

HEAVY DUTY RACKING SYSTEMS

Page 51- 93

IDEAL FOR SPACE

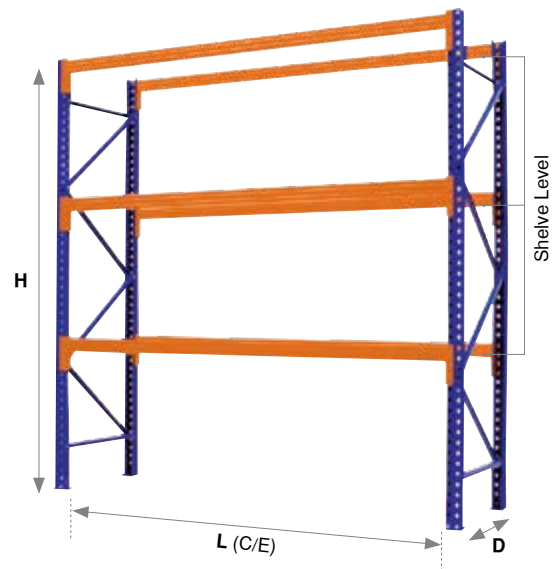




TTF Selective Pallet Racking System is constantly in demand by all warehousing facilities requiring palletized storage and handling. The system allows instantaneous access to store articles without incurring load crushing.

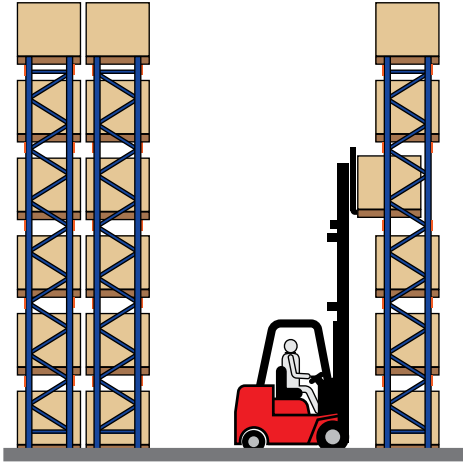
The **TTF Selective Pallet Racking System** offers an excellent stock rotation function and only uses 40% of warehouse floor space. With a maximum uniformly distributive load (UDL), the **TTF Selective Pallet Racking System** is able to withstand loads from 1000kg ~ 3000kg. Effective, economical and flexible, **TTF Selective Pallet Racking System** is the solution to increase warehouse productivity.

The **TTF Selective Pallet Racking System** can be setup in single and double-sided runs to suit all forklift and hand pallet trucks. Depending on aisle width and maximum load height, **TTF Selective Pallet Racking System** offers a low start-up solution. The **TTF Selective Pallet Racking System** is packed with features for maximum versatility. With features like drum stoppers and frame guards, the system meets strict safety requirements of today's modern warehouse.



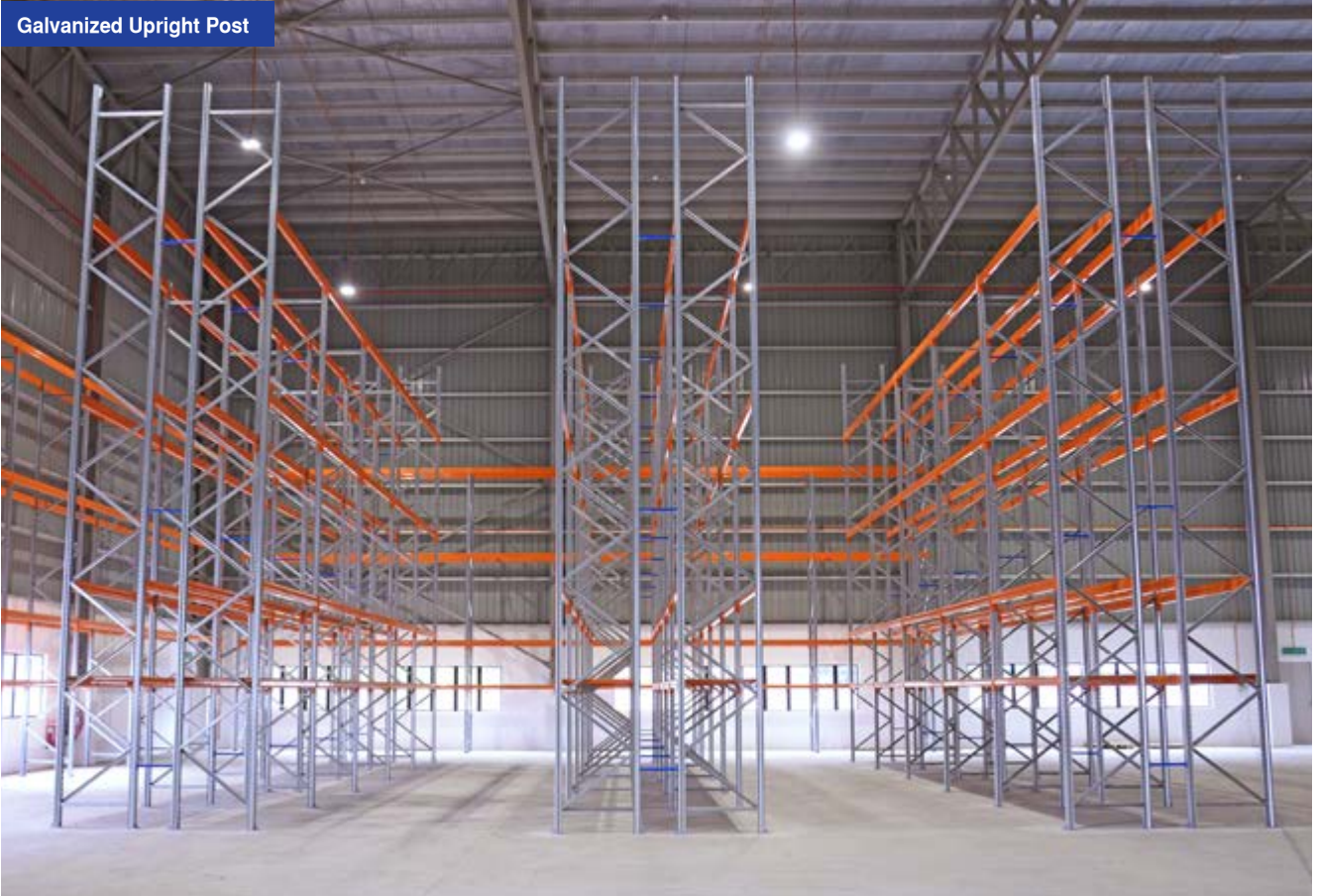
Dimension: Height x Depth x Length x Shelve Level x Bay (W/O Plywood)

Height (mm)	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500
Depth (mm)	4800	5100	5400	5700	6000	6300	6600	6900	7200	7500			
Length (mm) C/E	900	1200	1350	1500	1800	2100	2400	2700	3000	3300	3600		
Shelve Level	2	3	4	5	6	(Available customize)							
Decking Material	Bay (Without Plywood)												
Loading Capacity (kg)	1000 kg - 3000 kg UDL / level												
Colour	Beam ■ ■ (optional)							■ Frame Set					



Selective Pallet Racking System

Galvanized Upright Post



Galvanized Upright Post



Mesh Decking



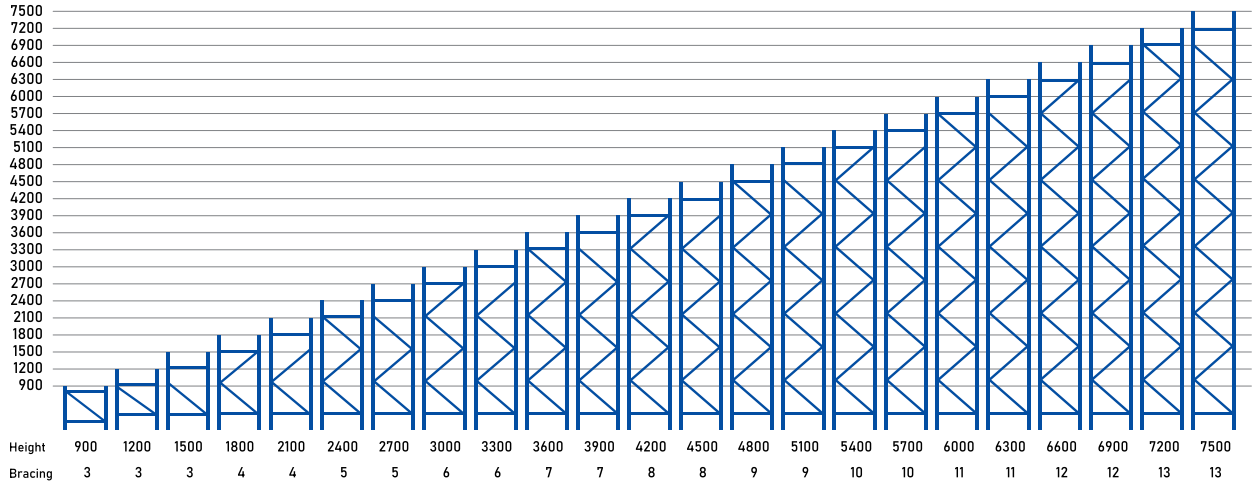
Matte Dark Gray Upright Post



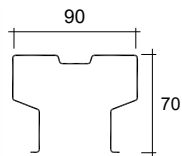
Selective Pallet Racking System



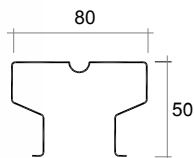
Heavy Duty Frame Set Height (mm)



Upright Post

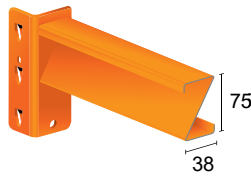


UP 90x70

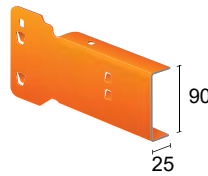


TP 80x50

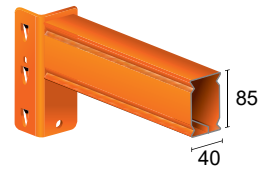
Box Beam Profile



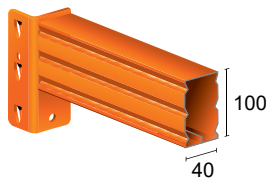
OUZB 38x75



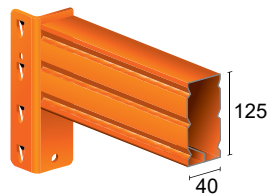
OUCB 25x90



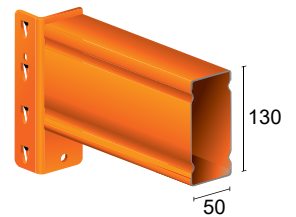
OUBB 40x85



OUBB 40x100



OUBB 40x125



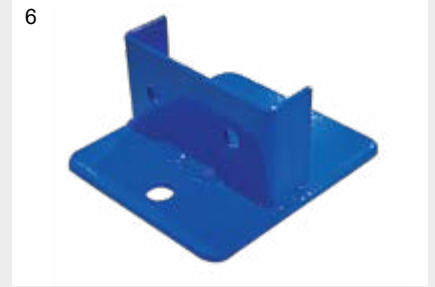
OUBB 50x130



TBP Base Plate



HBP Base Plate



CBP Base Plate



C-Channel Base Plate



Levelling Plate



PJ Anchor



Safety Pin



Mesh Decking



Heavy Duty Metal Shelf



HDF Board / Plywood / Cement Board



Placon Roller



Sport Rim Stopper



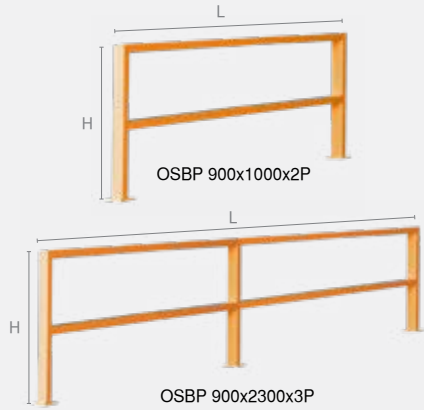
Drum Stopper



Heavy Duty Center Support



Pallet Stopper



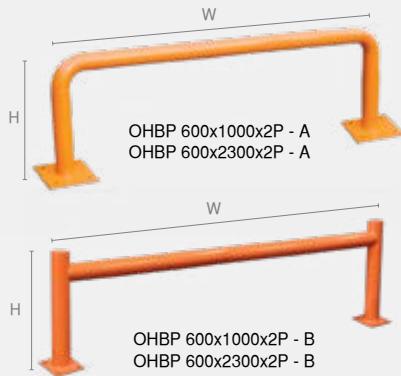
Standard Barrier Protector

Product code	OSBP 900x1000x2P	OSBP 900x2300x3P
Dimension H x L (mm)	900 x 1000	900 x 2300
SHS size (mm)	50 x 50	
No. of Pole	2	3



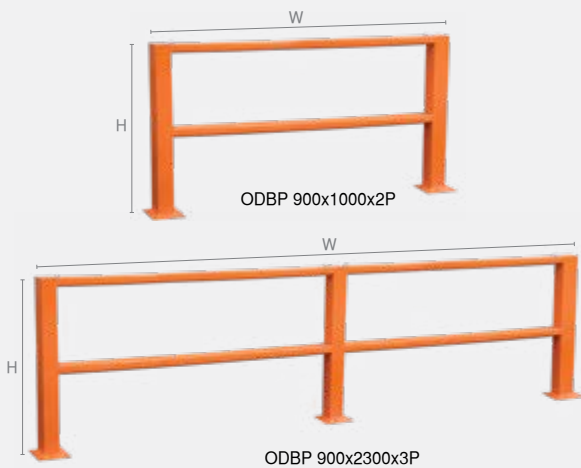
Heavy Duty Barrier Protector

Product code	OHBP 900x1000x2P		OHBP 900x2300x3P	
Type	A	B	A	B
Dimension H x L (mm)	900 x 1000		900 x 2300	
Pipe Diameter (mm)	Ø75			
No. of Pole	2		3	



Barrier Protector

Product code	OHBP 600x1000x2P		OHBP 600x2300x2P	
Type	A	B	A	B
Dimension H x L (mm)	600 x 1000		600 x 2300	
Pipe Diameter (mm)	Ø75			
No. of Pole	2			

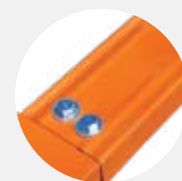


Detachable Barrier Protector

Product code	ODBP 900x1000x2P	ODBP 900x2300x3P
Dimension H x L (mm)	900 x 1000	900 x 2300
SHS size (mm)	100 x 100	
No. of Pole	2	3



Post OP 100100900
Size: 100 x 100 x 900



Lip Channel OLC 40100
Size: 40 x 100 x 800 / 1000





Specifically constructed and designed for tough loads between 1000kg ~ 3000kg UDL, heavy capacity warehouses can now look towards our range of **Heavy Duty Shelving System**. Our own innovation, the box beam increase loading capacity of the **Heavy Duty Shelving System**, the versatility of the box beam bracket enables easy installation and dismantling according to customer application.



Dimension: Height x Depth x Length x Shelve Level x Decking Material

Height (mm)	900	1200	1500	1800	2100	2400	2700	3000	3300	3600	3900	4200	4500
	4800	5100	5400	5700	6000	6300	6600	6900	7200	7500			
Depth (mm)	450	600	750	900	1000	1200	1500						
Length (mm) C/E	900	1200	1350	1500	1800	2100	2400	2700	3000	3300	3600		
Shelve Level	2	3	4	5	6	(available customize)							
Decking Material	12mm High Density Fiber Board / Plywood / Metal Shelve												
Loading Capacity (kg)	1000 kg - 3000 kg UDL / level												
Colour	Beam ■ ■ ■							Frame Set ■ ■					



Twin-bay Racking System



Twin-bay C/W Top Flooring



TTF Twin-bay Racking System was conceptualized as a cost saving system. With the application of our unique bracing system, the **Twin-bay Racking System** offers double the storage capacity and warehouse storage efficiency. The **Twin-bay Racking System** is made to withstand loads between 1000 kg ~ 3000 kg UDL.



Multi-tier Twin-bay C/W Top Flooring



Twin-bay Racking System





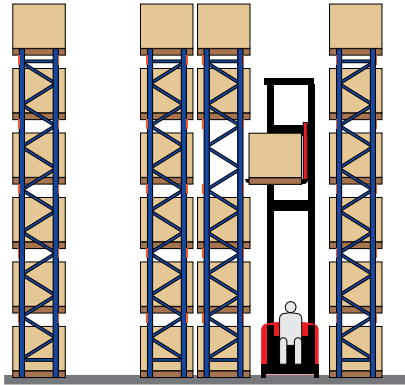
Narrow Aisle Racking System



TTF Narrow Aisle Racking System provides high density storage while still allow individual access to all pallets. It's serve by special designed handling equipment: combination order pickers and turret truck or stacker cranes. It's needed to manoeuvre in the narrow aisle between the racks and aisle are marginally wider than the special truck, thus it guided along the aisle and do not turn to retrieve or deposit a pallet. The mast or fork head rotates to left or right as required. These system come into their own where only a limited floor space but store a large volume of stock and pallet.



Combination Order Picker & Turret Truck



Due to high-emphasis on safety required throughout racking systems, TTF have developed the **Double Deep Racking System**. TTF **Double Deep Racking System** was designed to store 2 pallets deep or 4 pallets deep in a double entry rack to suit most warehousing conditions. With a floor utilization capacity of 60%, this system offers optional storage accessories for awkward and non-standard loads. It gives 50% immediate accessibility and an average stock rotation performance.

Scan the QR code for **Product Video** in our facebook page.

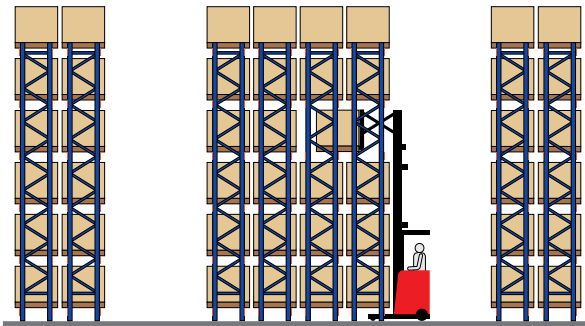


English ver.
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Chinese ver.
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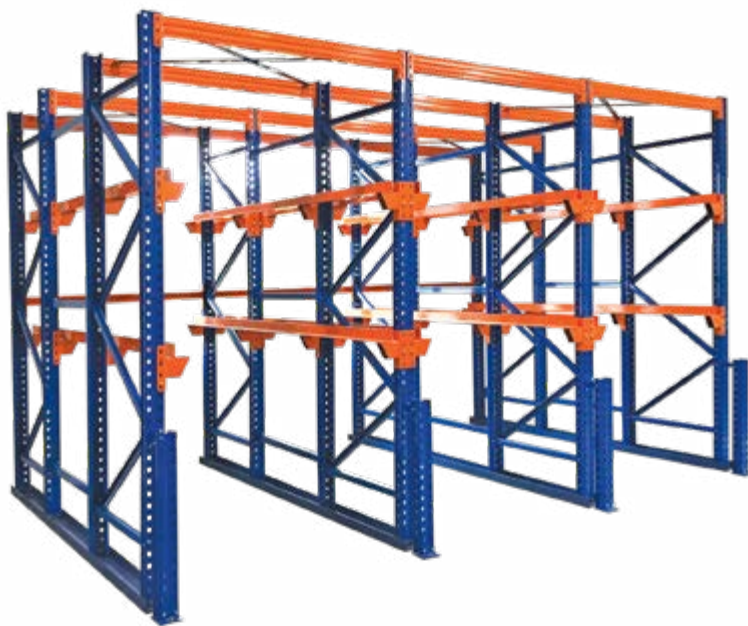




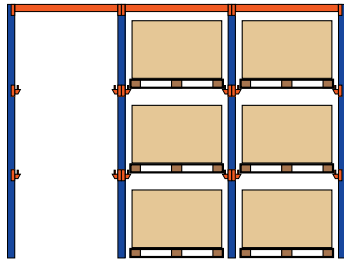
Galvanized Upright Post



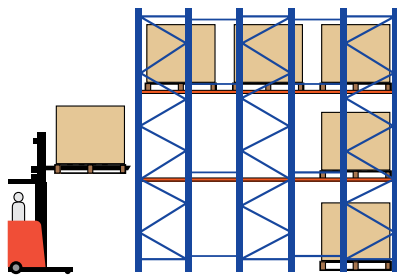
Drive-in Racking System



TTF Drive-in Racking System allows long term storage of same size goods. The design allows forklift trucks to be driven right into the centre of the block between any uprights on the front face for pallet retrieval. This is made possible because the design does not need cross beams that will block entry. The pallets are supported on the front to back edges by continuous rails cantilevered from the upright at each pallet level. Stock rotation is poor with a floor utilization capacity of 65%. Again, **TTF** versatility in fabricating rack systems according to customer required specifications make the **Drive-in Racking System** a formidable business solution. All safety aspects and product load specifications are formulated by 3D CAD software to suit customer's need.



FRONT VIEW



SIDE VIEW



Drive-in Racking C/W Top Flooring





TTF innovative **Heavy Duty Shelving C/W Mezzanine Floor** is a 2-in-1 solution in today's world where space is a premium. Perfect for commercial or industrial locations, the design optimizes vertical space and offers instant access to stock handling. The system is a rack-supported structure with versatile multi-tier application. The mezzanine floor system gives industry leaders an option to add an additional floor for staff upgrade and storage needs.



Multi-tier C/W Top Flooring



Mesh Fencing



Perforated Metal Floor Plain



Multi-tier C/W Top Flooring

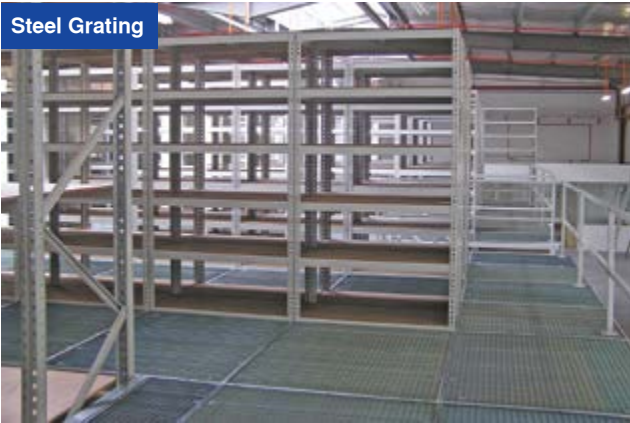


Multi-tier C/W Top Flooring



Heavy Duty Shelving C/W Mezzanine Floor

Steel Grating



Metal Floor Plain



Plywood / HDF Board



Cement Board



Perforated Metal Floor Plain



Steel Grating





Decking Material



HDF Board / Plywood



Cement Board



Metal Floor Plain



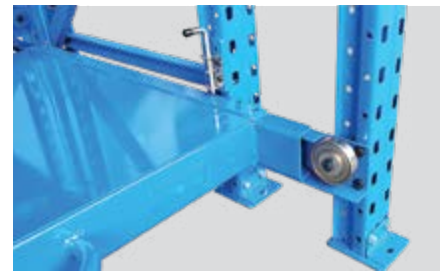
Perforated Metal Floor Plain



Steel Grating



Chequered Plate



TTF Mould Tool Rack are perfect for storing heavy goods such as modules, motor and tools. The mould tool racks have one-way pullout shelve along with sheet base panel for making the warehousing much simpler. Each rack loading capacity 800kg UDL / level.



Scan the QR code for **Product Video** in our facebook page.

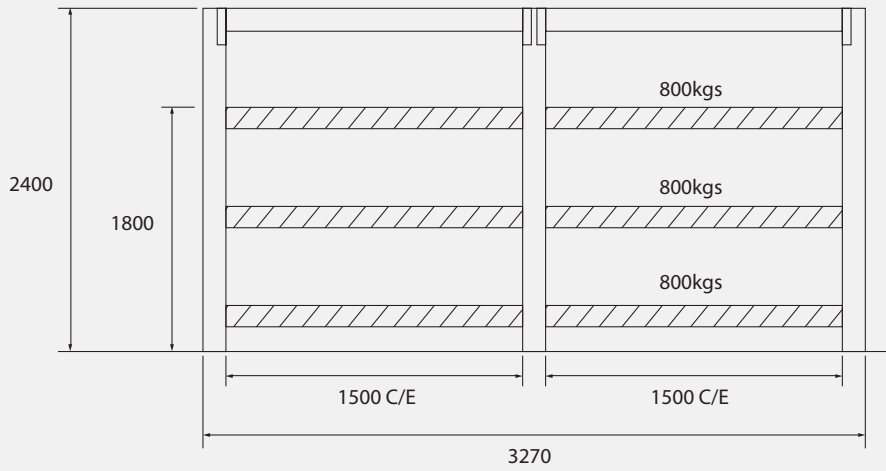
[Click here](#)

Dimension: Height x Depth x Length x Shelve Levels

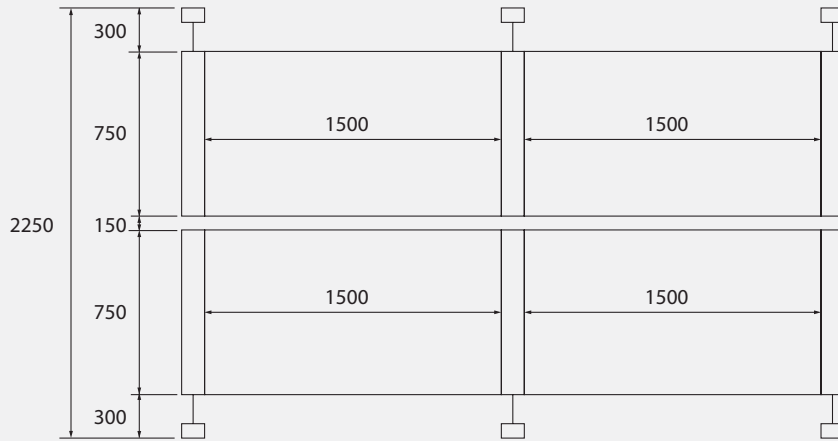
Height (mm)	800 / 2400
Depth (mm)	750 + 300 x 2 unit back to back
Length (mm) C/E	1500
Movable Shelf (mm)	770 x 1490 (3 Movable)
Shelve Level	4
Rack Outer Depth (mm)	2250
Rack Outer Length (mm)	3270
Loading Capacity (kg)	800 kg UDL / level
Colour	■ Frame Set ■ Beam

Size available in customized.

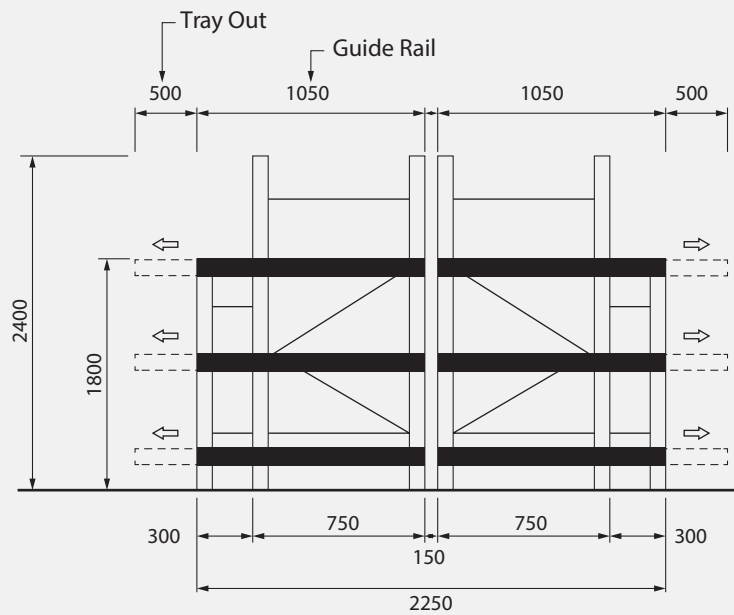
FRONT VIEW



TOP VIEW



SIDE VIEW





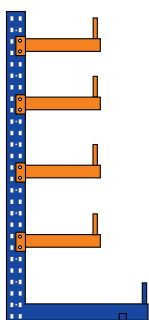
Dimension: Height x Width x Arm Length x Level

Height (mm)	1800	2100	2400	2700	3000	3300	3600
Depth (mm)	700	800	950	1000	1100	1200	
Length (mm)	600	750	900	1200			
Loading Capacity (kg)	100 kg - 500 kg UDL / level						
Colour	■ Bracing			■ Arm			

Remarks: medium duty specifications

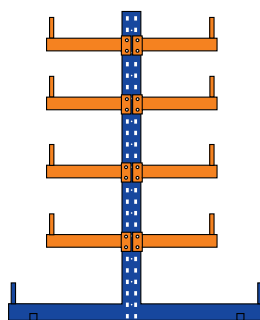
This system allows storage of long-length stock and is perfect for outdoor or indoor of goods facilities and work sites. **TTF Cantilever** accommodates the need for quick and easy height and width positioning of goods. A flexible solution for both double-sided and wall access applications, the system is an economical solution for storing long bars, wood, tubes, pipes and etc. Permanent stopper on storage arms ensure easy loading and safe goods storage. The cantilever arms can be placed at suitable levels for maximum utilization of vertical space.

SIDE VIEW



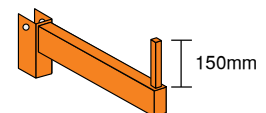
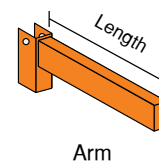
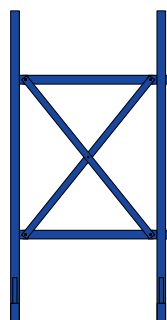
Single Sided

SIDE VIEW



Double Sided

FRONT VIEW



Arm with Stopper



Heavy Duty Cantilever C/W Top Flooring



Heavy Duty Cantilever Mezzanine



Medium Duty Single Sided Cantilever
(100kg - 500kg)



Cantilever C/W Metal Shelving
Plate with Divider



Universal Beam Heavy Duty Single Sided Cantilever
(1000kg above)



TTF Racking System Mezzanine Floor was designed with simplicity and efficiency in mind. The Racking System Mezzanine Floor is made-up of SHS column and box beam type primary beam for life time safety and peace of mind. The system is ideal for maximum space usage to increase company profitability. Easily installed and dismantled without the need for on-site welding.



Multi-tier Mezzanine C/W Top Flooring



Multi-tier Mezzanine C/W Top Flooring





TTF Truss System Mezzanine Floor was designed with simplicity and efficiency in mind. The **Truss System Mezzanine Floor** is made-up of SHS column and Truss type support beam for life time safety and peace of mind. The system is ideal for maximum space usage to increase company profitability. Easily installed and dismantled without the need for on-site welding.

Multi-tier Truss System

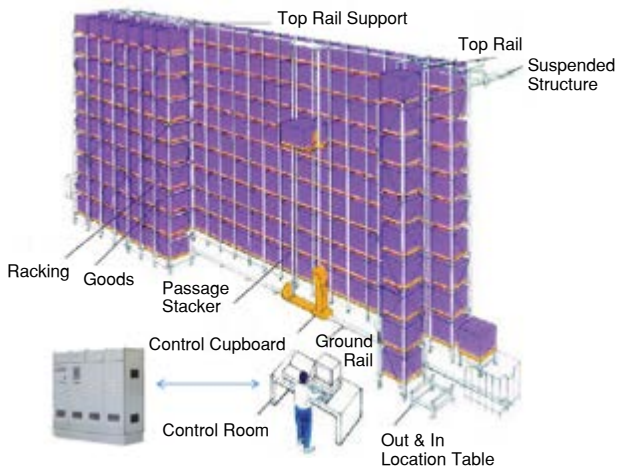


Decking material: Perforated Metal Floor Plain

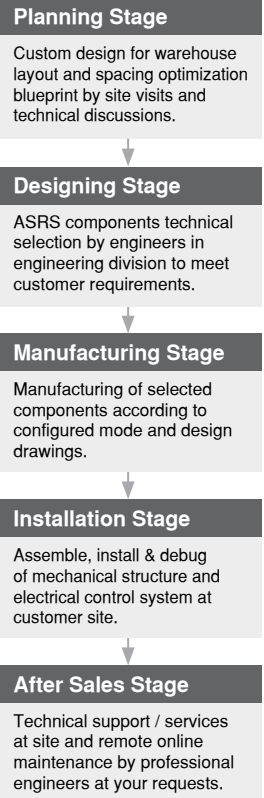
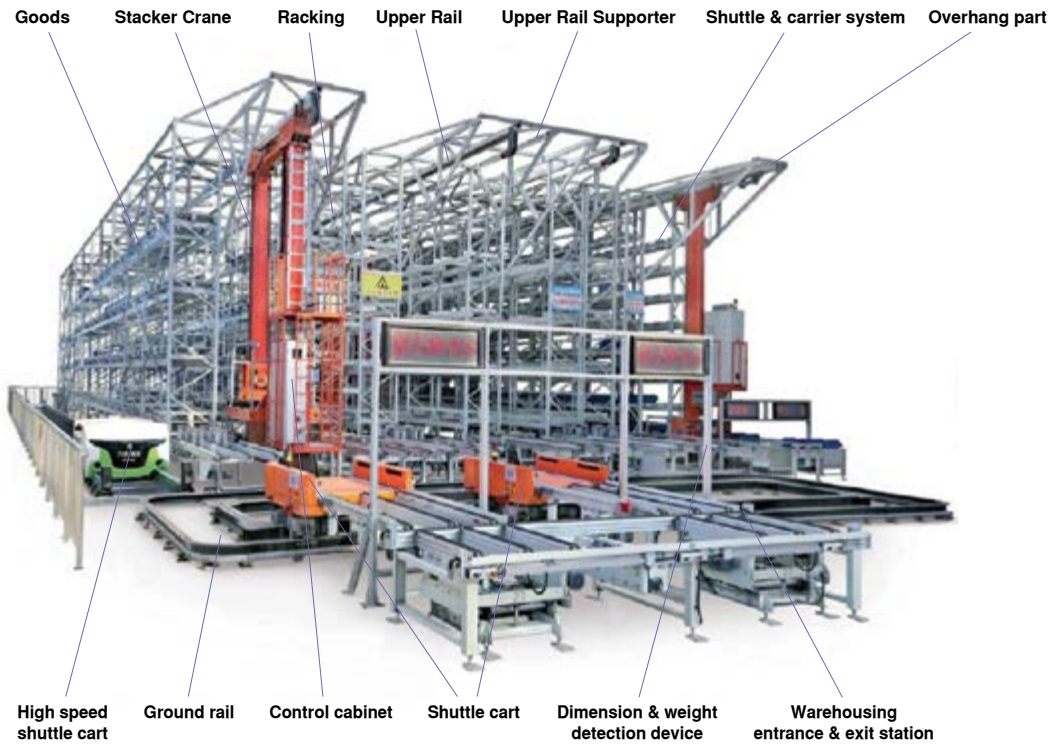




TTF AS/RS System consists of assembly racking and welding racking. Complimented by passage stackers, conveyor system and computer control system, it guarantees the fullest space utilization, handling mechanization and storage management modernization.



Custom Design System



Design Highlights



Racking System

- Optimized sectional design
- High quality steel material
- Pitch adjustable 75mm upright
- Strengthen by bolts & nuts
- High intensity & good stability
- Epoxy powder coated surface



Stacker System

- Operation control mode - Computer monitoring & controlling system
- Operator schema - Online auto / Manual / Maintenance mode
- Auto address mode - Laser / Rolling / Barcode addressing / Communication mode - Infrared / Wireless



Stacker Crane

- Single / Double mast structure
- Stable & reliable operation
- Vector frequency driver
- Encoder position controlling
- Real time tracing of pallets
- Touch screen easy operation



Conveyor System

- Roller conveyor
- Chain conveyor
- Lift & transfer conveyor
- Palletizing conveyor
- Depalletizing conveyor
- AVG lane conveyor
- Shuttle lane conveyor

ASRS Concept Structure

- Beams/ Bracket type racking with high steel quality for whole assembly structure.
- Steel pallet to load goods with strong loading capacity and better rigidity.
- Main components of racking being manufactured in high precision production.
- Installation done by certified engineers and technicians at site.

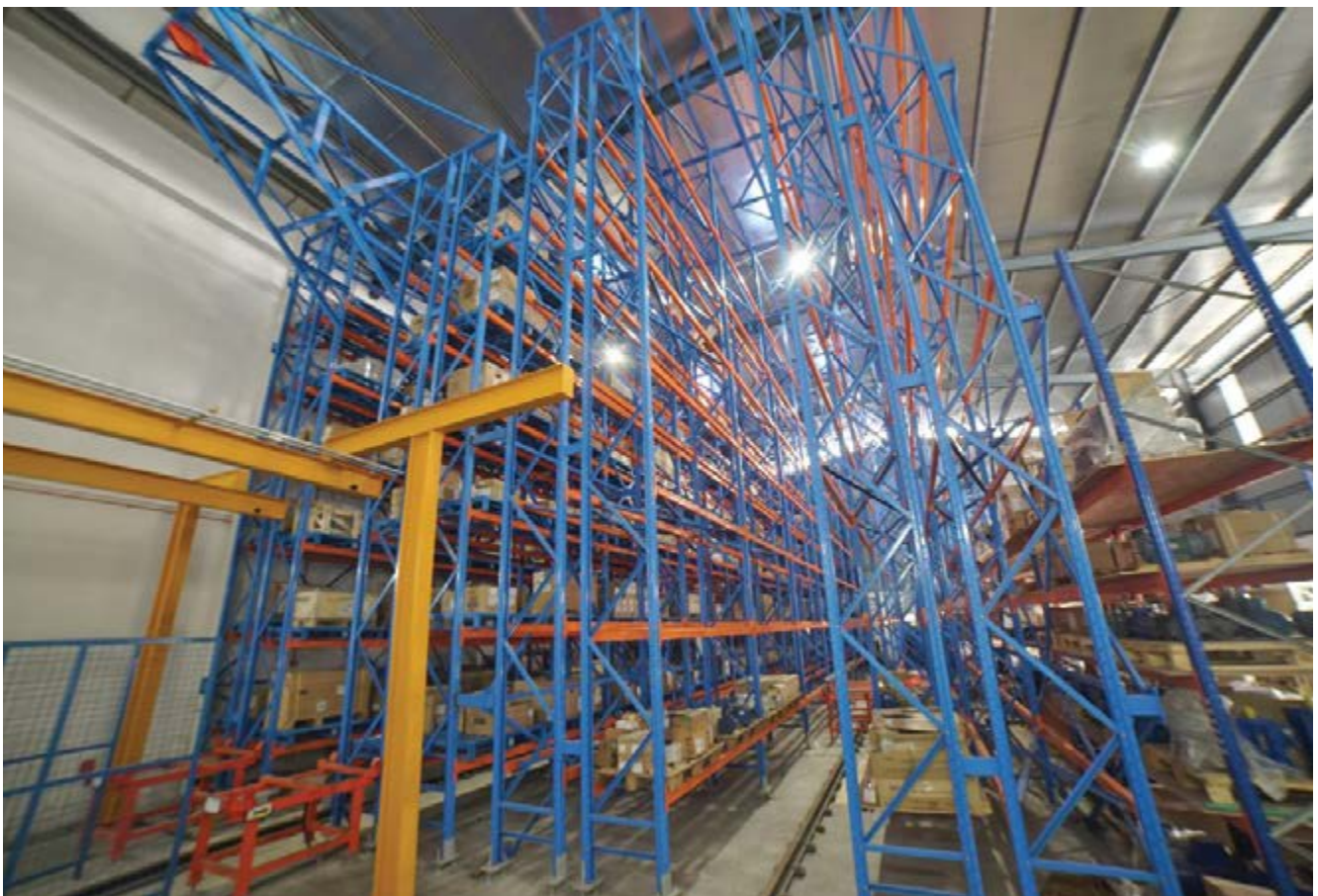
ASRS Benefit Highlights

- ✓ High storage density degree vs space.
- ✓ Increased variety of goods stored.
- ✓ Micro warehouse cells stock check.
- ✓ Maximum store space utilization.
- ✓ High rise warehouse structure.
- ✓ Minimum land space utilization.
- ✓ High automatic operational speed.
- ✓ Minimum manual stock handling tasks.
- ✓ Minimum stock damages and losses.
- ✓ Application for Industry 4.0 implementation.
- ✓ Interface syncing with mainframe ERP / SAP.
- ✓ Auto database logs and ISO reporting formats.
- ✓ Real time inventory management.
- ✓ Increased inventory stock accuracy.
- ✓ Increased warehouse overall efficiency.
- ✓ Short ROI period of approximately 2 to 3 years.
- ✓ High rate of increased operation efficiency.
- ✓ Skilled workers development via technology.



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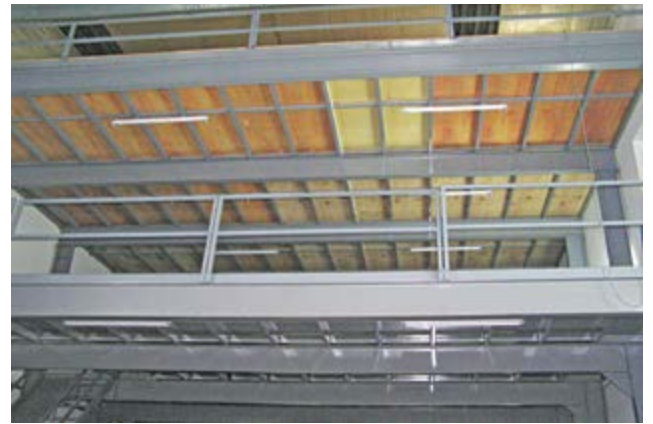
Steel Platform



Multi-tier Steel Platform System



With an extremely popular trend of utilizing critical space by architects and builders, **TTF Steel Platform** provides the missing link to space-saving puzzles. Extremely strong and meeting all building safety requirements, the Steel Platform is a popular choice for many applications in permanent warehousing, medium scale factories and even amusement park application. Our **Steel Platform** design is built with a solid universal beam that is longer, requiring less column supports. Top flooring can be made of plywood or mild steel plate.



Multi-tier Steel Platform System

