



SHIGEMITSU
MATERIAL HANDLING SOLUTION

PREMIUM RACKING SYSTEM

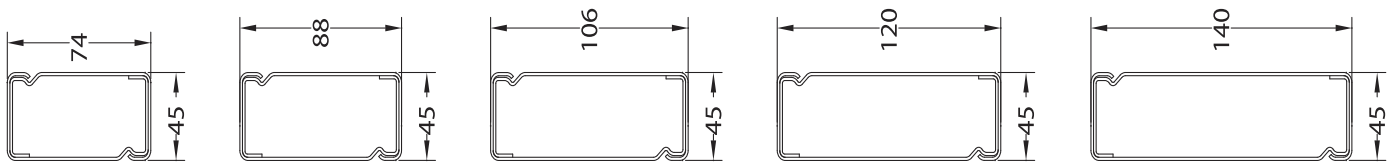


SPR

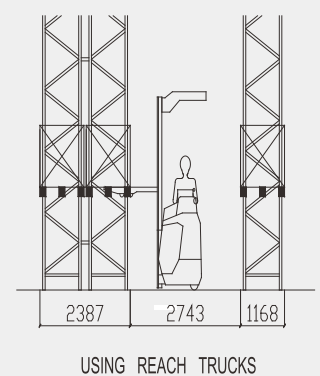
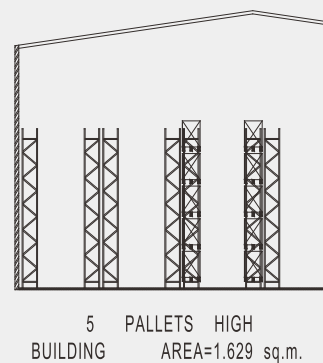
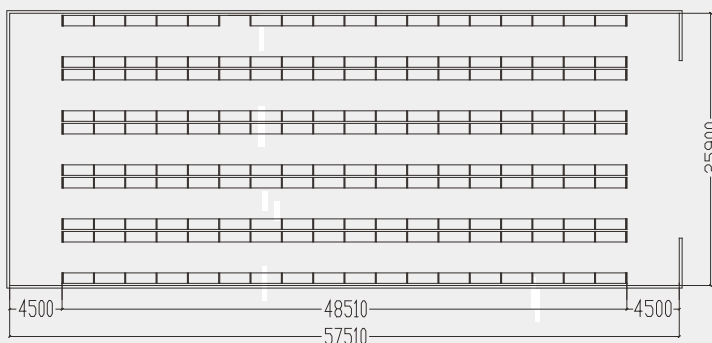
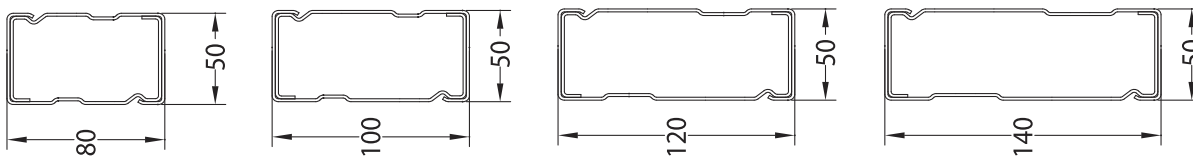
Standard Pallet Racking System

The standard pallet racking system is the simplest and most effective racking system. It is mainly composed of columns and beams. All pallets can be first-in, first-out, easy to install and easy to adjust.

45w Beam Section Series



50w Beam Section Series



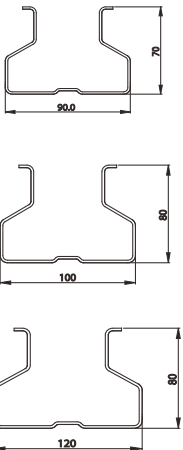


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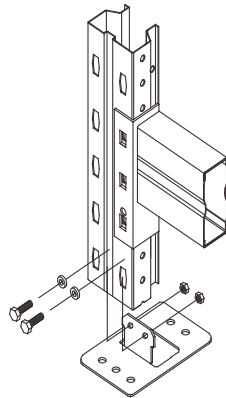
Double Deep Racking Systems

Pallet racking is constructed to store two pallets deep, or four pallets deep in a double entry rack. The system requires the use of a special reach truck with either dual pantograph or sliding fork attachments

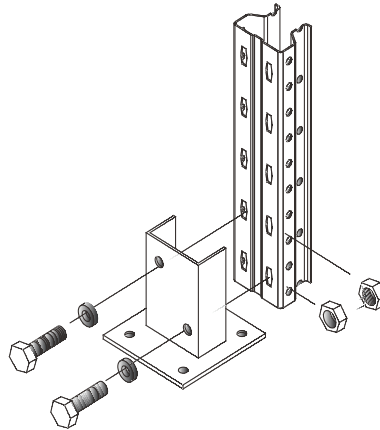
Column Section



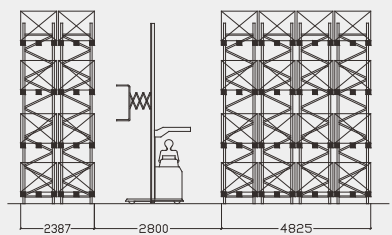
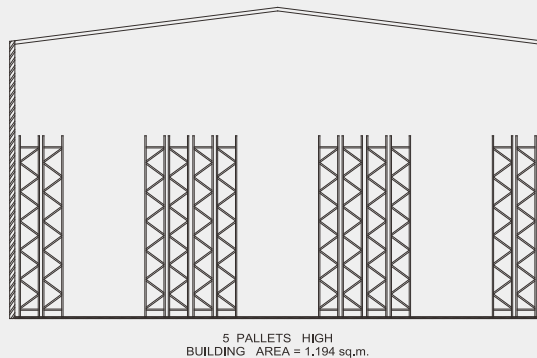
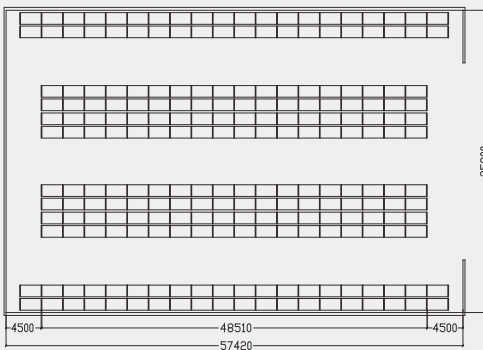
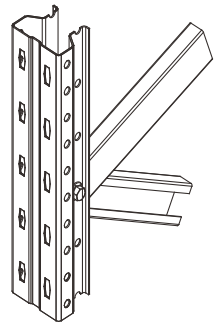
Standard Base assembly



Heavy Base assembly



Cross Bracing assembly





VNA

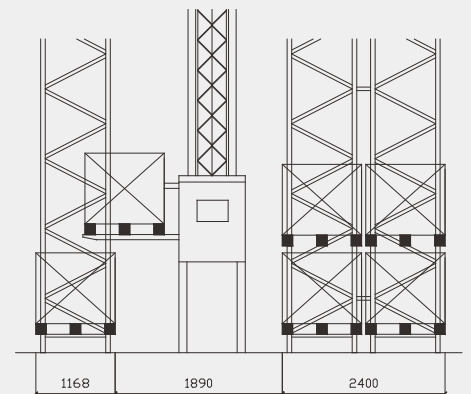
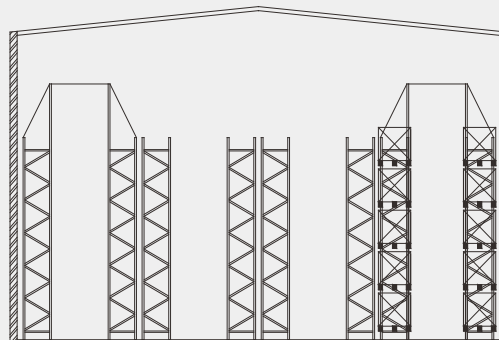
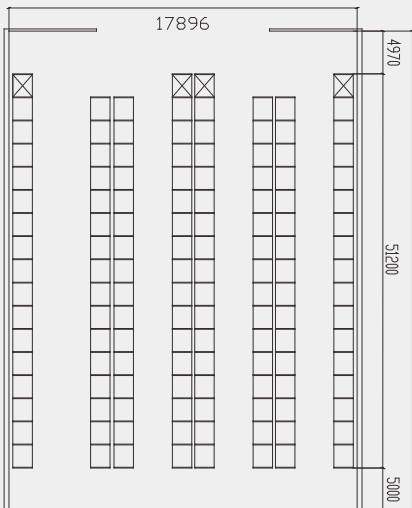
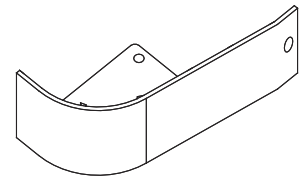
Narrow Aisle Rack Systems

is one kind of special pallet rack, it makes optimum use of floor area and roof height by providing high density storage which still allows individual access to all pallets. The system must be served by specially designed forklift machines with the mast or fork head rotating to left or right as required. Operating aisle is about 1.7m, Upright can be made max 14.5m. Floor rail must be installed to be with the three-way forklift operation.

Supporting three-way forklift



Supporting ground guide



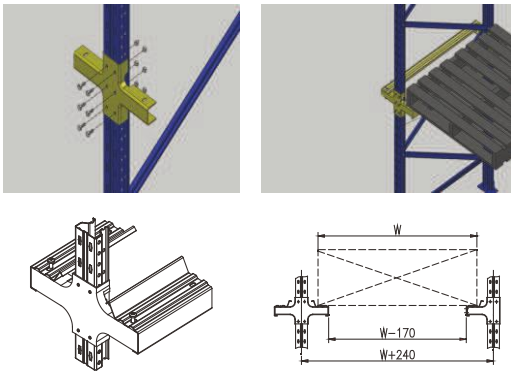


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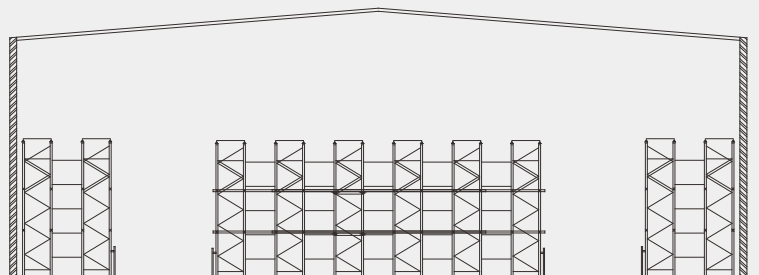
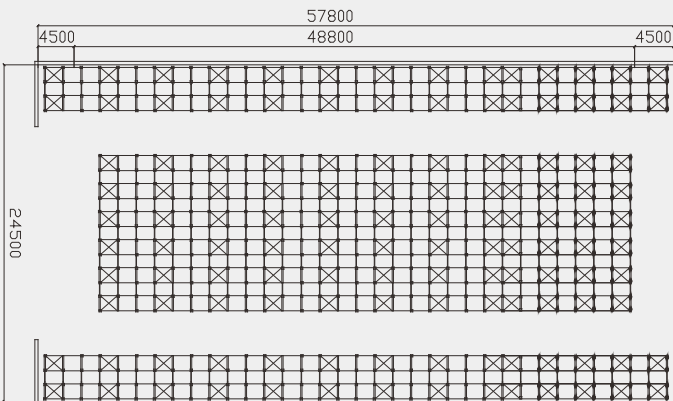
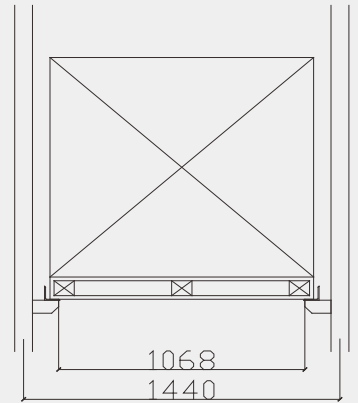
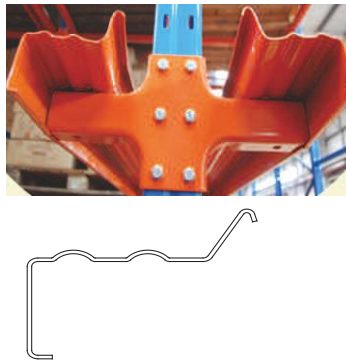
Drive In Racking Systems

Consists of a continuous block of frames, undivided by aisles. Trucks can drive right into the centre of the block between any uprights on the front face to pick up pallets. This design does not require cross beams which would block entry. Instead, The pallets are put on the continuous rails which are supported by cor-bels on each level. Top and back link bars are configured.

Detail Installation



Guide Beam Section



4 PALLETS HIGH
BUILDING AREA=1416 sq.m.



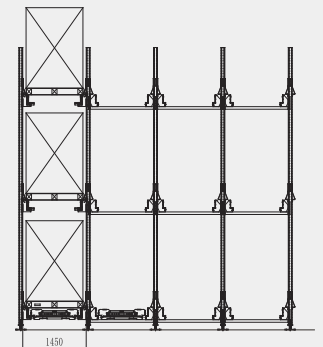
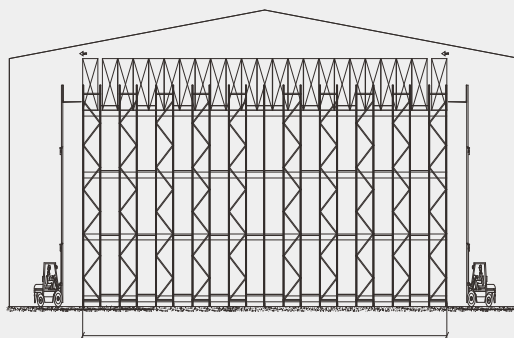
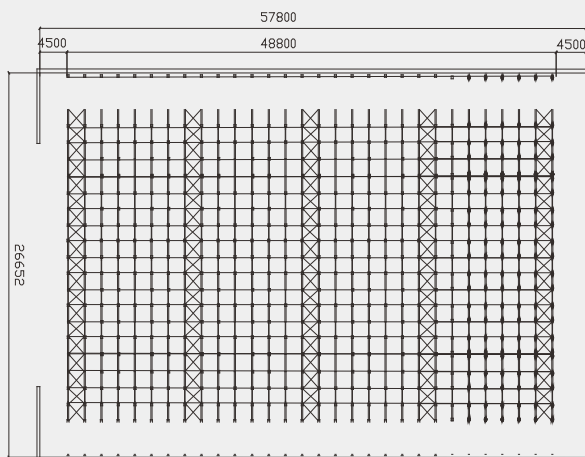
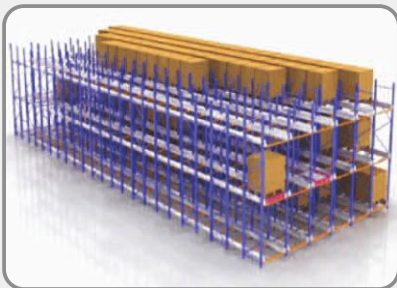
SRS

Shuttle Racking Systems

Radio shuttle racking system is consisted of shuttle racks and shuttle vehicles, which is typical highdensity storage, with space utilization up to 90%. Shuttle vehicles and forklifts can operate at the same time, which will improve the operational efficiency

Introductions of srs is made of common drive-in racks with shuttletrac, shuttle vnhicles come back and forth on tracks in the roadway to stock and pick up goods ,as well as to make an inventory.This flexible designning can be 7 to 40 depth. The storage mode can be "first in, first out" or "first in, last out". For easy managing, ach roadway only stock cargos with the same item. on this system is suitable or the goods of large quantity but few items.

Shuttle Racking System Parts of SRS





PBR

Push Back Racking Systems

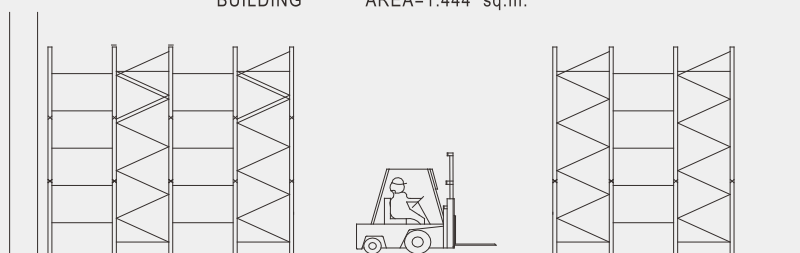
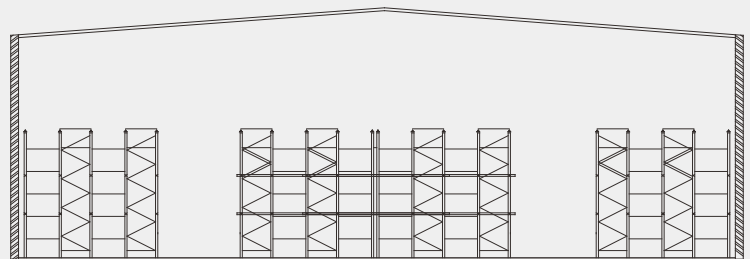
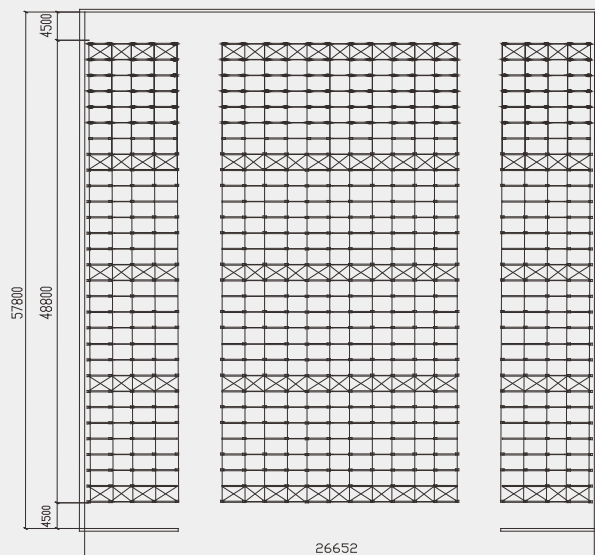
Is a high density pallet storage system, with each pallet load being pushed into the structure by succeeding pallets, so the first pallet in, becomes the last pallet out. This system is best for applications with same item

Introduction of PBR

Push back rack, is a high density storage rack, with many vehicles phased between front beam and back beam. Each pallet loaded will be pushed into the structure by succeeding pallets.

Push back racking is one typical structure with wheeled carriers.

- The operation method is first-in-last-out; pallets are accessed from one side only.
- All the operation for stocking and picking up is made at the lower end only, forklift does not need drive in to the stocking aisle, so it has high density and quick operation.



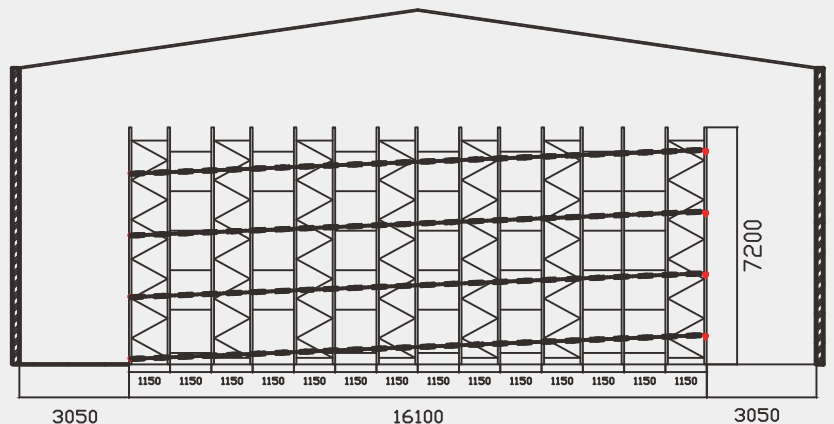
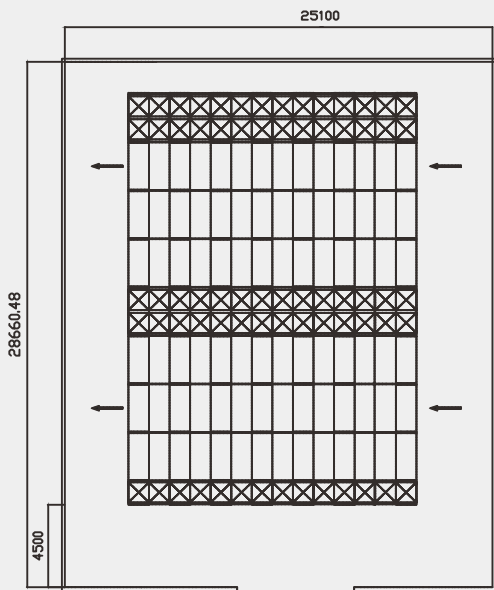
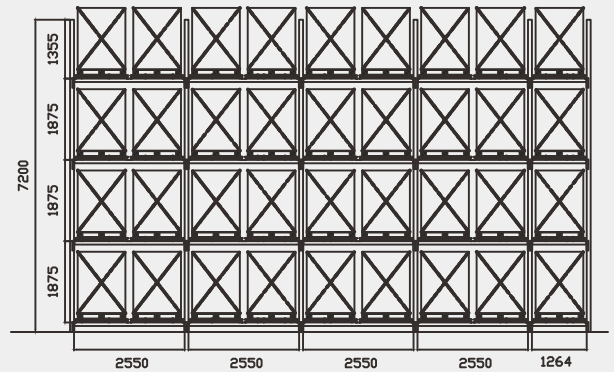


GPR

Gravity Racking Systems

Gravity pallet racking consist of uprights, beams, rollers and damping rollers. This deign needs inclination about 1.6 to 2.0 degree. Pallets are loaded at the upper end of the slop and travel through the block on glidewheels by gravity. So it is called gravity pallet racking. When pallets are removed,damping rollers will be settled to control the slip speed and separator will be put in front of the lower end. It follows the principle of "first in first out", so when designing, forklift aisles of two ends will be needed. the remaining pallet in the lane move forward, bringing the next in line to the picking face.

Gravity Rack Detail



4 PALLETS HIGH
BUILDING AREA=600 sq.m.

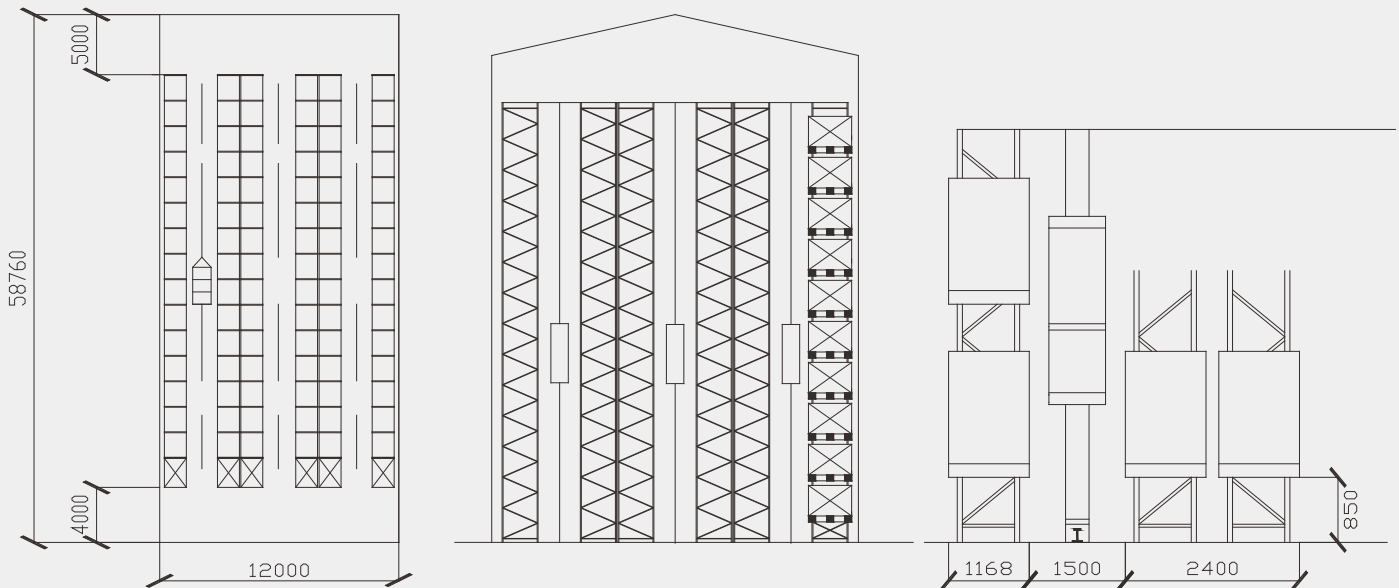
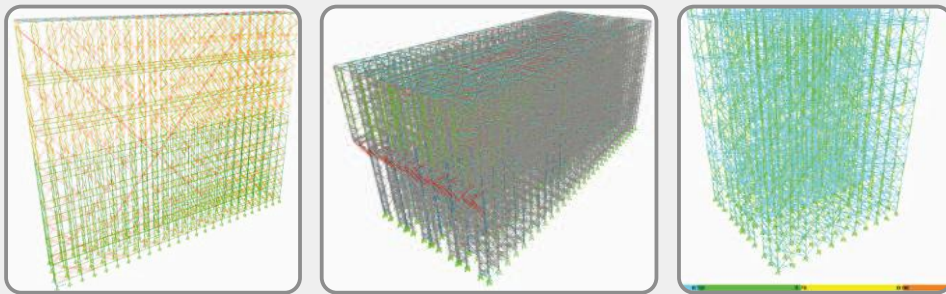


AS/RS

AS/RS Pallet Racking Systems

is one kind of racking with several levels even dozens of levels which needs automatic logistics handling equipments to stock in and out. This system is consisted of high level rack, logistics handling equipment, controlling & managing equipment and construction facility. The advantage is following as high level stocking can save space and improve spacing utilization, Automatic stocking and picking, with quick operation, so it is easy to be taken into the enterprise's logistics system. Computer's controlling makes it easy to facilitate the inventory.

Design Process Using Computer Simulation





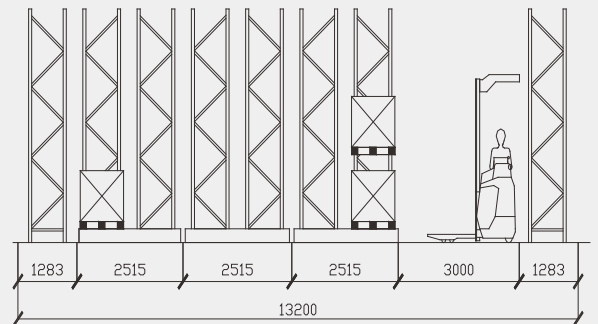
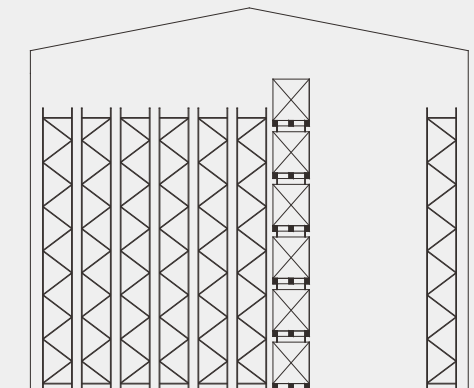
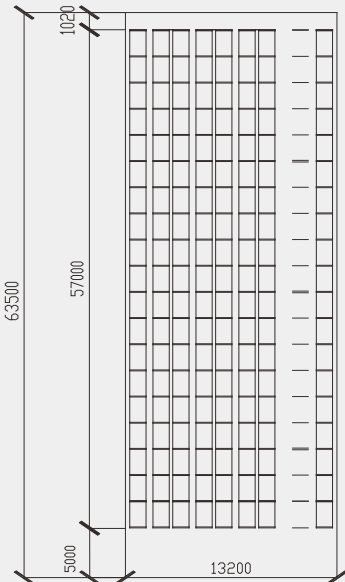
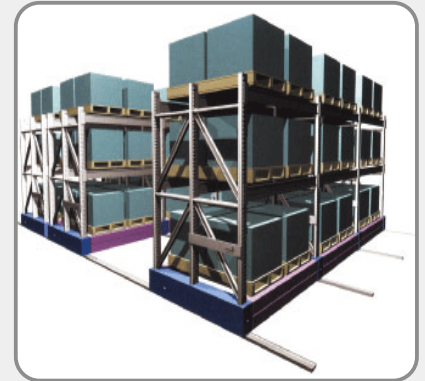
PMR

Power Mobile Racking Systems

Power mobile racking are individually power-driven and run on precision-laid steel rails. With this system, one aisle can serve six, eight, ten or more racks, the racks being moved electrically to open up an aisle where required. Control is by push-button. The electric motors are geared to the loadings of racks, plus a carefully calculated safety margin. The racks move smoothly without jerking or snatching. It takes only 30 seconds for a gangway to open.

Advantage :

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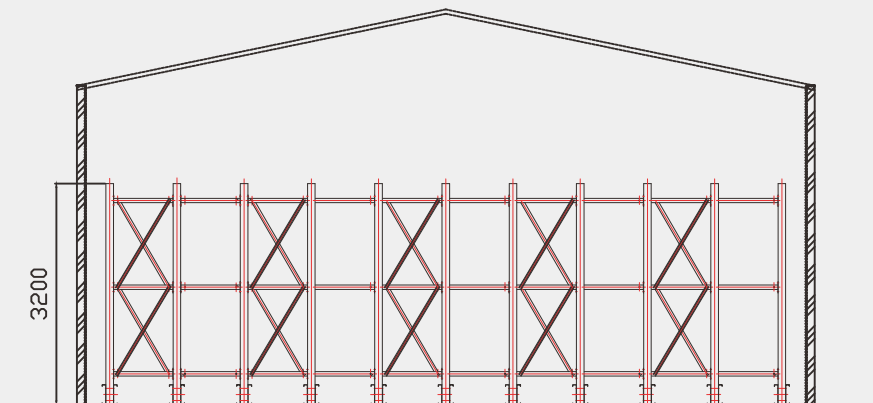
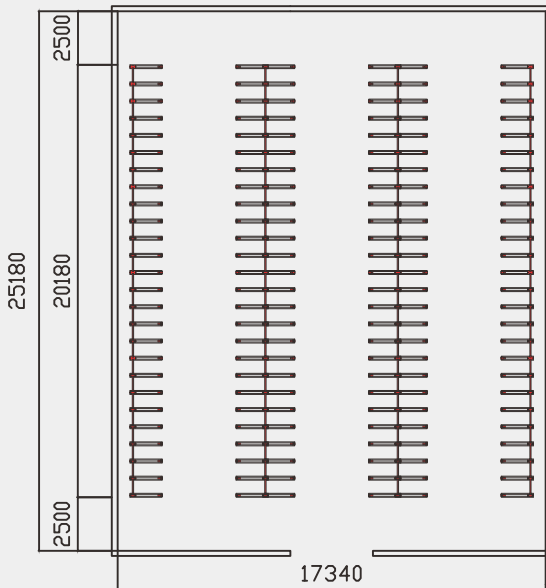
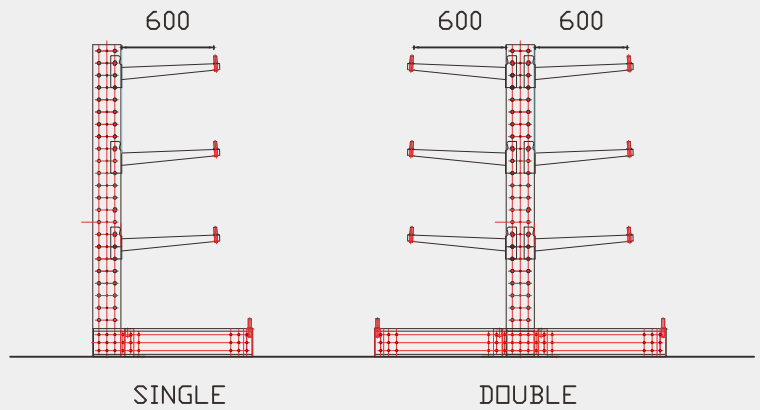


CRS

Cantilever Racking Systems

Cantilever racking is a type of rack that is used for storage of irregular or long round items. It can be used single or double sided, With stable structure, large load capacity and high space utilization, Whose upright and base plate are mainly made of H type steel or cold rolling steel, and arms for Square tube, H type steel or cold rolling steel. Arms and uprights are connected with Plug in or by bolt. Upright and base plate are connected by bolts.

Detail Design

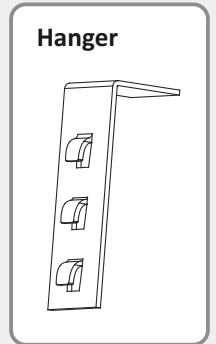
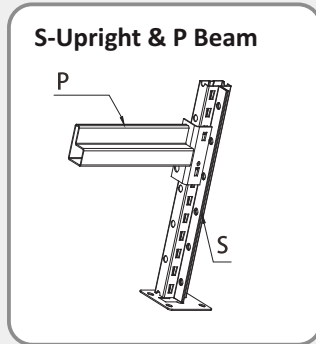
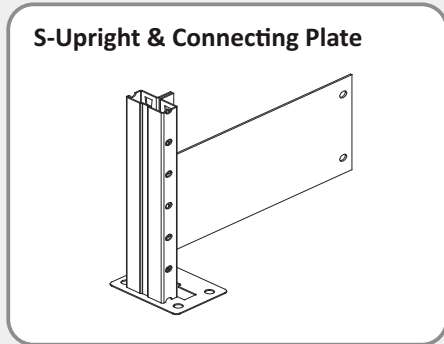
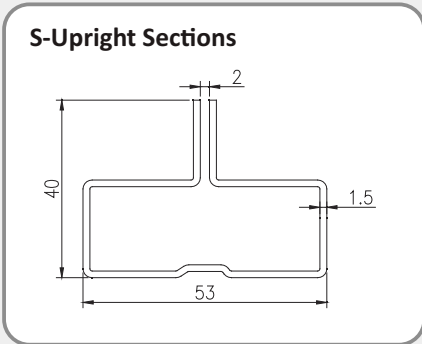




SBS

S Upright Shelving Systems

Supright structure, steel panel can be assembled freely, beam levels are adjustable by 25mm, less invested, widely used



The Loading Capacity/ Layer of Common Beams

	CE	1000	1200	1500	1800	2000	2300	2500
P50*30*1.5	(KG)	800	500	300				
P60*40*1.5		1400	1000	700	400	200		
P80*50*1.5		2000	1800	1500	1200	900	300	
P110*50*1.5		2300	2100	1800	1400	1000	700	300

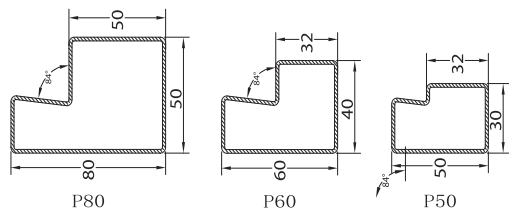


LSS

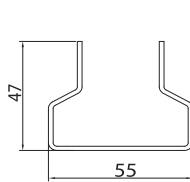
Long Span Shelving Systems

Medium Cut-in composite structure is standard cut-in units, whose installation and disassembly is simple and quick, with ultra high strength steel panel by punching and rolling, panel width can be adjustable freely. There is groove in the front of panel for cut-in tags, space for each level can be adjustable by 50mm pitch freely.

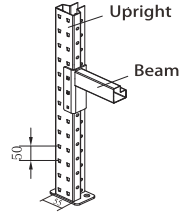
P Beam



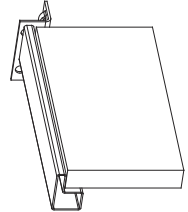
55 Upright



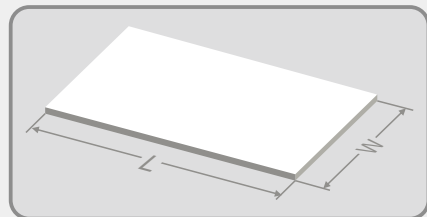
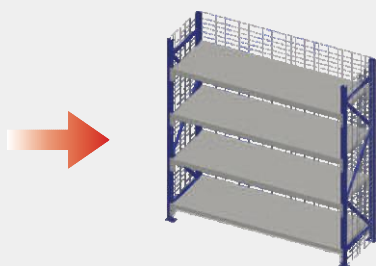
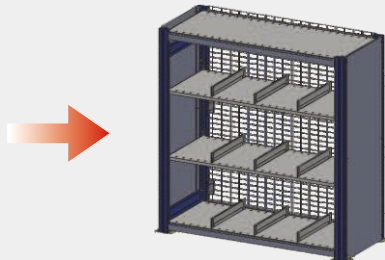
55 Upright Parts



P Beam & Laminates



Two Modes of Combination





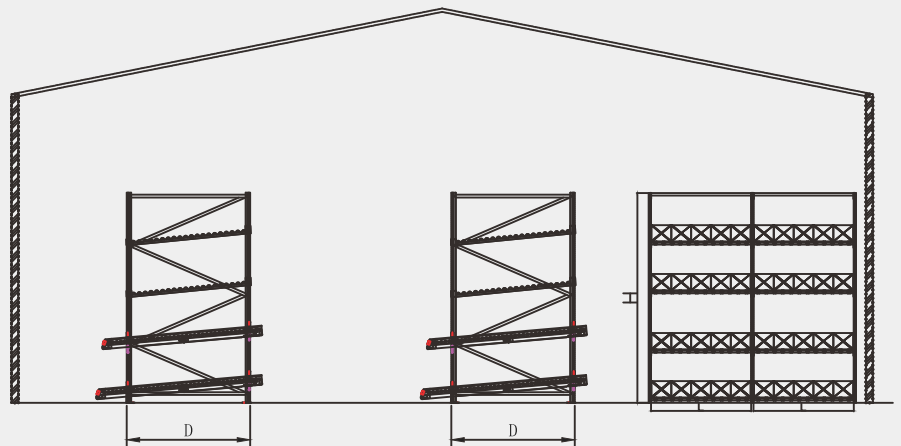
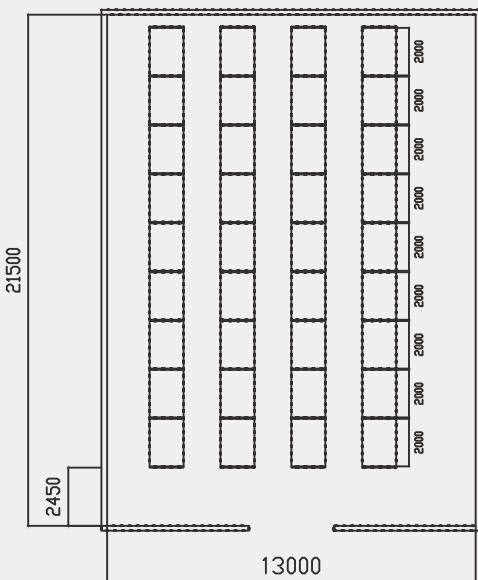
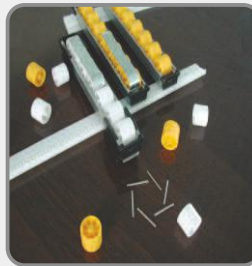
CFR

Carton Flow Racking Systems

Flow racking system, also called live storage, is used for the storage of work apparatus in production line. Because the material box slide down upon the own gravity in turn, it can save cargo handling and manpower. High density storage and lower cost, it is the best choice for modern storage.

Carton Flow Racking Features

- **First In First Out**
Products and stored are "First In First Out" (FIFO) principle
- **High space utilization**
High storage density thus provide higher floor area utilization
- **Easy Picking & Replenishment**
Picking and replenishment can be carried out simultaneously



CFR
BUILDING AREA=280 sq.m.



Mobile Shelving Systems

Mobile shelving is consist of fixed racks with mobile chassis installed at the bottom. Each rack has its own transmission equipment. This system only needs one aisle, so it is with the highest space utilization. It is suitable for the storage of museum, Chancery, Library, Hospital and Bank. With good leakproofness and appearance and safety.



Mobile shelving has all kinds of types, such as archives shelving, library shelving, accountant shelving and clinical history shelving. Mainly used for the storage of museum, chancery, library, hospital and bank.

Advantages:

- Save Space
- Large storage content
- Good confidentiality
- Beautiful appearance
- High Safety



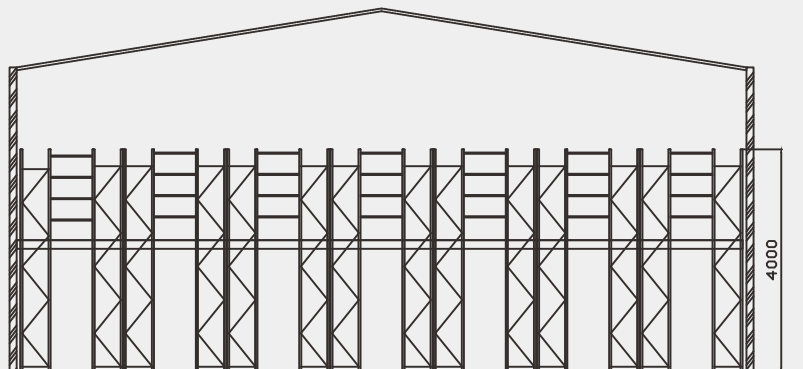
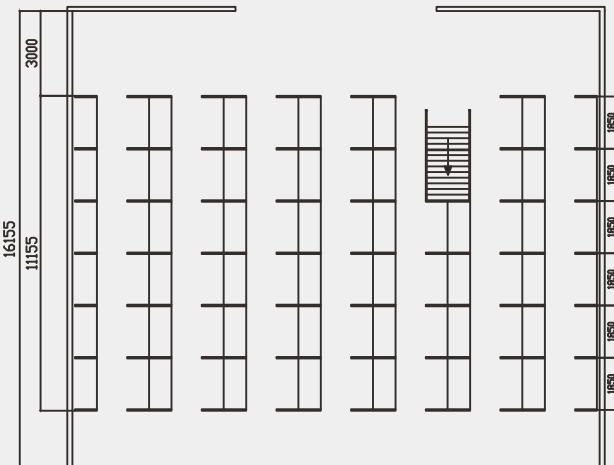
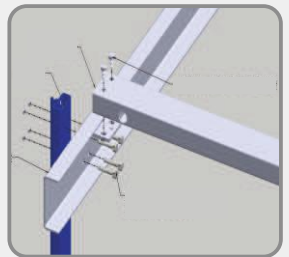
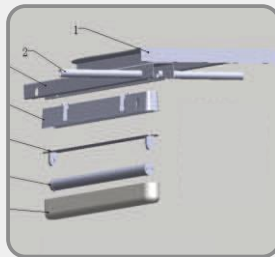
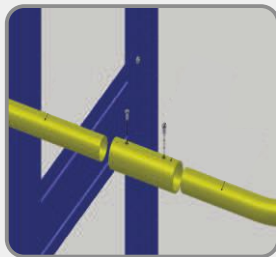
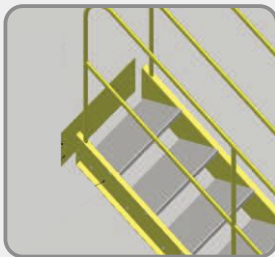
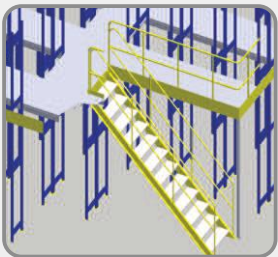
MRS

Mezzanine Racking Systems

Both multi-tire & Free standing mezzanine allow optimal space utilization and are practical for both storage & work in application. Give you additional storage levels which are the same size as the ground floor installation. Can be quickly and easily erected and dismantle compared with concrete floor construction

Mezzanine racking system, using medium duty shelving and heavy duty racks as support configured floor board (Choice of rack and shelving depends on load capacity of each unit). Floor board is commonly made of cold-rolled steel board pattern plate, grid plate.

Attic shelving system, usually using medium-sized shelf-type shelves or heavy-duty shelf-type shelves as the main support plus floor panels (depending on the total load weight of the shelf unit to determine which shelf to choose), the floor panels are usually selected from cold-rolled steel slabs, patterned steel slabs Or steel grille slabs.



MEZZANINE
BUILDING AREA =258 sq.m.



Steel Garret Shelving System

Steel garret shelving is composed of rack column or section as a column support shelving system, generally by the column, beam, beams, floors, staircase, parapets and horizontal access to all pallets. The system must be served by specially designed forklift machines with rod and other components. The utility model has the advantages of increasing the utilization rate of warehouse 100%

Floor Type



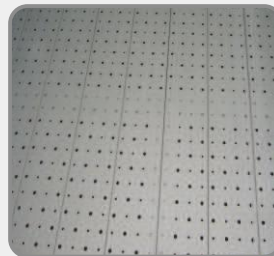
Checkered Plate



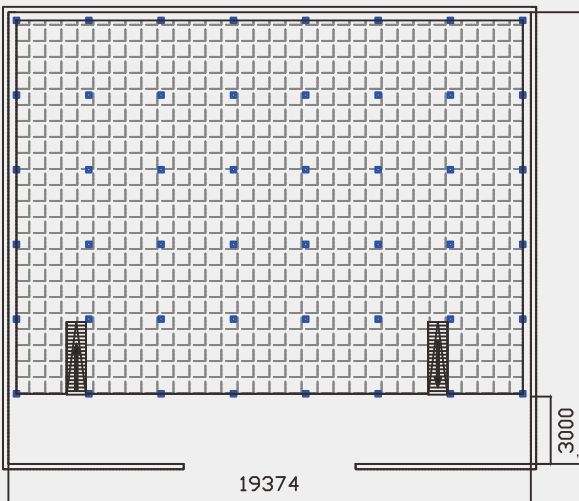
Hollow Steel Plate



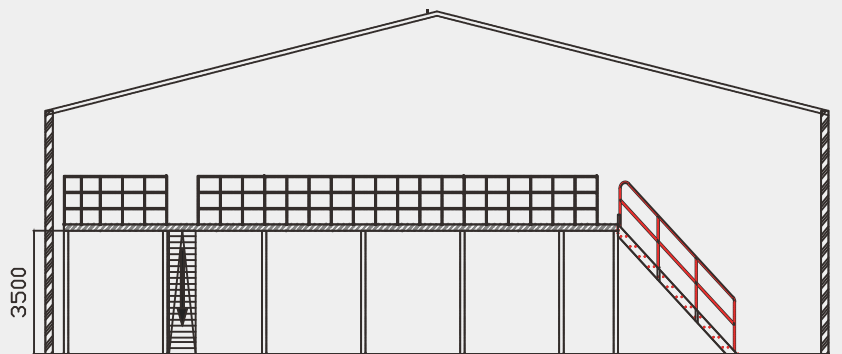
Circular Hollow Plate

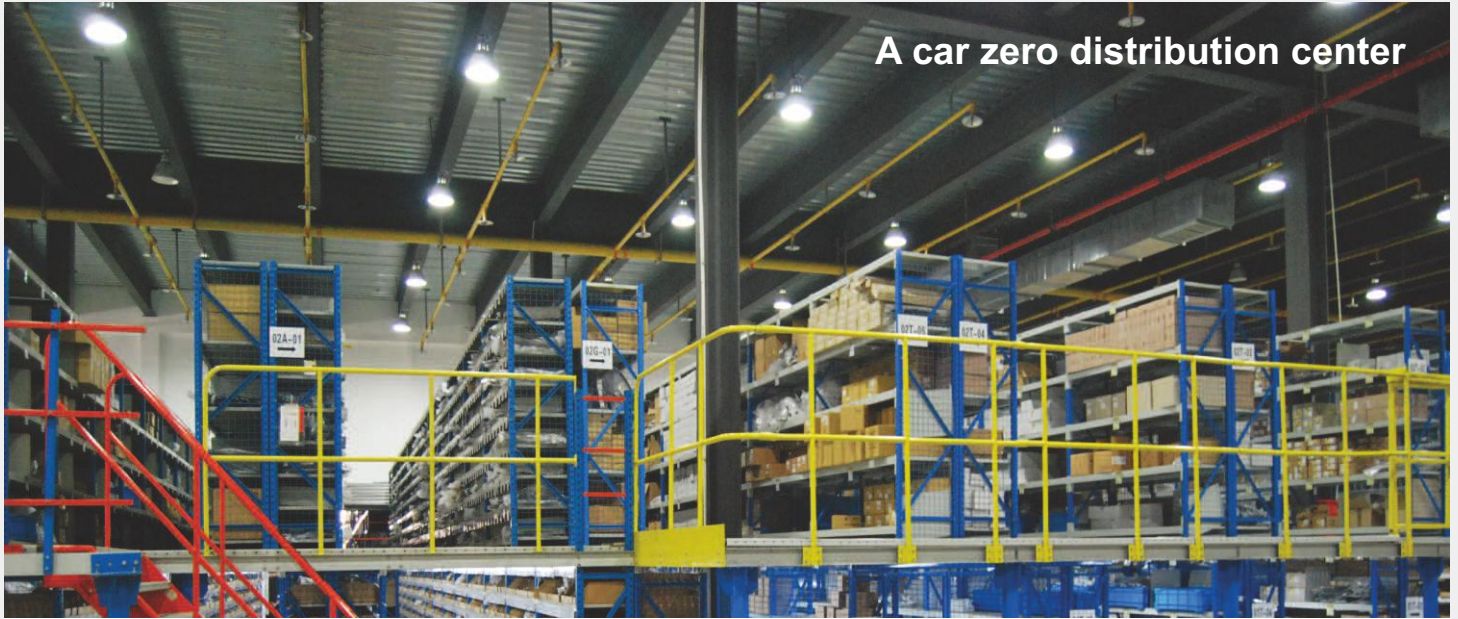


Grid Plate



STEEL PLATFORM
BUILDING AREA = 320 sq.m





A car zero distribution center

APS

Auto Parts Shelving Systems

Auto parts racking system is usually mezzanine racking, specially for complex auto parts with unequal size, Unique design and heterogeneous function can supply perfect storage mode, it is the best choice for distribution center of auto parts and store of "4S"

Turn your storage handling and distribution into profit center

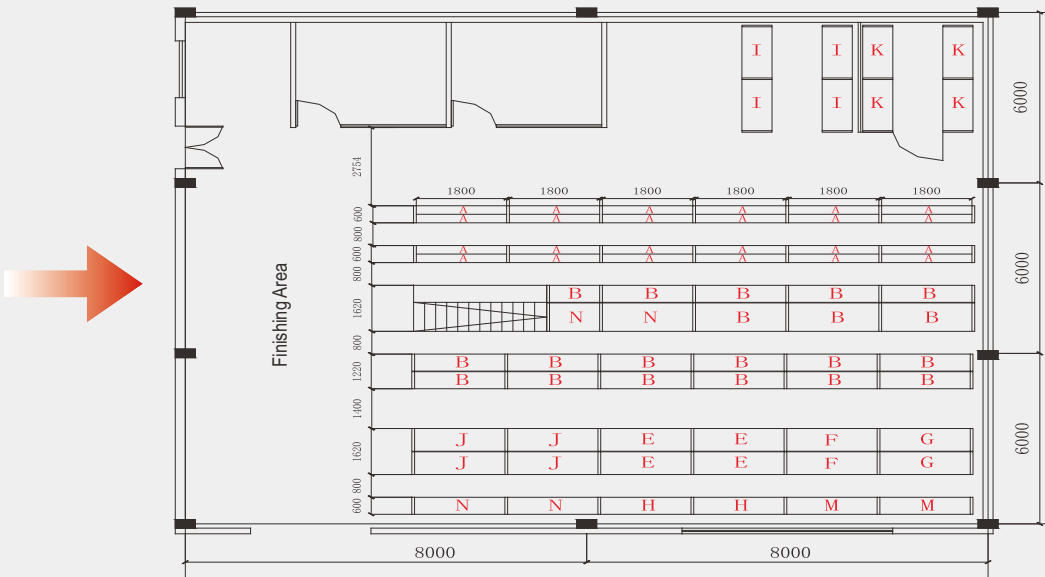
Our Solution Save, Space, Save Time & Most Importantly Save Money



A car 4S shop



Detail Design



Rack A	Small Rack
Rack B	Middle Rack
Rack C	Big Rack
Rack D	Long Rack
Rack E	Front Cover
Rack F	Car Door
Rack G	Bumper
Rack H	Exhaust Pipe
Rack I	Tire
Rack J	Glass Frame
Rack K	Motor Oil
Rack L	Fender Rack
Rack M	Shock Absorbers
Rack N	Pendant
Rack O	Headlights

X ---> Back Net
O ---> Guardrail



PT. INDOTARA PERSADA

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