

LOGISTIC STORAGE SOLUTIONS



High Rise Storage



Mobile Rack



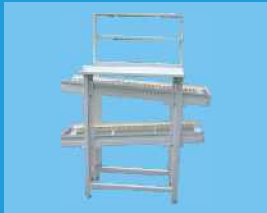
FIFO Storage Rack



Mould Rack



FPO Bin Trolley



On Line FIFO



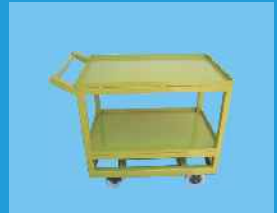
Pallet



Assembly Table



Tool Cabinet



Platform Trolley



CNC 'A' Type Trolley



Sheet Storage Rack



Mezzanine Floor



Auto Store Lift



Roller Track



Roto Store



Industrial Lockers



Conveyor



Pipe & Joint



Castors



FIFO Storage Rack

FIFO STORAGE SOLUTION

According to the FIFO Principle for storage goods are stored First-In and First-Out. In FIFO storage, goods are loaded at the rear side & are picked at the front.

More time saving in goods picking and also reduction of traveling time.

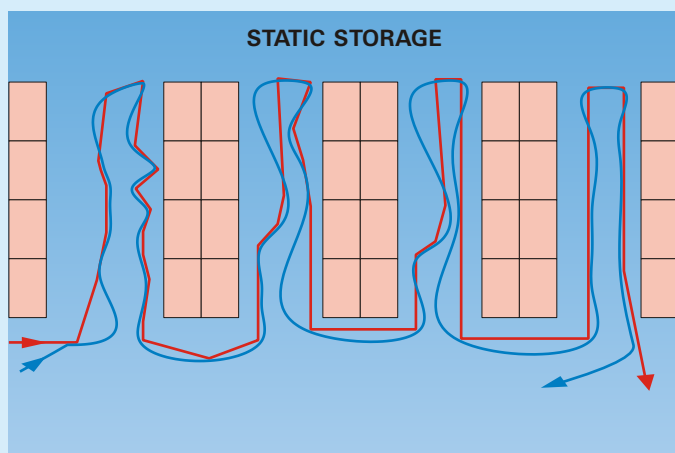
Save up to 40% of space by eliminating of gangways.

Roller tracks used as gravity to move material towards front without manpower.

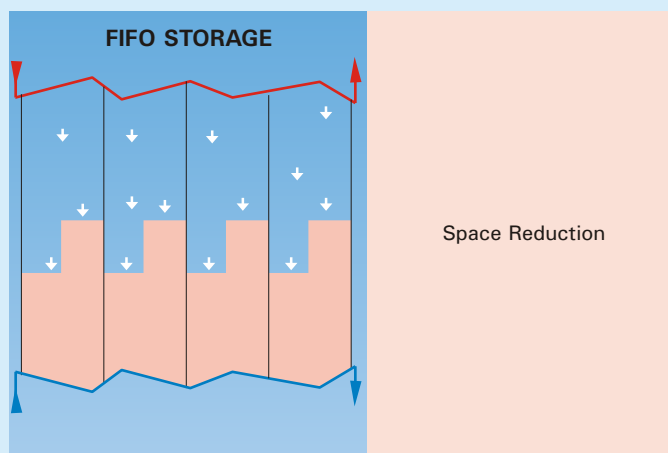
Increased Productivity on different locations for loading & unloading.

Direct access to the picking on front.

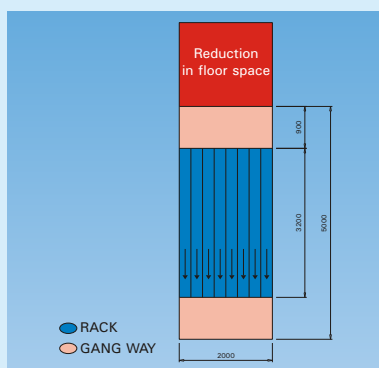
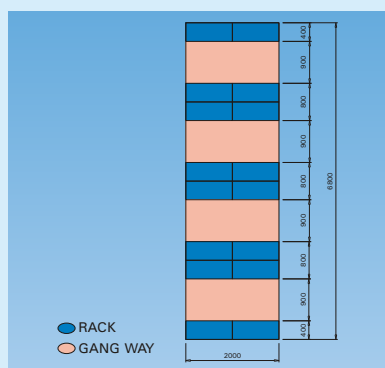
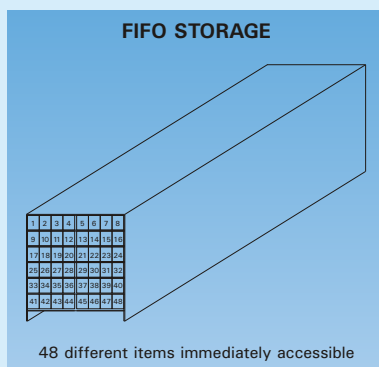
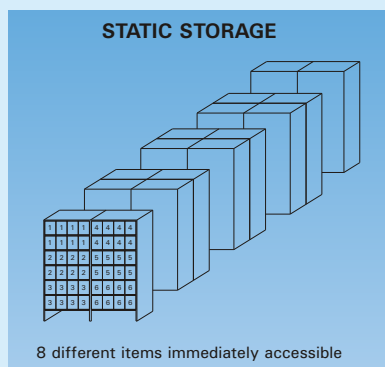
Excellent visibility & fast access.



→ Loading Area → Picking Area



→ Loading Area → Picking Area → Space Reduction



Comparison of Static Storage & FIFO Storage

In FIFO Storage, we access all 48 items at one time against (8 x 6) racks items in the static storage.

In FIFO Storage, Travel time is 10% of static storage.

In FIFO Storage, we save 40% of floor space against static storage.

Benefit by FIFO Storage there is no interference

FIFO Storage Solutions

- Modular system especially designed to reduce the transportation cost and the process control.
- Main Module & Add On Module design also available.
- Roller Tracks can be easily adjusted in every 10 mm or 12.5mm pitch depending upon the Bin Lengths.
- Levels (Shelf) can be adjusted depending upon the Bin heights.
- Standardized storage solution of Plastic Bins.
- Special sections designed by Metafold for safety storage.
- Each level can carry between 100 kg to 800 kg depending upon the size.
- As per ergonomic norms, each bin weight is assumed between 15 to 20 kg with factor of safety as 2.0 for roller tracks.
- Five different variants of Roller Tracks are specially designed by Metafold.

Standard Module

Shelf Depth

Part Name	No. Bins Storage	Bin on Depth (mm)			
		300	400	515	600
Side 'C' Channel	1 BIN	-	-	-	663
	2 BIN	663	863	1113	1263
	3 BIN	963	1263	1638	1863
	4 BIN	1263	1663	2163	2463
	5 BIN	1563	2063	2638	3063
	6 BIN	1863	2463	3163	3663
	7 BIN	2163	2863	3688	4263
	8 BIN	2463	3263	4188	4863
	9 BIN	2763	3663	4713	5463
	10 BIN	3063	4063	5213	6063

Frame

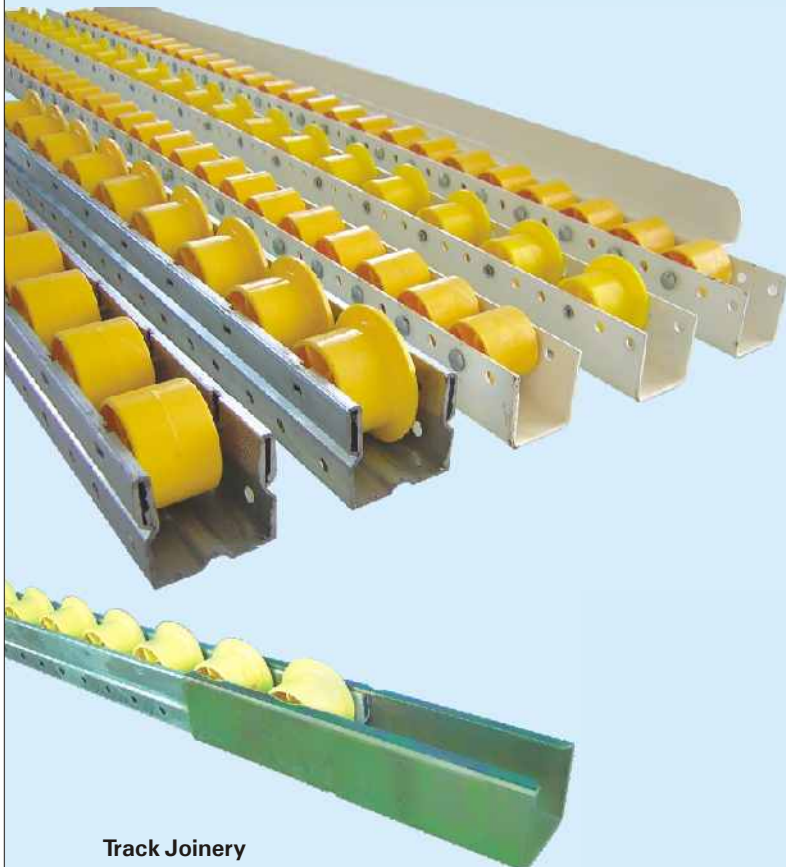
Frame Depth (mm)	Frame Height (mm)		
	1500	1800	2000
	Product Code		
500	Ise02893	Ise02900	Ise02907
600	Ise02894	Ise02901	Ise02908
700	Ise02895	Ise02902	Ise02909
800	Ise02896	Ise02903	Ise02910
900	Ise02897	Ise02904	Ise02911
1000	Ise02898	Ise02905	Ise02912
1200	Ise02899	Ise02906	Ise02913

Finish : Powder coating
 Frame : Deep Blue
 Tie Member : Deep Blue
 Shelf, Roller Track : Ivory Glossy

Shelf

Part Name	Bin Storage	Angle Track (10 mm pitch)				Flange Track (10 mm pitch)				Rolled Track (12.5 mm pitch)			
		Front of Bin											
	BIN SIZE	200	300	400	600	200	300	400	600	200	300	400	600
• Front Member	1 BIN	-	390	490	690	-	390	490	690	-	390	490	690
• Back Member	2 BIN	520	750	980	1380	520	750	980	1380	520	750	980	1380
• Tie Member	3 BIN	750	1050	1380	-	750	1050	1380	-	750	1050	1380	-
	4 BIN	980	1380	-	-	980	1380	-	-	980	1380	-	-
	5 BIN	1210	-	-	-	1210	-	-	-	1210	-	-	-

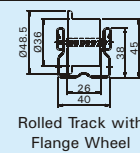
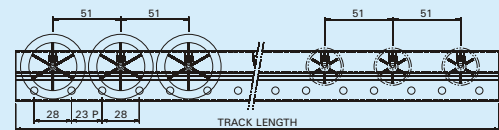
Roller Track*



Track Joinery

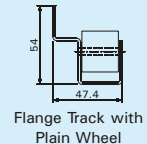
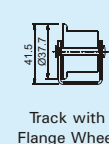
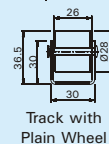
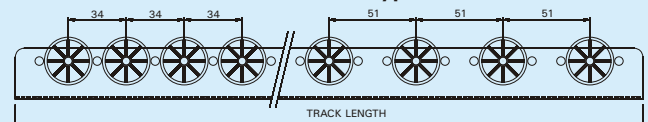
For longer depth of storage rack, Roller track is joined by track joinery. It helps to multiple joint on roller track. Two types of track joinery are used for

Roller Track (Type-A)



Wheel pitches for both plain wheel & flange wheel are 51mm
Roller Track (Type-A) using for Model-II Fifo Rack

Roller Track (Type-B)



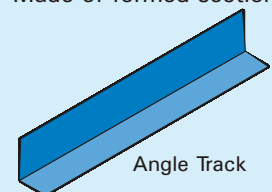
Wheel pitches for plain wheel are 34/51/68 mm
 Wheel pitches for flange wheel are 51/68 mm
 Metafold Standard supply 34 mm pitch

Roller Track (Type-A and Type-B) using for Module-I Fifo Rack

Metallic Roller



Made of formed section



*For more details refer roller track Product No. 15

FIFO Storage Rack with Formed Section (Model - I)



Basic Components

1. Frame :

The frame consist of two uprights, which are connected by bolts & nuts, to the horizontal member & diagonal members. The uprights designed on 'C' Profile with two sides punching on pitch of 10 mm. Diagonal members are provided to maintain the squareness.

2. Shoe plate :

Shoe plate are provide to facilitates anchoring to floor, with plastic shoe to avoid damage of painted floor.

3. Shelf :

The shelf consist of Front member, Back member, Side 'C' channel, along with Support 'C' Channel for heavier loads.

Front & Back member specially designed with adjusting of roller tracks of 10 mm / 12.5 mm Pitch , provides storage of multiple Bin sizes.

Side 'C' channel connected by bolts, nuts to the upright frames. The shelf frame by side 'C' channel which takes the entire load.

Side 'C' channel joinery also available on longer depth.

4. Red corner Cap :

Projection of shelf out of frame, helps easy access of bin. These

corners are marked by highlighter to avoid any damage to operator.

5. Tie Member :

Tie member is connected by bolts, nuts to the two upright frames. To maintain the squareness of the rack.

6. Brake strip for roller track :

The brake strips are provided to reduce the traveling speed of the bin.

7. Display :

Display on individual racking is also available in A3 plastic folder for suspending on the rack.

Advantages

1. Shelf Adjustment is possible at only 10 mm pitch
2. Individual shelf is adjustable on 4 bolts and nuts.
3. Extension of the shelf is indicated with red highlighter as per the safety norms.

FIFO Storage Rack with Rolled Section (Model - II)



Basic Components

1. Frame :

The frame consists of two uprights, are is welded together by horizontal member and diagonal member. The 8 fold bottle section upright made of cold rolled sheet, equally spaced cylindrical slots at 50 mm pitch on upright.

2. Shoe plate :

Shoe plate are provided to facilitate anchoring to floor, with plastic shoe to avoid damage of painted floor.

3. Shelf :

The shelf consists of front member, back member along with support 'C' channel.

Front member, Back member specially designed with adjusting of roller track of 12.5 mm pitch, provides storage of multiple bin sizes. They are welded with connector to take heavier loads.

4. Tie Member :

Tie member is inserted into slots on both upright frames, to maintain the squareness of rack.

5. Locking Pin :

Locking provided to each front member, back member and tie member for locking. One locking pin is supplied for every interlocking connector.

6 Name Plate :

Name plate ('C' section) made of steel sheet, with 30 mm (Inner to Inner) to insert stickers.

7. Display :

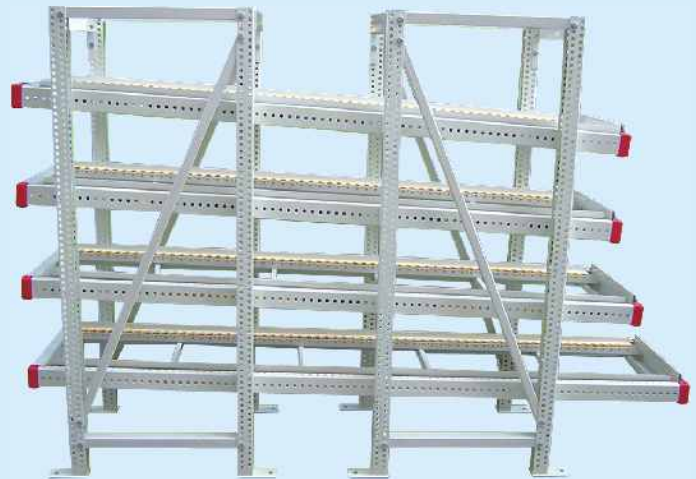
Display on individual racking is also available in A3 plastic folder for suspending on the rack.

Advantages

1. Shelf Adjustment is possible at only 50 mm pitch.
2. Easy to modify each shelf without Bolts.
3. Cost Cheaper than Model - I.
4. Easy to convert into PLC Base.
5. Advantage in Longer Depth.



FIFO Main & Add on Module with MS Shelf



FIFO Main Module of 4 Levels with Roller Track



FIFO Main Module of Roller Track with Front Shelf



FIFO Main Module of 3 Levels with Metallic Roller



FIFO Main Module of Angle Track with Top Return Cover



FIFO Main Module of (2 + 1 Return) Levels with Roller Track



FIFO Main & Add On Module of 5 Levels with Roller Track



FIFO Main & Add On Module of 5 Levels with Roller Track