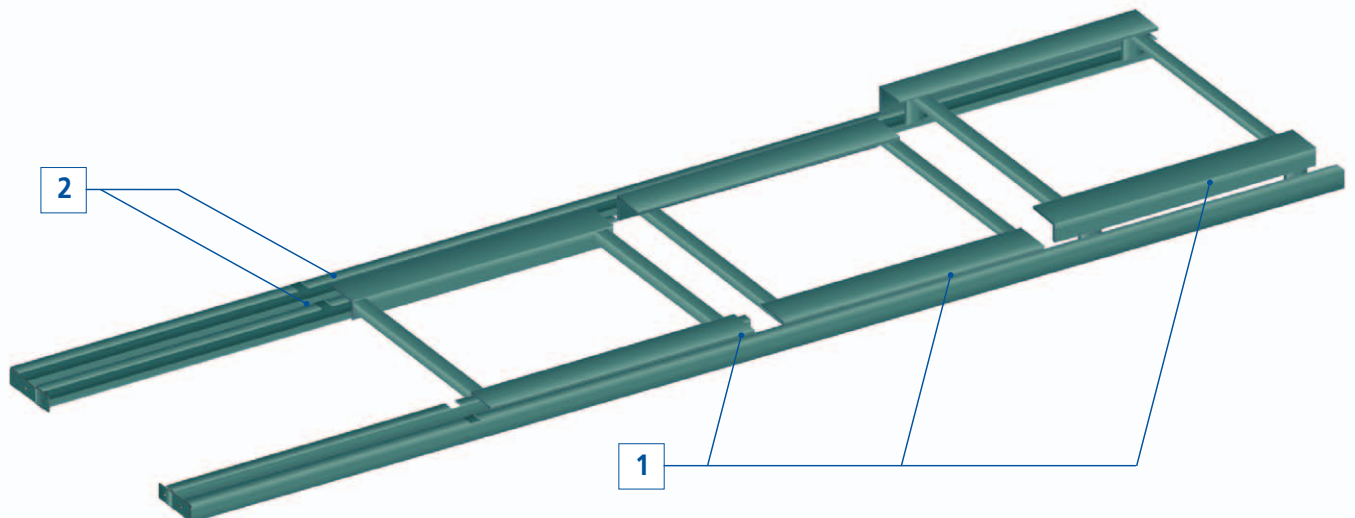
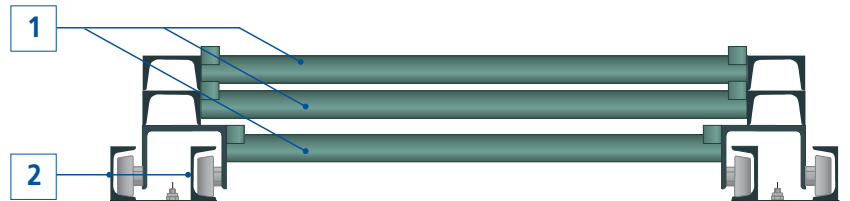
Assembly for three-pallet depths

This system incorporates two **carts (1)** and four **rails (2)**. The first and second pallets are stored on the carts and the third rests directly on the rails.



Assembly for four-pallet depths

The assembly has four **rails (2)** of different lengths and three carts. The first, second and third pallets are stored on **carts (1)** and the fourth rests directly on the tracks.



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