

PalletLock

Total Storage Solution



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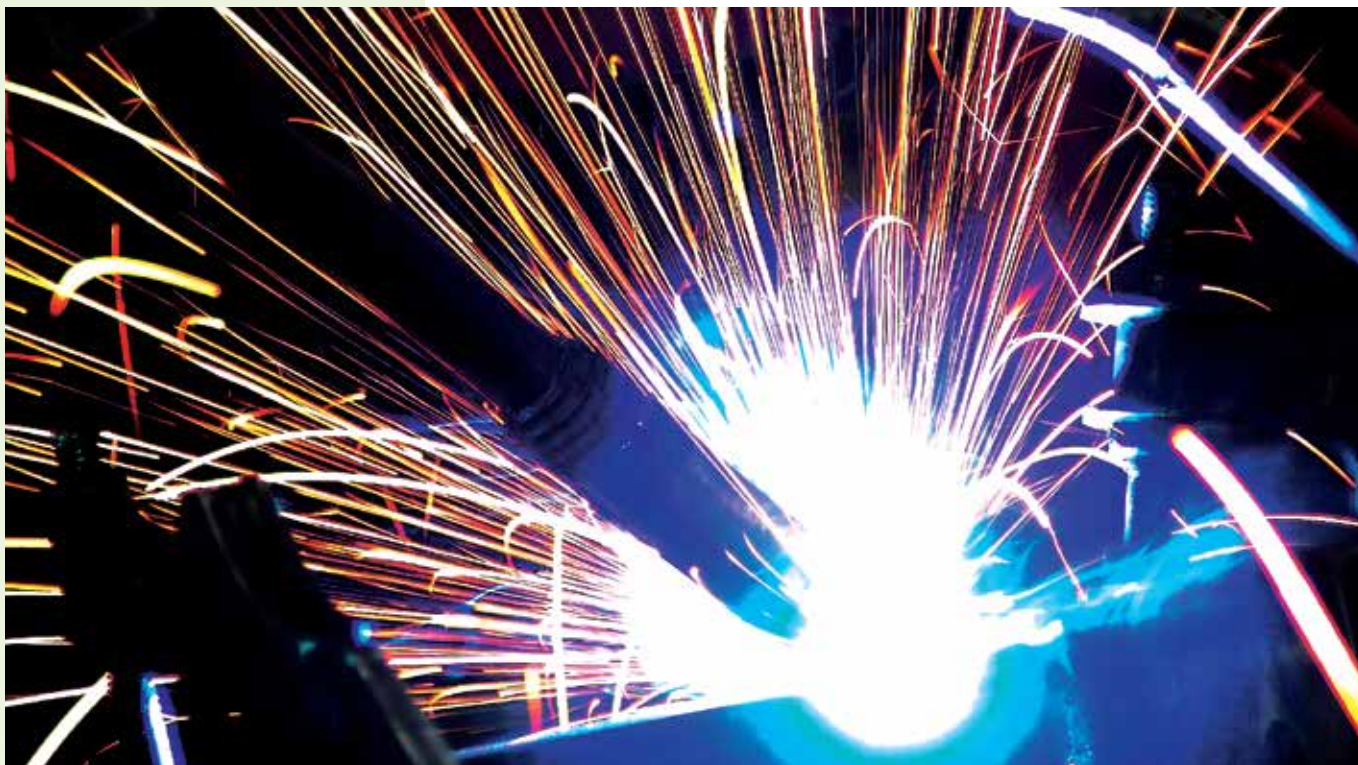


Adaptability

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INTERNATIONAL QUALITY



Product Tested in Bath University in UK



With latest design robotic assisted low temperature auto welding facilities and a 190 meters long fully automated powder coating machinery, our customers can rest assure of best products produced. Besides of our product's quality, our team of engineers and experienced technical staff are always at your disposal to any storage consultations required.

The company has invested into Computer Aided Design (CAD) to provide precise layout for the proposed storage space for each customer to visualize the design before fabrication.

Our design loading shall be guided by international recognized safety factor according to S.E.M.A. and manufactured according to the correct high tensile steel for each component.

Our vision is to provide our best technology in storage solutions for all our present & future customers.

TOTAL STORAGE SOLUTION IN ONE STOP

From shelves to pallet racking suited to everything from small storage facilities with a few bays of racking to large scale warehouses measuring in the millions of cubic meters, DMS tailors storage solutions to your needs.

When it comes to supply chain knowledge and storage that makes business function productively and profitably, get the best in the world - from DMS.

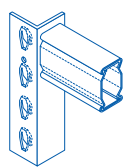
MAKING THE WORKPLACE WORK !

Every component of the DMS PalletLock system has been designed and engineered to fit the most stringent design criteria and global standards.

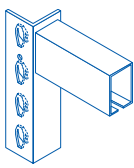
We've added strength where necessary. Enhanced design features for greater flexibility and versatility. Improved impact resistance. Made it easier to construct - and dismantle. And made it safer to build - and to use.

Beams, uprights, connectors, base plates and bracing have been recently redesigned. It is a system that comes together - perfectly. It's engineered to perform above it's stated criteria. And more importantly, it's professionally tested time and time again to ensure it does.

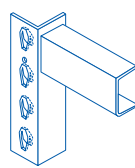
The Omega Box Beam shape with an additional clamping process to form a maximum resistance to overloading, twisting and accidental impact. DMS also provides a range of special application beams including open, channel, stepped and RHS beams.



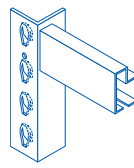
Box Beam



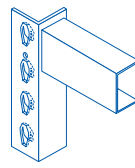
Open Beam



Channel Beam



Stepped Beam



RHS Beam

UNIQUE *PalletLock* SYSTEM

- DMS upright frames is manufactured from high-tensile steels, which has a built in minimum safety factor of 1.65:1 to give a high resistance to compression and buckling load.
- The rack columns and bracing are manufactured to tight tolerances. Frames shall be of totally bolted construction. This ensures a more consistence 'square' and measurable strength.
- Uprights are available in 3 width; 80mmW, 90mmW and 105mmW. Different thickness ranging from 1.5mm.T to 2.6mm. T allow for different load carrying capacity.
- Each frame consists of 2 horizontal bracing at extreme ends with diagonal bracing intersecting at 600mm interval to form a rigid frame construction channel. Channel bracing are roll formed to section dimension of 36mm x 25mm x 8.0mm lipped x 1.5mm.T fastened to upright using hexagonal bolt & nut M10 x 65mm.
- Upright face are perforated with two rows of slots at 50mm pitch for positive beam engagement. One row of holes 10.5mm diameter at 50mm interval along the reversed flanges of upright are provided for fastening of bracing.
- Upright base plates are anchored to floor using 2 nos of M10 x 75 mechanical expansion bolts.



SELECTIVE PALLET RACKING

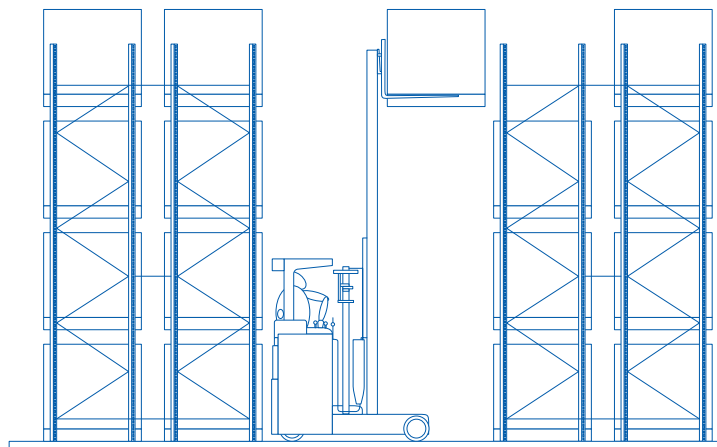


Advantages :

- Individual access to all pallets to full height of warehouse.
- Simple stock rotation achieved. Rapid handling of almost all types of palletized goods.
- Easy beam adjustment accommodates variable pallet heights.
- Compatible with many handling equipment styles.
- Economical shelving beams can be added for low level picking.
- High average locations used 95%, for 100% accessibility, good stock rotation.
- Bottom level of pallets can be stored on the floor, lowering structure costs.
- Strength and rigidity prevents compression damage to goods.



DMS Selective Pallet Racking is one of the most widely used systems for storing palletized unit loads. It consists of upright frames and horizontal beams that interlock to form the racking structure. Within the rack each pallet is individually accessible. Pallet Racking arranged in a wide aisle pattern requires no specialized handling equipment. Arranged this way it gives high quality storage but may only utilize 40% of the floor space. However, fast throughput and ease of loading and unloading make this type of storage extremely popular.

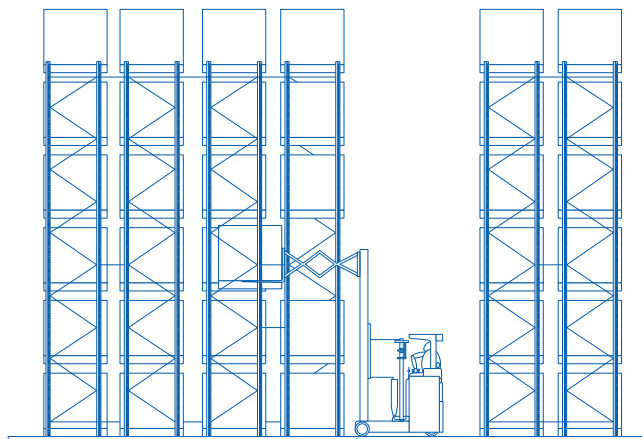


DOUBLE-DEEP PALLET RACKING



A derivative to selective pallet racking, the system requires the use of a specialist reach truck. Whilst achieving increases in capacity of up to 30% above selective pallet racking, only 50% of the pallets are immediately accessible.

This system does provide an excellent method of increasing warehouse capacity when either fast movement of pallets is not critical, or alternative system such as Drive-in which require high numbers of homogeneous pallet types are not possible.



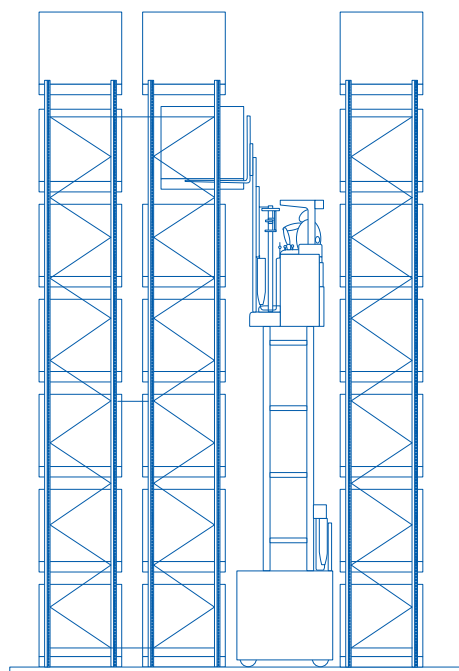
- Average stock rotation.
- Average order picking. Only 50% selectivity; slow picking rate.
- Good product protection. Each pallet is supported by beams.
- Average floor area utilization.
- 60% Floor utilization of overall warehouse area.
- Upper levels can be fitted with guide rails to assist in locating pallets.



VERY NARROW AISLE PALLET RACKING

DMS Narrow Aisle Racking Systems have aisles around 1.7 metres wide. This frees up to 45% for the floor space given over to aisles in a wide aisle scheme.

The net result is a dramatic increase in space utilization. Each pallet is supported which means that stock rotation and accessibility are as good as a wide aisle system.



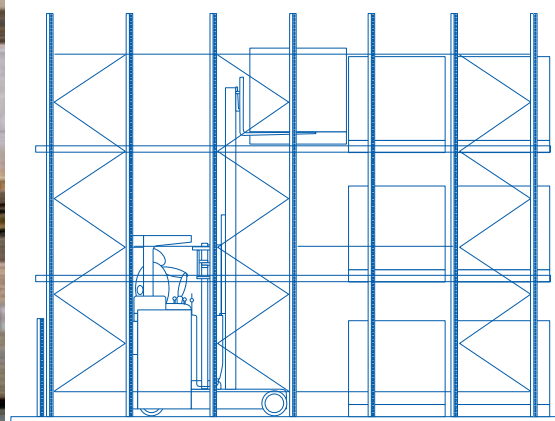
DRIVE-IN PALLET RACKING



If storage capacity is a prime requirement of your warehouse then DMS Drive-in Racking may offer the solution. Eliminating aisles and lanes produces a high storage density at the expense of selectivity. The first pallet into a lane will be the last out. However, if pallets are received and dispatched in batches this is not a disadvantage. Each pallet is supported so damage from crushing is eliminated.



- Mechanical handling equipment and operation of racking system.
 - (a) Suit either reach or counter balance truck operation.
 - (b) Care must be taken with positioning of first level of pallet rails, as truck enters racking system.
- Limited stock rotation.
- Limited order picking. Only 20/30% selectivity; slow picking rate.
- Good product protection. Each pallet is supported on pallet rails.
- Average floor area utilization.
- 50% nett pallet area m2 usage of overall warehouse area.



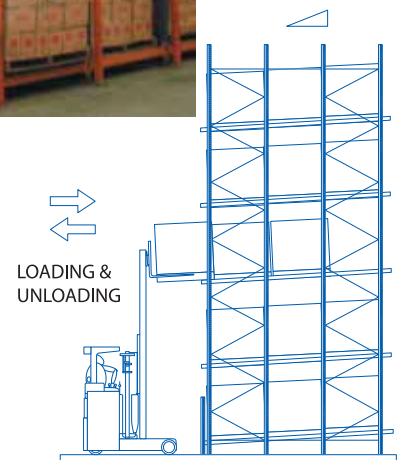
PUSH BACK PALLET RACKING

Push Back Racks offer the same storage density as drive-in / drive-thru racks but greater selectivity.

All loads are stored and retrieved from the aisle. Loads in each lane rest on a cart on a rail that slopes gently toward the front. When a new load is deposited into a lane, it 'pushes back' the one already at the face and all those behind. Then, when that load is picked, the contents of the lane all move gently forward again.

The result is to eliminate honey combing or empty pick faces. Obviously the ideal application for Push Back Racks will be where all loads in a lane are identical and first-in / first-out stock rotation is not crucial.

This ingenious high-density storage system is able to handle just about any pallet design and is tailored to meet every requirement in the area of fast moving goods.



PALLET FLOW RACK

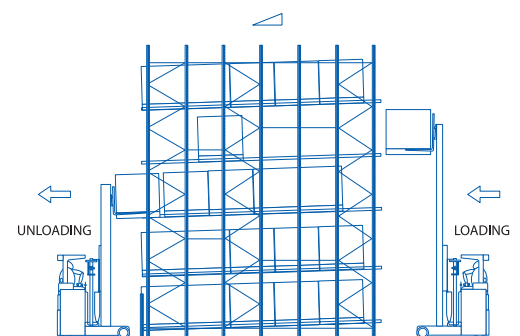
These are similar to Push Back Racks except loads are generally deposited on one side and flow gently to the other. In many ways a Flow Rack is like a conveyer or within a rack structure. Flow Racks are used for both cartons and pallets. They may be many units deep. Most applications are where the carton or pallet at the front is going to be picked from and the ones behind are reserve storage.

By achieving high-density, dynamic storage, Flow Racks offer excellent payback. As well, they help keep people at a safe distance from the forklifts that are replenishing the racks.

First In-First Out (FI-FO)

Advantages :

- Automatic control by date
- Automatic control by quantity
- First In-First Out (FI-FO)
- Permanent inventory control
- Guaranteed dynamic inventory (not static)



LONGSPAN SHELVING



DMS Longspan Shelving is an easy to assembly system which is ideal for the storage of large, heavy or awkwardly shaped items. The system comprises just two components, frames and beams plus decking material. The purpose designed beams can be up to 2450mm long and locate into the frames in seconds. All that remains is to drop the decking into place which can be either steel shelves or plywood.

The DMS Longspan Shelving can also be designed to support a mezzanine floor overhead. This can be the ideal solution where bulky items are required to be stored at ground floor level. The first floor level can be used to accommodate additional shelving, office space or open storage.



RAISED STORAGE SYSTEM



DMS raised storage system is the fast way to add extra floor space within the shell of an existing building. In fact, you can virtually double your floor space without changing premises - or increasing your rent.

Raised storage areas provide the means to create separate zones within one centralized facility, so you can separate areas for bulky items, fragile items, warehousing and dispatch, fast-moving and slow-moving stock, and so on.

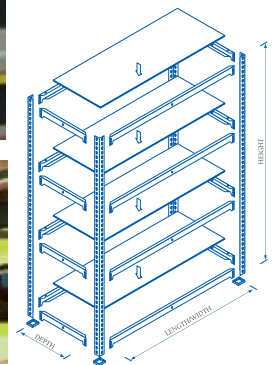
Each installation is tailored to the site and the load-bearing performance required-maximizing economy and safety.

The raised storage areas made from DMS racking are quick to install and are compatible with most existing warehouse storage systems.

BOLTLESS RACKING

DMS Boltless Racking is a tough, stable and exceptionally versatile shelving system. It's design can be tailored to your exact and is suitable for virtually every kind of item, from small components to heavy cartons. Shelves are easily adjusted at pitch of 38mm and are designed with load bearing capacities form 150kgs to 450kgs.

DMS Boltless Rack can be designed to support a mezzanine floor overhead without the need floor independent structural steel supports. This can provide a very economical solution in cases where small parts shelving is required at ground floor level. The first floor level can be used to accommodate additional shelving, office space or open storage.

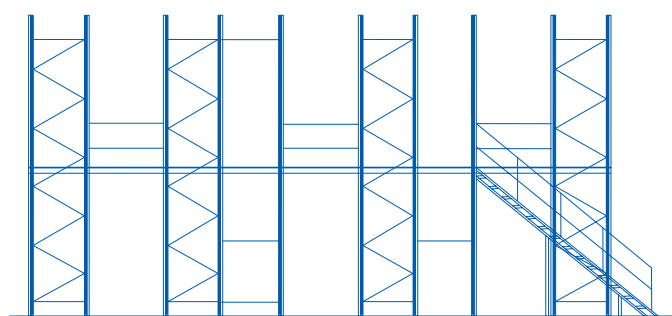


MULTI-TIER SHELVING SYSTEM

DMS Boltless Racking can make an easy conversion into multi-tier shelving system that provides medium duty capacities at low duty prices.

Boltless Rack close tolerance high performance components make it suitable for high rise and multi-tier applications.

It is strong and durable, catering for bay loads of up to 1500kg in bay width of either 900mm to 1500mm. From one or two bays to major installations, DMS Boltless Rack is quick to install and extremely cost effective. And because DMS Boltless Rack is used by so many companies and in so many applications right across Malaysia, it is readily available.



CANTILEVEL RACK



Cantilever Racks present no vertical obstructions. Therefore, they are useful for storing long objects. Typical loads are metal extrusions, steel bars, tubes, pipes, furniture and other long items.

We supply cantilever racks to suit the job at hand, from heavy-duty styles for steel service centres to light duty styles for just plain awkward loads.

We design arms and columns according to load size and weight, and we ensure the correct allowance for vertical clearance and other important factors. We will also advise you on guide rails and entrance guards, to protect equipment and product.

DMSCantilever is available in both single sided and double sided configurations. The double sided rack provides maximum storage capacity on a single central column while the single sided rack is designed to fit flush against a wall.

STRUCTURAL STEEL PLATFORM

It is designed and constructed of structural steel profiles, DMS structural steel platforms can be decked with timber or steel mesh floor. The platform can be used for additional storage or to house an office.



AUTOMATIC STORAGE & RETRIEVAL SYSTEM (ASRS)

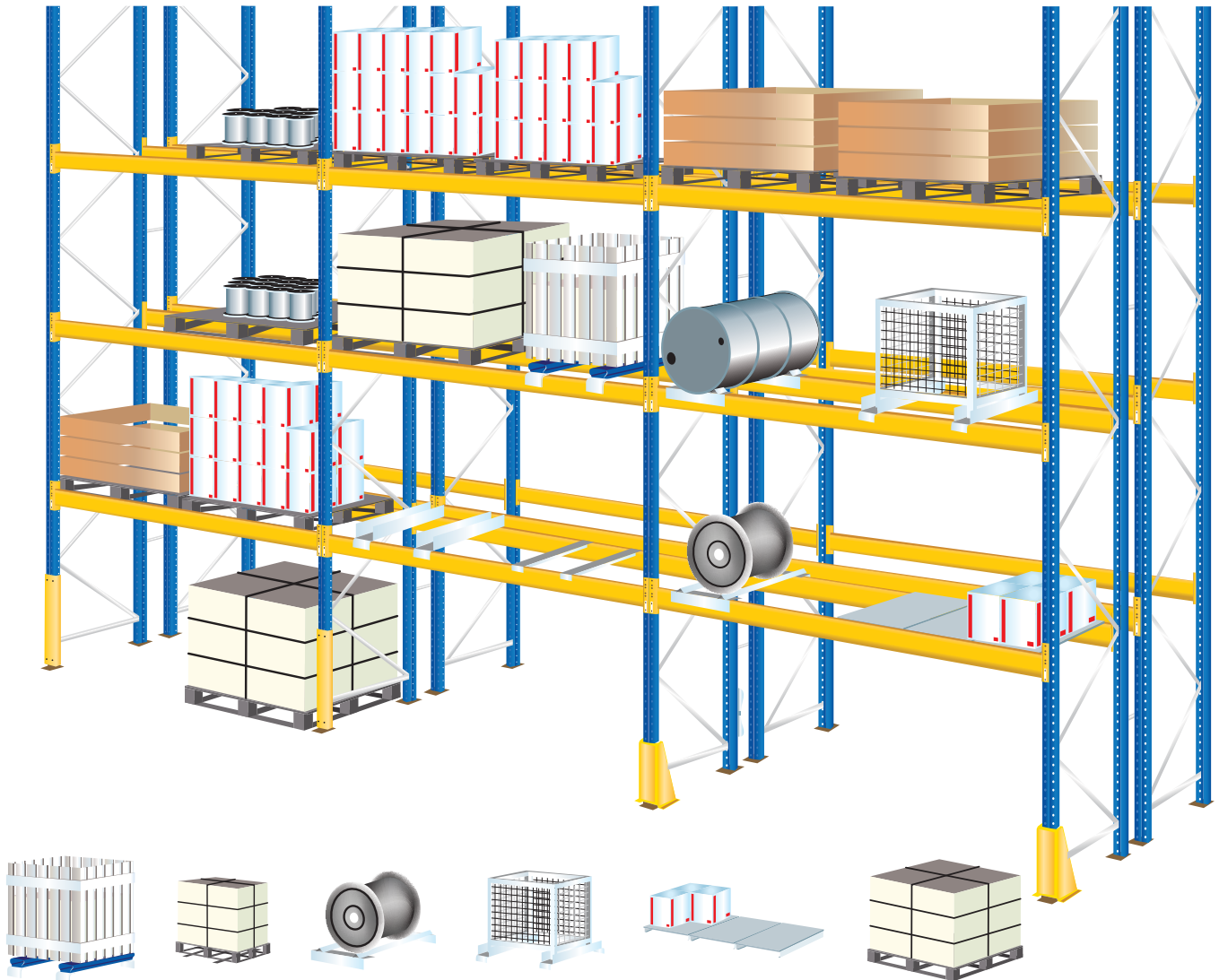
DMS profile, for its technical features, is particularly suitable for Automatic Storage & Retrieval System (ASRS) linked to Stacker cranes or other automatic material handling equipment systems.

The vertical technical characteristics of DMS Palletlock Profile and the full range of accessories designed by DMS make it possible to build high racking structures for high density and high speed storage and retrieval of pallets or mini-loads.



ADAPTABILITY

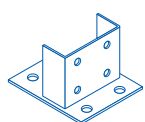
All the accessories you need to create a safe, efficient, versatile racking system, including half-pallet adapters, tunnel guards, pallet stops... and much, much more



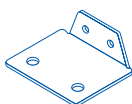
DMS Racking System offers the most flexible and adaptable format for goods storage, including crates, half sized pallets, coils and even single cartons,

PALLET RACKING MAJOR COMPONENTS & ACCESSORIES

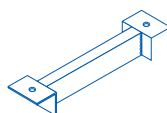
DMS Major Components & Accessories is one of the most widely used systems for storing palletized unit loads. It consists of upright frames and horizontal beams that interlock to form the racking structure.



base plate



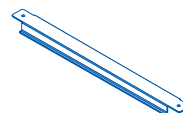
base plate



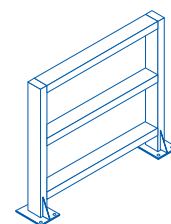
pallet support



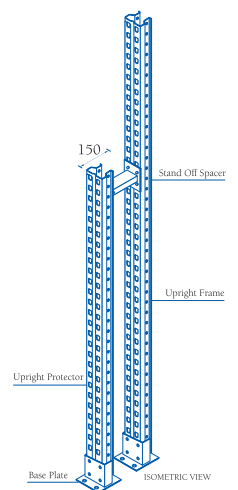
column protectors



centre support



frame protectors



upright protectors

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