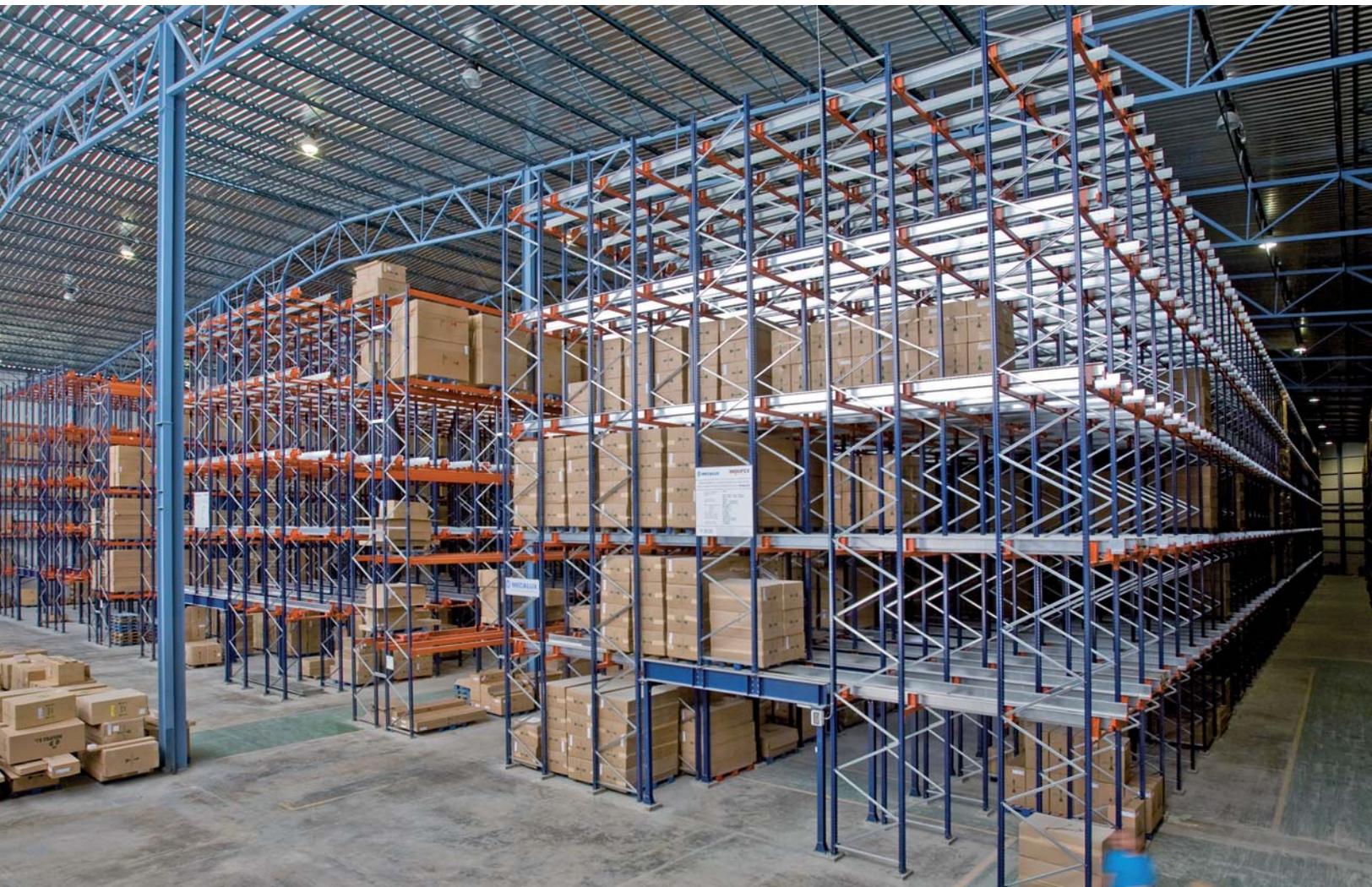




Drive-In/Drive-Thru Pallet Rack

Maximize the use of space within a warehouse

interlake
 **MECALUX**



Drive-In/Drive-Thru Pallet System

The Drive-In/Drive-Thru system is ideal for storing homogeneous products with a large number of pallets per SKU.

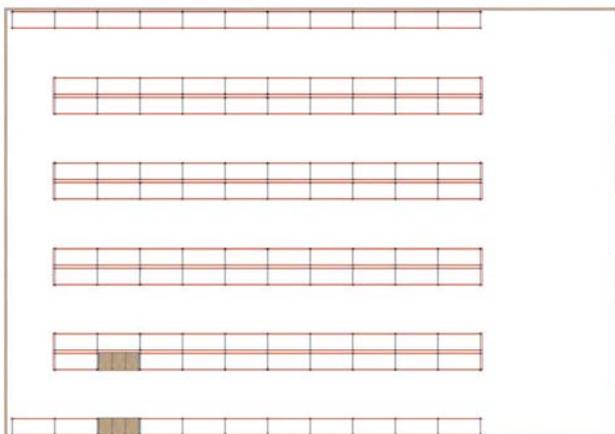
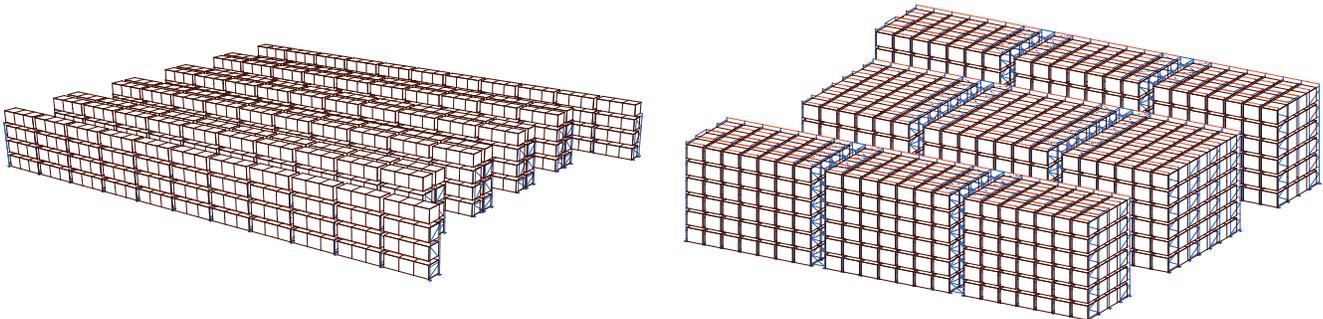
The Drive-In / Drive-Thru system maximizes the use of space within a warehouse, storing up to 75 percent more pallets than standard pallet rack. Products stored in a loading lane should have the same SKU to avoid unnecessary pallet handling.

With the load raised slightly above the level on which it is to be deposited, forklifts enter the system and deposit pallets on support rails. This action is repeated at various levels. This system offers a highly dense storage option.

The depth of each lane will depend on the number of pallets per SKU, the occupied space and the length of time they will be stored.

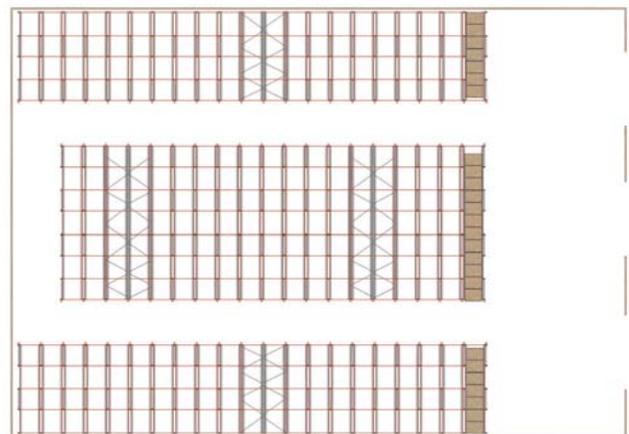
The Drive-In/Drive-Thru Pallet Rack system is highly customizable. If your ideal solution is not found in this catalog, please contact an Interlake Mecalux representative to evaluate further options.

Drive-In/Drive-Thru's capacity is greater than that of Selective Pallet Rack, as reflected below.



Selective distribution:

The total square footage of this warehouse is 2,814.96 ft². Its storage capacity is 306 pallets per level



Drive-In/Drive-Thru distribution:

Using the same square footage, but now with an increased storage capacity of 522 pallets per level

Forklift Clearances

When forklifts are moving inside the storage lanes, it is necessary to calculate the clearances needed for them to work safely. There are certain measurements that should be kept in mind when designing the system:

- A. Total width of the forklift
- B. Protective structure for the operator
- C. Height of the forklift base
- D. Height of the forklift protector
- E. Maximum elevation height

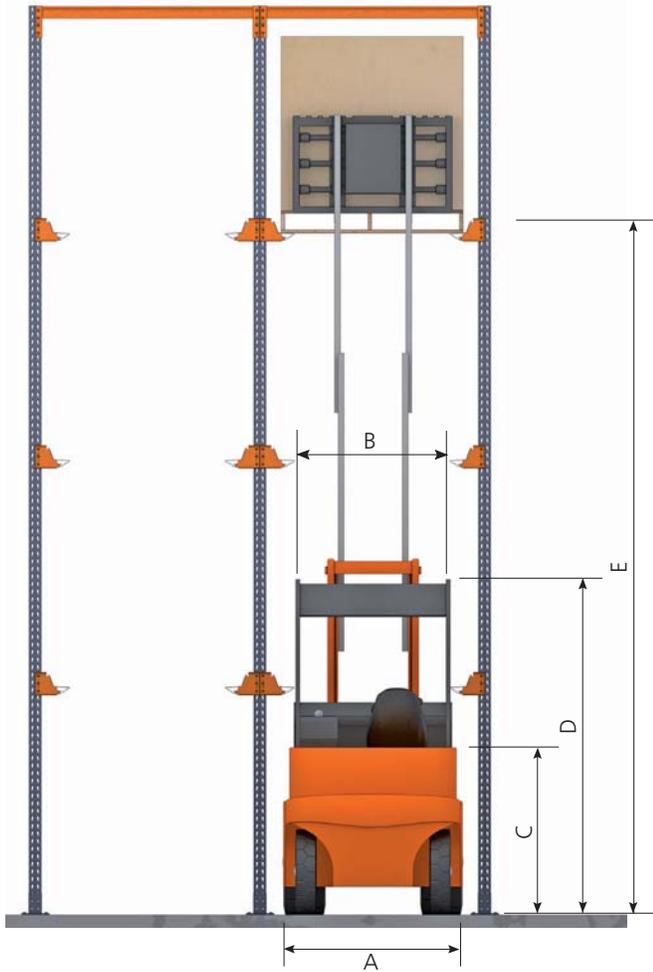


Figure 1: The stabilizing systems in Drive-Thru pallet rack include rigid frames, top tie beams with cross bracing and rigidity lanes.

Rack Stability

Rack stability must be guaranteed, both crosswise and lengthwise.

Longitudinal stability in the Drive-In/ Drive-Thru system is ensured through the rigidity of the frames and the diagonal bracing bars.

Transverse stability

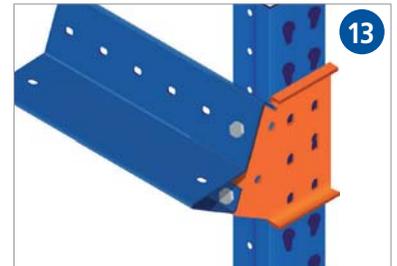
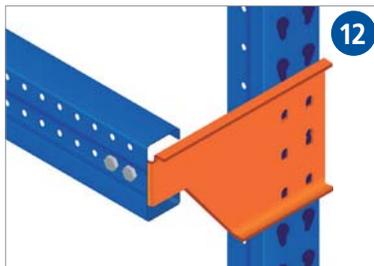
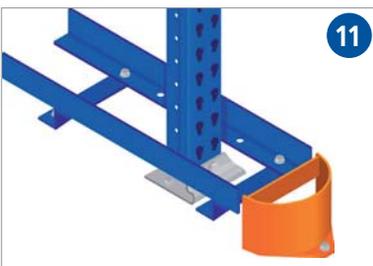
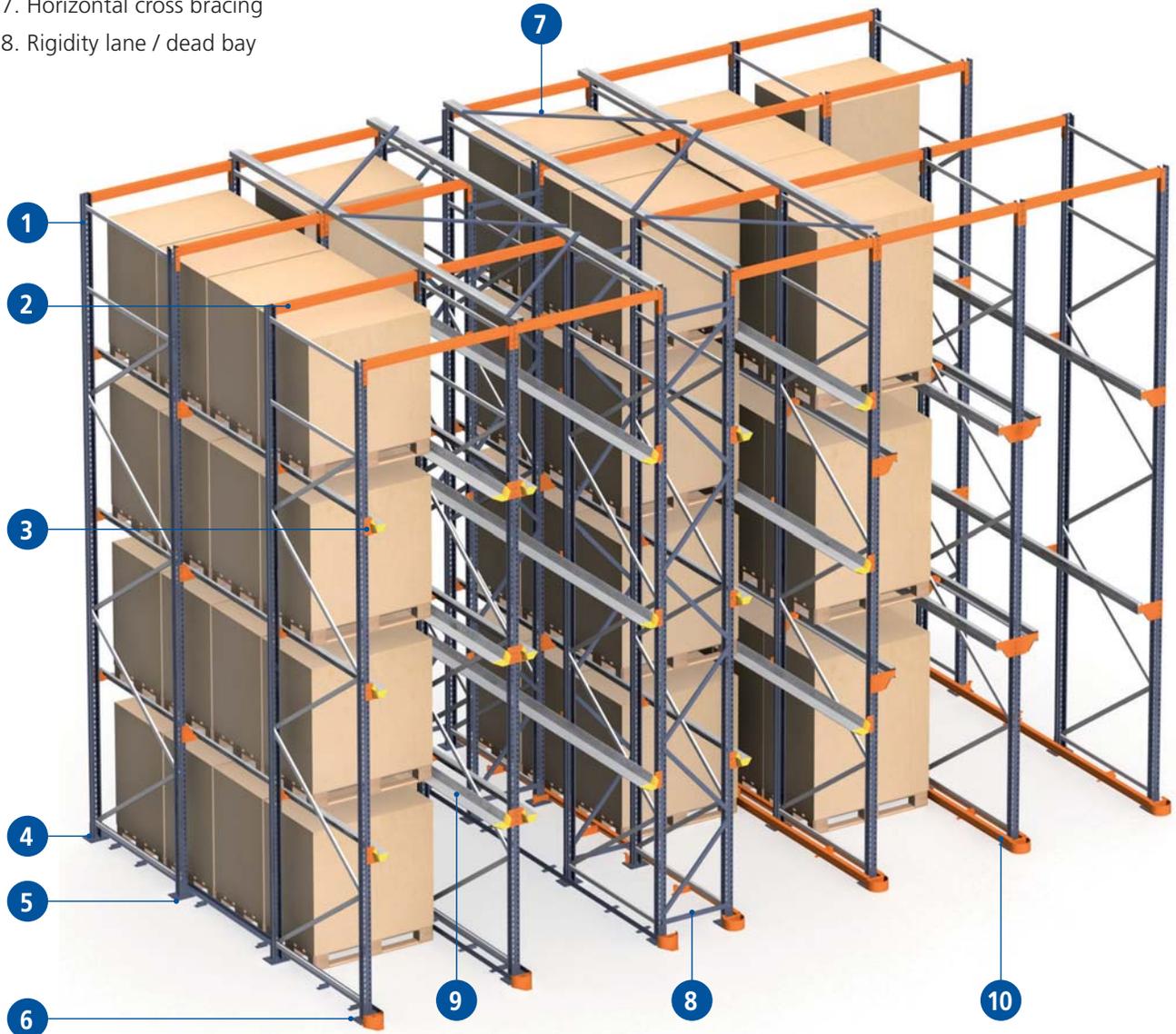
Perpendicular to the storage lanes, the transverse plane of the Drive-In/ Drive-Thru system is stabilized with top tie beams and horizontal cross bracing. Drive-In uses vertical cross bracing along the back of the system as an additional means of adding transversal stability (Figure 2), while the Drive-Thru system frequently adds rigidity lanes also known as dead bays (Figure 1).



Figure 2: The stabilizing systems in Drive-In pallet rack include rigid frames, top tie beams with cross bracing and vertical cross bracing along the back of the system.

Basic Components

- 1. Frame
- 2. Top tie beam
- 3. Arm
- 4. Foot plate
- 5. Shim
- 6. Anchor
- 7. Horizontal cross bracing
- 8. Rigidity lane / dead bay
- 9. Rail
- 10. Guide rail (optional)
- 11. Guide rail detail
- 12. C-Type rail and arm detail
- 13. GP4 arm and GP5 rail detail



Post Types



Bolted



Welded



Welded Structural

Accessories

A variety of accessories are available for Drive-In/Drive-Thru rack systems. From pallet stops to column protectors, Interlake Mecalux has accessories to meet any need. For a complete list of accessories, please contact your Interlake Mecalux representative.



End aisle protector



Post protector



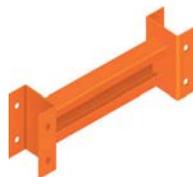
Welded and bolted post protector



Protect.R.Guide



Welded and bolted row spacers



Rigid row spacers



Fixing Frame Clips



Corner protector



Pallet Centralizer



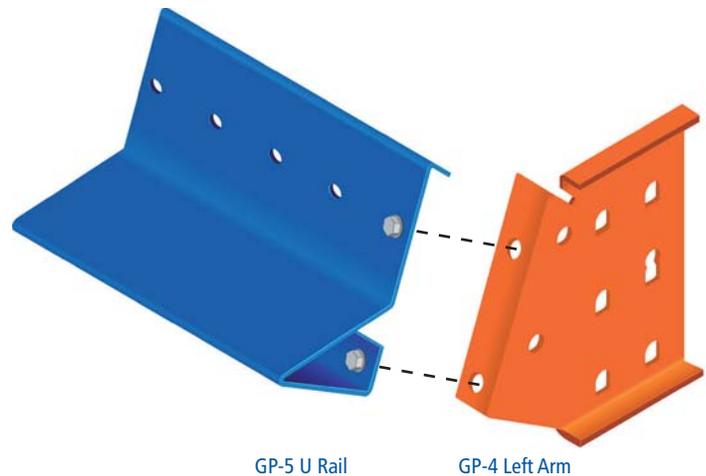
Bolted Rails and Arms

Rails are roll formed pieces of metal that support the pallets in the Drive-In/Drive-Thru system. They run horizontally through each level of a bay. Two are required per level. Rails also act as guides for the forklift trucks, so they do not crash into the system. Loads must never be dragged across the rails.

Rails come in a few variations. Some rails are end hung, meaning they are attached to the side of the arm. Other rails are top mounted, meaning they are latched to the top of the arm and hung over the side.

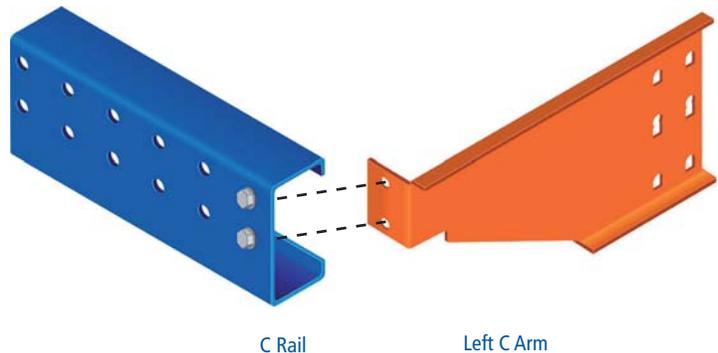
GP-4 Arm/GP-5 U Rail

The GP-4 arm/GP-5 rail are the most standard and cost effective option for a bolted Drive-In/Drive-Thru system. Rails are made of a roll formed steel profile that gives them a unique shape for catching the pallet in case it is not placed evenly in the bay. It is drilled every 2" along the length of the face of the rail, making the system very versatile and easy to adjust, if necessary.



C Arm/C Rail

C rails are the alternative rail option for bolted Drive-In/Drive-Thru systems and are used with C arms. This C-shaped rail has a flat top that accommodates pallets of varying sizes. These rails are manufactured in standard lengths of up to 461" (38'-5"). The lengths of these profiles, the clearances between pallets, and the lengths of the aisles are the same as those of the GP-5 rails.





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