MORE EFFICIENT / MORE ECOMOMIC



ADVANCED
STORAGE SOLUTION
UNION LOGISTICS SYSTEM

江苏优力恩物流设备工程有限公司
JIANGSU UNION LOGISTICS SYSTEM ENGINEERING CO.,LTD



ADVANCED STORAGE SOLUTION

UNION LOGISTICS SYSTEM >>

CONTENT

Directory

Storage Automatic Equipments 01-19
- ★ ASRS System
- ★ Conveyor system
- ★ Rack Clad
- ★ Radio Shuttle Rack

Shelving & Racking 20-27
- ★ Beam Racking
- ★ Drive-in Racking
- ★ Medium/Light duty shelving

Special Purpose Racking 28-32
- ★ Mezzanine Racking
- ★ Gravity Racking
- ★ Cantilever Racking

Small Storage Equipments 33-36
- ★ Steel pallet
- ★ Stacking Racking
- ★ Mesh Box Pallet
- ★ Wire Mesh Box

Show Case..... 37-41

ABOUT US

UNION LOGISTICS SYSTEM

Jiangsu Union Logistics System Engineering Co., Ltd was founded in 1995 as a professional manufacturer for all types of storage system. We design, calculate and manufacture storage systems, going from the most basic to the most sophisticated and advanced solution

We innovate to develop new products and optimizing new ones with continuous R&D. Our storage equipment have been used in different fields in more than a dozen countries around the world.

UNION LOGISTICS SYSTEM

COMPANY PROFILE

In 2012 Union Logisitics System decided to expand the business in the areas of Automation and materials handling solutions. Since then we have won the appreciation of our customers in different industry which we can see in our customer portfolio page.

We provide cost effective solution with designing, manufacturing, installation, project management and after-sales service. Our quality is a priority in the manufacturing and development with certification ISO9001. We have developed a series of material handling product for material handling solutions. Our range of stacker crane and shuttle with WMS/WCS is able to meet most of customer demands for their needs. We will always strive to improve intelligent our technologies to meet the market demand with competitive pricing and excellent service.





PART ONE

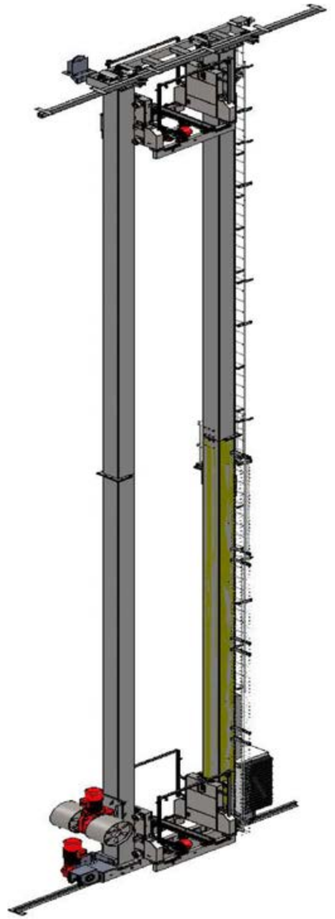
STORAGE AUTOMATIC EQUIPMENTS

Storage Automatic Equipmentss

AS/RS SYSTEM

ASRS or AS/RS refers to a computerized robotic system that automates operations such as unloading, sorting, put-away, storage, order-picking, staging and loading. Systems typically consist of 4 main components: the storage rack, the input/output system, the storage and retrieval (S/R) equipment, and the computer management system.





Storage Automatic Equipmentss

AS/RS SYSTEM











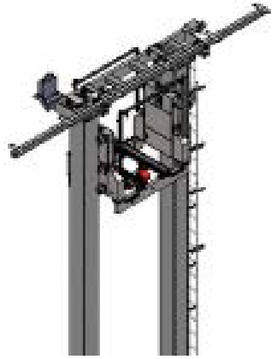


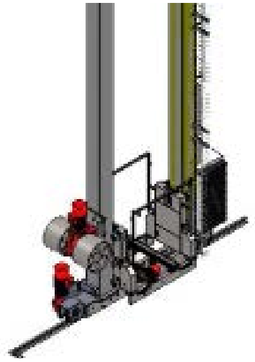
UNION LOGISTICS SYSTEM

Stacker Crane Specification

Type	Light duty stacker crane	Mid duty stacker crane	Heavy duty stacker crane
Load Capacity(kg.t)	20~200kg	250~1500kg	2.0t/2.5t/3.0t….
Rack height(m)	<=25	<=25	<=25
Cargo size(m)	Customized	1.2*1.0;1.2*1.2 or customized	Customized
Fork type	Single fork, double fork, multi fork	Single fork, double fork, multi fork	double fork, multi fork
Running speed(m/min)	0~240(frequency control)	0~180(frequency control)	0~180(frequency control)
Lifting speed(m/min)	0~60(frequency control)	0~50(frequency control)	0~40(frequency control)
Fork telescopic speed(m/min)	0~30(full load)/40(unload)	0~20(full load)/40(unload)	0~20(full load)/40(unload)
Communication method	Infrared /wireless communication	Infrared /wireless communication	Infrared /wireless communication







Storage Automatic Equipmentss

CONVEYOR SYSTEM

The conveyor line is mainly to complete the delivery of material tasks in the surrounding warehouse, production workshop and packaging workshop site, set by a number of belt conveyor, roller conveyor and other components of a conveyor chain.



RGV

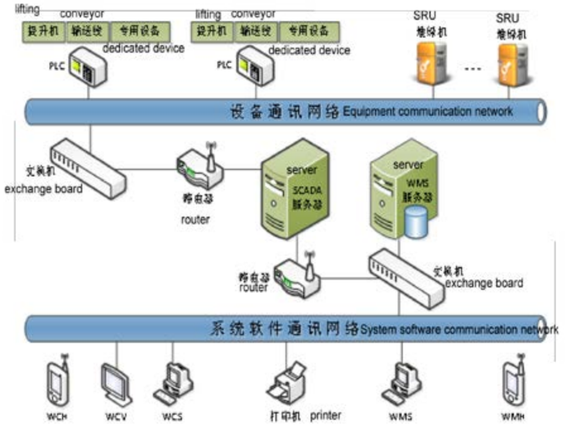


RGV rail shuttle car is widely used in the automated logistics system, often using reciprocating dual-track shuttle car form. RGV shuttle car means that the material transportation mainly uses the chain type, the equipment installs the walking wheel, walks along the fixed track.

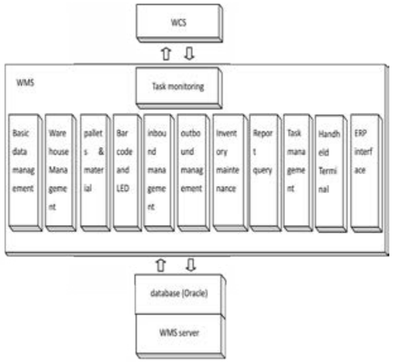
RGV shuttle car main performance specification

Running speed	120-160m/min
Precise Localization	+5mm
Delivery speed	Rmin=800mm
Turn radius	1000kg
Max. Loading	DEMAG/SEW
Motor reducing gear	Towline cable
Conducting mode	Sliding wire
Communication mode	Far infrared communication; Industrial Ethernet; Radio base station; Serial communication
Control mode	manual operation; Online automatic

WMS SYSTEM



WMS SERVER



Warehouse management software system is the company independent research and development, multi-storey architecture is the logistics system control platform. Simple and intuitive operation, support multi-language, parameterized configuration, dynamic plug-in scalable. Contains receipts. storage. Picking, shipping, inventory control, inventory and other core functions. Support one-dimensional, two-dimensional bar code and RFID technology to achieve the entire process of cargo batch management tracking.

Storage Automatic Equipmentss

RACK CLAD

Self-supporting warehouse are major works of engineering in which the racking itself makes up the building's structure, together with side and roof cladding. The racking structure supports not only the actual goods and the different building elements but also the thrust of the handling devices and the external elements such as wind, heavy snowfalls, seismic movement, etc. The maximum height is limited only by local standards and by the reach height of stacker crane or forklift trucks. This means that warehouses of more than 30 meters high can be built.

Clad rack warehouse are perfect for both ambient and cold storage.



UNION LOGISTICS SYSTEM

Storage Automatic Equipmentss

RACK CLAD





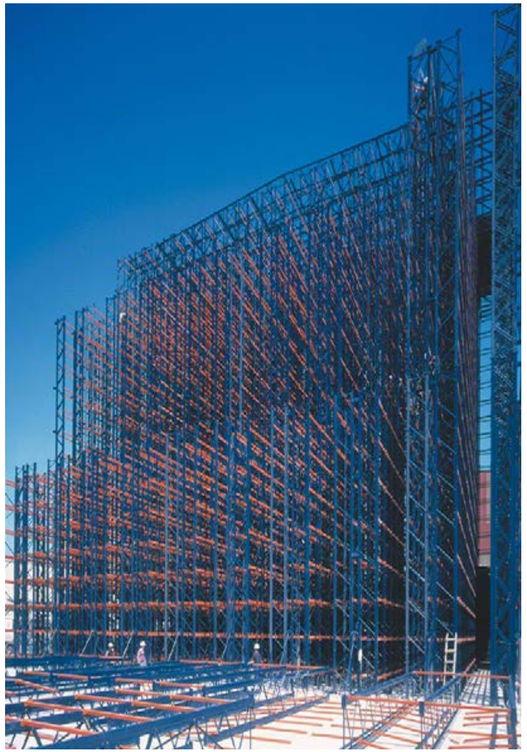
These warehouses consist of the racking system that provides the basic structural support for the building's roof and walls. Maximum density storage solution possible for every type of pallet rack reduces the construction costs, lead times and building footprint. Rack supported building concept is obviously the

optimum solution to store at a large heights making the most of the available surface.

With the warehouse management system and total automation, total safety is assured for the operators as there is no human interference required within the fenced warehouse functions.



Total Safety Is Assured



Storage Automatic Equipmentss

RADIO SHUTTLE SYSTEM

UNION Radio shuttle system is a racking system with high density storage including racking system and radio shuttle vehicle, which works with forklifts. The high efficient storage solution provides a new option to maximum the utilization of warehouse volume.





▲ Remote control



▲ Charging cabinets and battery



▲ Shuttle car

Shuttle carrier and shuttle pallet runner

A compact storage system in which a shuttle driven by an electric motor runs on rails inside the storage channels, replacing forklifts, considerably reducing operating times and enabling items to be grouped by channels rather than complete lanes.

Save space

Increased number of pallets in depth: storage channels can exceed 40 m in height; the limit is imposed by the handling means used.

Save time

Loading and unloading times are reduced, since the operator does not need to work inside the lanes. Movement speed of the shuttle of 90 m/min when empty, or 45 m/min when loaded.

Load lifting cycle of just 2 seconds.

Save money

The result of the benefits mentioned previously, together with the consumption of energy, is a reduction in costs, making Pallet Shuttle one of the most cost-effective compact storage systems.



Main Data Of Union Standard Radio Shuttle

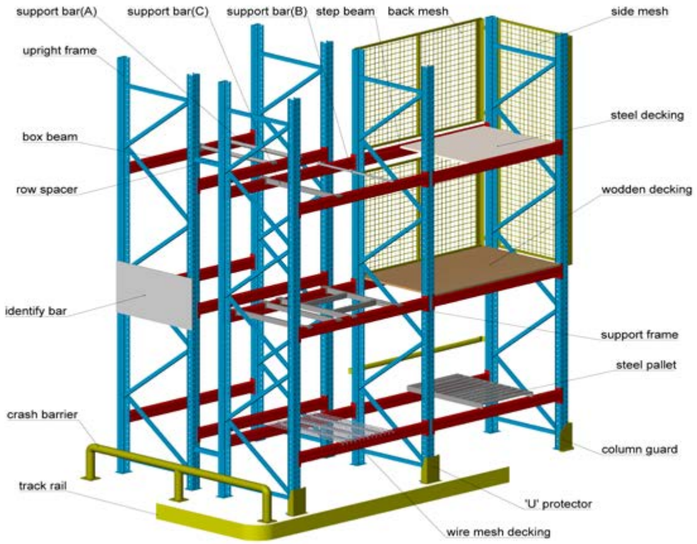
Item	Type	Specification
1.	Size range available(mm)	W1100~1250,D800~1100
2.	Deflection of pallet	Max.20mm
3.	Total weight of loading	Max 1500kg
4.	Running without loading	1.1m/s
5.	Running with max loading	0.5~0.9m/s
6.	Duration of charging	About 3 hours
7.	Methods of Remote control	Radio Frequency 433MHz/3.7V 1500AH
8.	Remote controller	Handheld remote control
9.	Programmable logic controller	Siemens PLC
10.	Integrated Performance	Integratable with WMS□WCS and vehicle dispatch system



PART TWO

SHELVING & RACKING

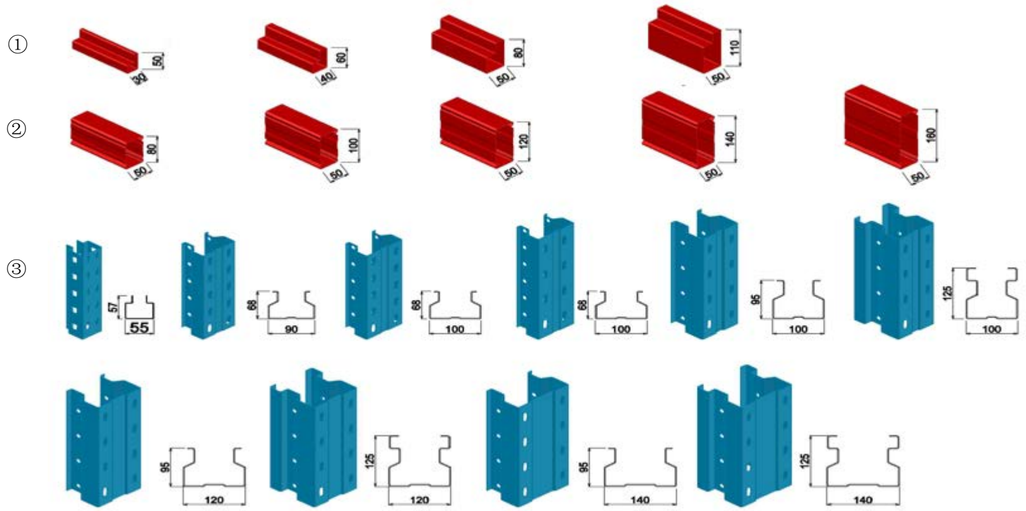
BEAM RACKING



Beam Racking

Easily installed, cost-effective and versatile, adjustable beam racking is the most widely used of pallet storage systems and allows direct access to each pallet stored. With adjustable beams, racking can be re-configured to accommodate changes in the type of goods stored and wide aisles allow access by all types of truck, making specialized handing equipment unnecessary.

High Safety Factor >>



Feature:

Cut-in composite structure, the height of each beam can be adjusted by pitch 75/50mm freely.

Made of special-mode steel, make the best of space, increase the store capacity, with high safety factor, and can be made according to the need of customers.

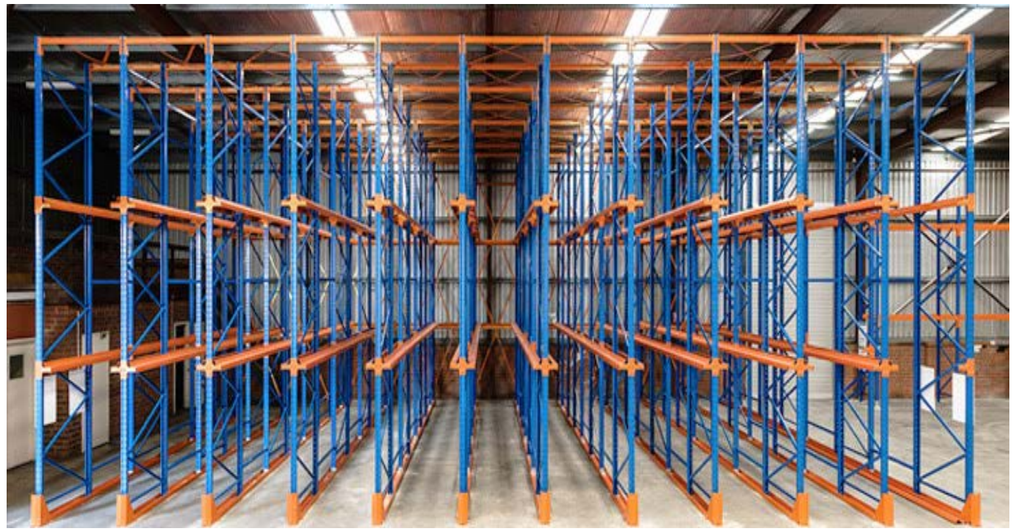
Remark: ① Step beam ② Box beam ③ Upright

UNION LOGISTICS SYSTEM

Shelving & Racking

DRIVE-IN RACKING

Using minimal space for access aisles and lanes. Union`s Drive-in racking provides a high density and very space-efficient bulk storage system. With the first pallet into a lane being the last out, Stock selectivity is restricted, but when loads are delivered and dispatched in batches, this is not a difficulty. Pallets are stored on runners in the depth of the racking and trucks enter to deposit or retrieve loads.



Features

01 Made of continuous rows of upright frames interconnected by spacers.

02 Forklift trucks drive along each aisle(lane)to store or retrieve pallets

03 Each aisle consists of several levels of pallet support rail.

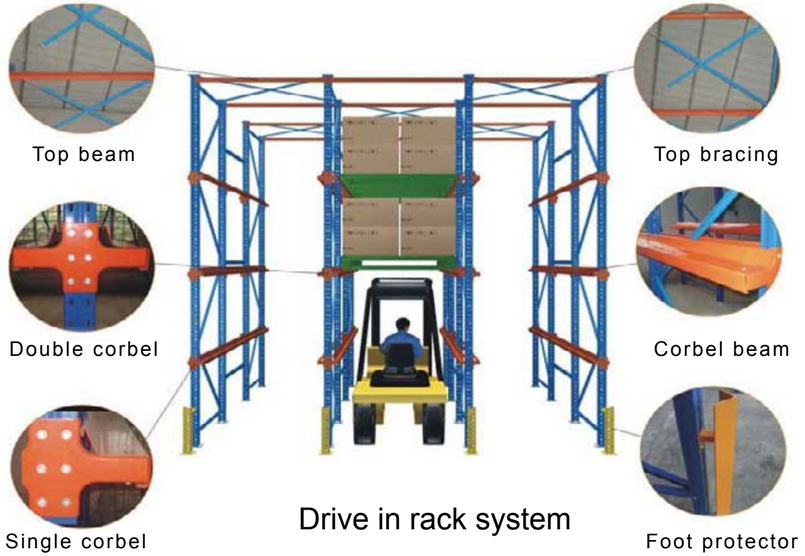
03 Pallets are placed on the pallet support rail one after another along the aisles.

04 Top and back bracing are used to stabilize system structure

05 Top and back bracing are used to stabilize system structure

06 All components are epoxy powder coated expect the galvanized footplates.

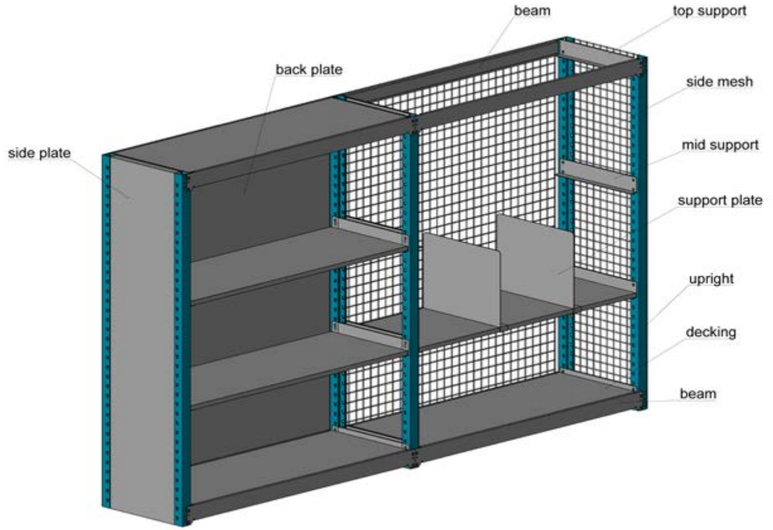
07 Accessories include shim, upright protector, forklift guide rail.



Shelving & Racking

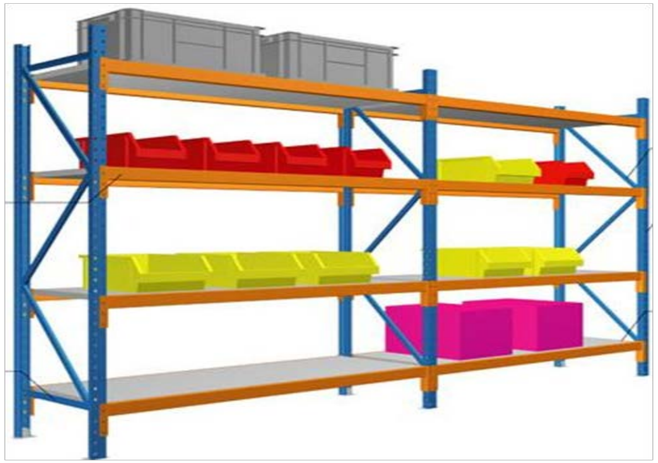
MEDIUM/LIGHT DUTY SHELVING

Medium Duty Shelving Type A



Typical product dimension and loading capacity				
Depth(mm)	450	500	600	800
Length(mm)	1200	1500	1800	2000
Height(mm)	1500	1800	2000	2200
Loading capacity (kg/layer)	150-350			
Adjustable pitch(mm)	50			

Medium Duty shelving Type B

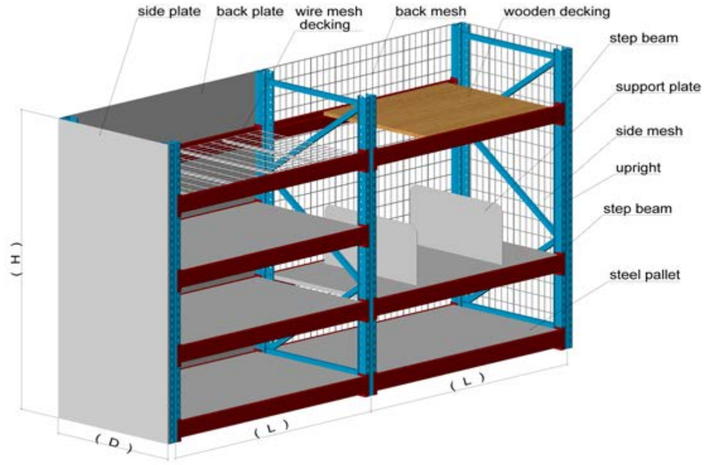




Typical product dimension and loading capacity				
Depth(mm)	450	500	600	800
Length(mm)	1200	1500	1800	2000
Height(mm)	1500	2000	2200	2500
Loading capacity (kg/layer)	250-1000			
Adjustable pitch(mm)	50			

Light Duty Shelving

Light duty shelving `s loading is the smallest of all racks, usually carrying less than 150kg / layer.
It can be sprayed into different colors, low cost, easy assembly and disassembly.



Typical product dimension and loading capacity				
Depth(mm)	450	500	600	800
Length(mm)	1200	1500	1800	2000
Height(mm)	1500	1800	2000	2500
Loading capacity (kg/layer)	50-180			
Adjustable pitch(mm)	5			



PART THREE

SPECIAL PURPOSE RACKING

Special Purpose Racking

MEZZANINE RACKING



Union mezzanine racking designed can be designed up to 3 floors supported by racking to improve the space of your warehouse. The mezzanine design can be customize according to your specification including the size, load capacity and the color.

Features

01 With composite racking structure,patented light-steel floor panel structure.

02 Floor panel with large loading capacity, low cost quick construction.

03 Can be designed into one layer or multi-layers according to actual situation.

03 Ensures fullest space utilization.

04 Provides direct access to all pallets.

05 Surface coated or galvanized and color optional

06 Can be designed according to client`s requirements.

07

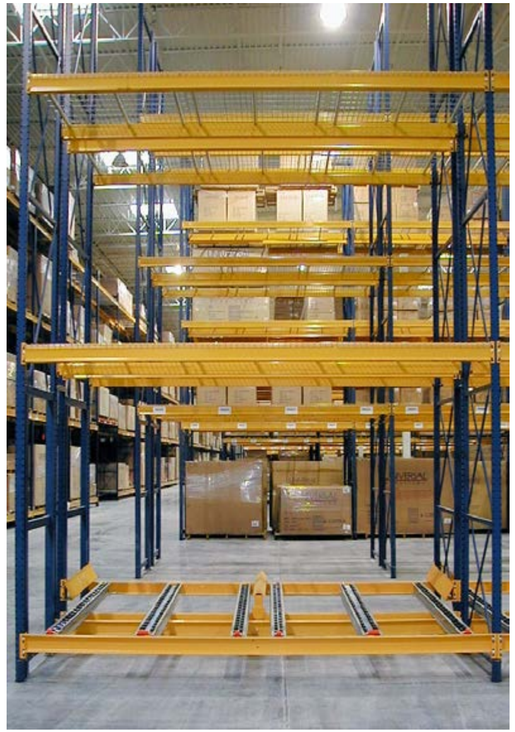


Special Purpose Racking

GRAVITY RACKING

Union`s gravity racking is almost the same as pushing back rack which is “first-in, last out” under the influence of gravity, pallets move at a controlled speed through roller lines due to a light gradient which enhances sliding.





Special Purpose Racking

CANTILEVER RACKING

Cantilever racking was designed for effective storage and handing of items such as lumber. Popes, bar stocks, timbers or other similar items. The height generally within 2meters,if use forklift can be 5meters.The length of arm also within 2 meters, the loading capacity is 800kg per arm.









PART FOUR

Small Storage Equipments

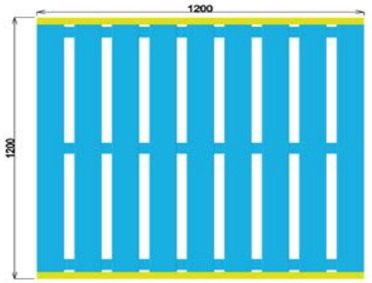
Small Storage Equipments

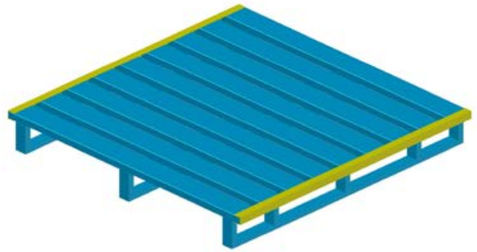
STEEL PALLET

Our Customized Steel Metal Pallets are used for loading, unloading, moving, and storing cargos, high quality and charming appearance. Widely used in pallet rack system, also the drive in/through rack system, automatic rack systems.









1	High capacity
2	non-reversible welded steel pallet
3	2 / 4 way access for both fork and pallet trucks.
4	Power coating in blue color or customized / Galvanized
5	Cover completely

Small Storage Equipments

STACKING RACKING

Heavy duty stacking racking is widely used in manufacturing , transportation, removing as well as packing.
All UNION stack racking with powder coating or galvanized are widely used in the food.



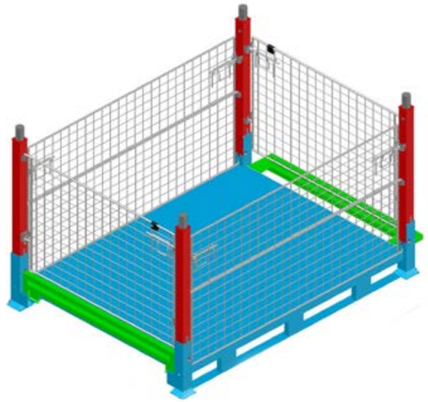


Size	Customized
Loading capacity	500kg-5000kg
Material	C shape steel plate, steel plate, steel tube, Angle Steel
Color	Customized

Small Storage Equipments

MESH BOX PALLET

Warehouse Storage Use Mesh box pallet is widely used in manufacturing , transportation, removing as well as packing. All UNION stack racking with powder coating or galvanized are widely used in the food and pharmaceutical industries. It can be collapsible and foldable.





SHOW CASE





ASRS

ASRS



ASRS



Rack clad

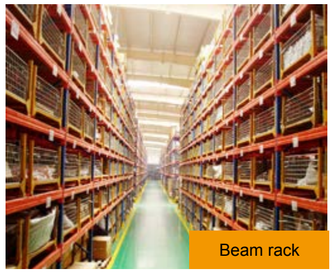


ASRS

SHOW CASE


Mezzanine rack


Drive in rack


Beam rack


Radio shuttle rack


Gravity rack


Cantilever rack

FACTORY EQUIPMENT & CERTIFICATES




CERTIFICATE OF REGISTRATION


CERTIFICATE OF REGISTRATION


实用新型专利证书













COOPERATION ENTERPRISE



UNION LOGISTICS SYSTEM

COOPERATION ENTERPRISE

