



Flow-Rail Pallet Storage System



Flow-Rail is a high-density pallet storage system operated using conventional fork-lift trucks.

It is a non-motorized, last-in/first-out system that can hold from 3 up to **10** pallets deep with **rails that are not inclined.**



Flow-Rail offers great benefits:

Can be installed on existing selective racks or drive-in.

Rails are horizontal, not angled.

Tracks only 3.5"H.

System does not derail or block.

Each lane can hold a different product SKU.

Easy to load / unload pallets.

No parts to replace, minimal maintenance.

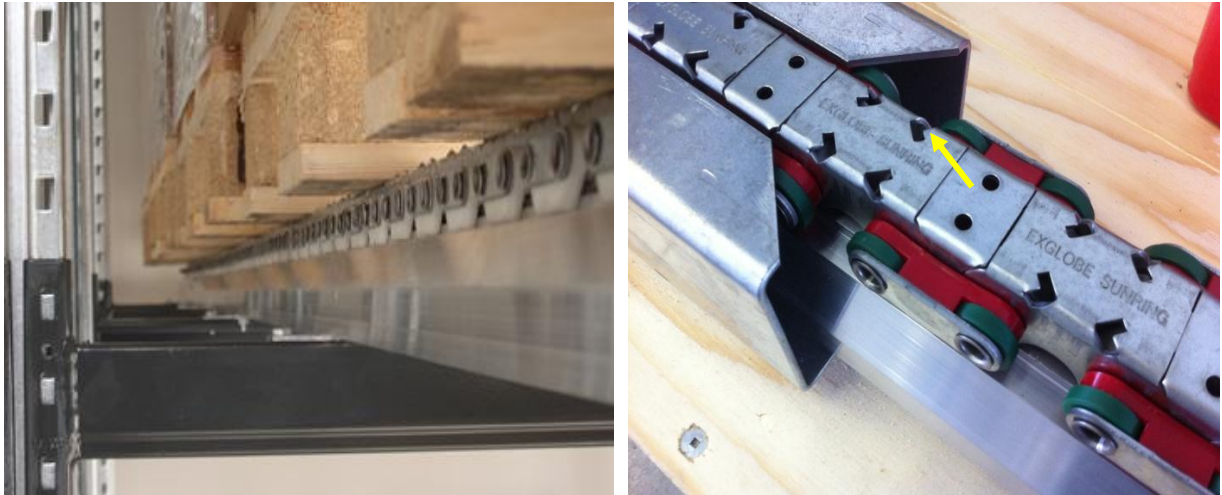
Can be installed in coolers & freezers - up to -22°F (-30°C) / rust-proof.

Track length easy to modify.

Flow-Rail can hold up to 10 pallets deep!



Flow-Rail is a chain system that slides on aluminum tracks.



How the system operates:

First pallet is loaded onto the tracks. Second pallet pushes against the first one which makes the chains turn. Subsequent pallets loaded same way.

When pallets are unloaded, chains slide in the opposite direction. Driver uses forks to tilt front pallet. (see photo) In back, pallet still sits on the chains - notice the small, sharp teeth.

When driver backs-up, weight of the pallet being pulled + force of the lift makes chains turn. As front pallet exits the system, pallets in back automatically come forward.



Flow-Rail vs. Push-Back

Push-Back manufacturers typically offer systems up to **6** pallets deep. Flow Rail can hold up to **10** pallets.



Push-Back



Flow-Rail



Contrary to Push-Back, Flow-Rail systems are not inclined which reduces overall system height.



Push-Back

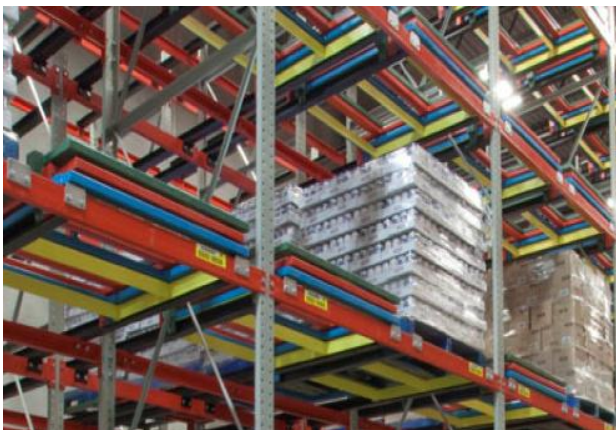


Flow-Rail



Sometimes, an entire storage level is lost because of angled rails in Push-Back.

Accumulation of carts also increases height of Push-Back rack structures. If a client replaces selective racks with Push-Back, it may happen that lift trucks are unable to extend forks high enough to load / unload the top level.

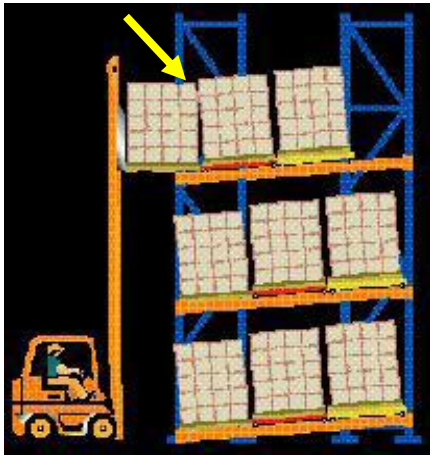


Push-Back 4 pallets deep



Flow-Rail 3 to 10 pallets deep

In most Push-Back systems pallets sit at an angle. Notice below point of contact between horizontal pallet on the lift truck forks and angled pallet inside Push-Back. Goods or packaging may be damaged due to excess pressure.



Push-Back



Flow-Rail

With Flow-Rail goods are always on a horizontal plane: Much lower risk individual boxes will fall or drift when pallets are in movement. Pallets can also be double-stacked.



Flow-Rail is an effective solution to store many types of product regardless of shape or physical form. For extra large sizes, multiple tracks can be used.

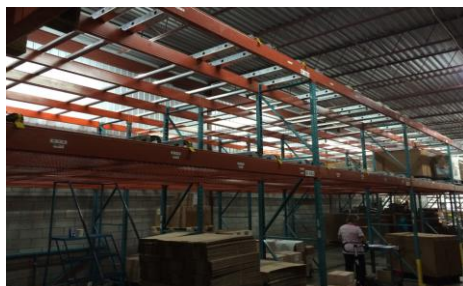


Third rail can also be added for weak pallets or very heavy loads.



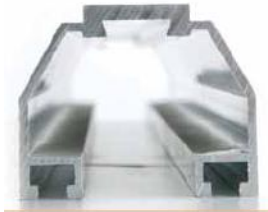
Push-Back carts can occasionally derail or block. Flow-Rail is a different type of system that cannot derail and will not block.

Since Flow-Rail has no pitch existing beams and uprights and beams can all be re-used.





Flow-Rail Components



Aluminum rail:

Its lightness simplifies transport and assembly.



PA6 side chain guides:

Guarantees low friction and high strength even at low temperatures.



Roller bearings:

Lifetime lubrication.



Steel:

Sendzimir galvanised.

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