

## palletstor SPACE EFFICIENT PALLET STORAGE



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The Palletstor racking system, one of the most widely used pallet racking systems available today, has evolved through our knowledge of storage and handling techniques gained during 35 years experience in the industry.



Beams can be removed and repositioned when changes in the use of the racking occur. Although Palletstor is adjustable, once the beams are slotted into position in the frame uprights, an inter-locking structure of great strength and rigidity is maintained.







# palletstor racking

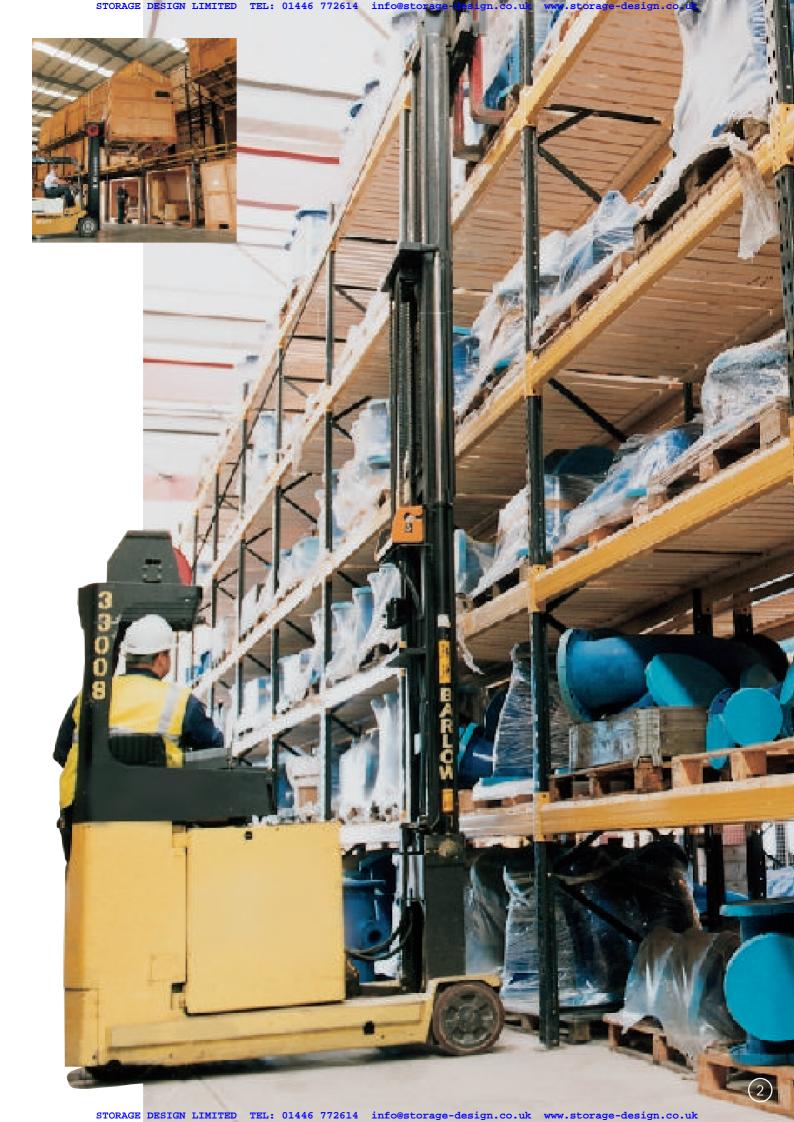
Easily installed, cost-effective and versatile. Adjustable beam racking is the most widely used of pallet storage systems and allows direct access to each pallet stored.

By selecting from a wide range of sizes and duties for standard frame uprights and beams, Palletstor racking can be configured to meet precise criteria in terms of load volume and weight, accessibility, handling requirements and space utilisation.

Palletstor pallet racking in its standard form provides safe, cost-effective storage for many different kinds of goods and materials. But for increased versatility Palletstor also offers a range of practical add-on accessories (shown on pages 13-14) to make the storage and handling of goods even easier.



Adjustable pallet racking can incorporate space-efficient 'tunnel' or 'bridging bays' positioned to improve access for lift trucks throughout the warehouse.





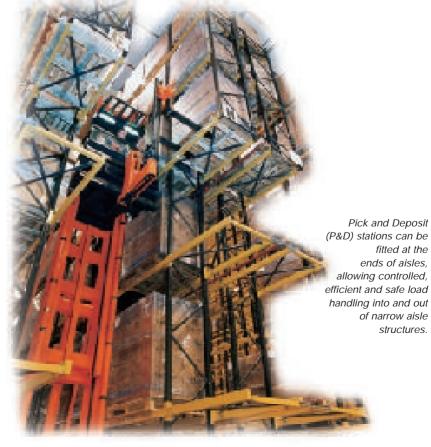


## narrow aisle

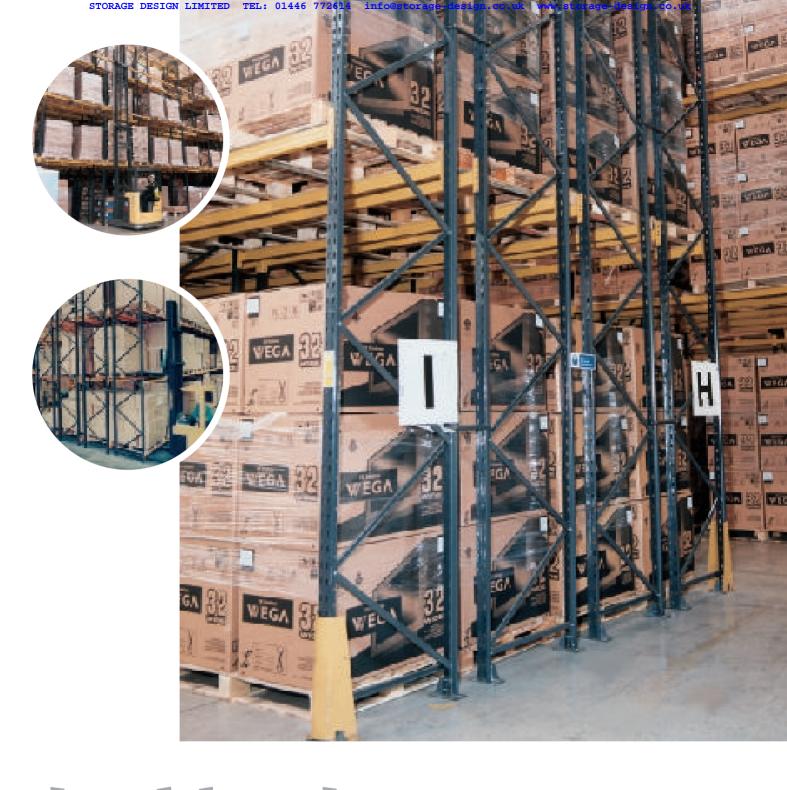
By allowing fork lift trucks to operate in aisles up to half the width required in conventional adjustable beam pallet racking, Narrow Aisle Palletstor makes excellent use of floor space and maximises the height at which goods can be stacked.

Using specialised lift trucks in either 'man-down' or 'man-up' variants, narrow aisle racking is precision designed for safe, efficient load handling within the tight confines of these space-efficient aisles.

Guidance rails or wires fitted at floor level ensure precise positioning of trucks. This has the multiple benefit of improving safety, whilst minimising the incidence of accidental damage to racking as well as improving the speed and accuracy of load handling.



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## double-deep

A variant on standard adjustable beam racking, Double-deep Palletstor, as the name implies, allows pallets to be stored two deep but still accessible from the same aisle. By reducing the number of access aisles and using the space saved to accommodate additional racking, a Double-deep configuration provides a highly space-efficient storage system.

Although the speed of access to all of the pallet positions is restricted, with an efficient stock management system this can easily be compensated for to take advantage of the increased storage density.



Lift trucks with telescopic forks are used to make efficient use of double-depth pallet racking.



### **Palletstor**

## drive-in racking

### Palletstor drive-in racking

provides a highly space-efficient solution to the storage and throughput of palletised goods.

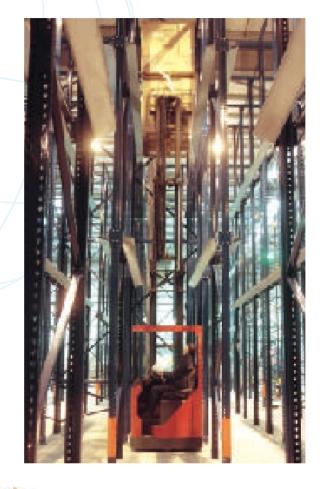
By dispensing with access aisles drive-in racking provides a high-density of storage in a given area to increase capacity by some 60-80% over conventional 'aisle' racking.

Pallets are stored on guide rails in the depth of the racking and forklift trucks enter these 'storage lanes' to deposit or retrieve loads.

Access can be from one end (the true 'drive-in' configuration) or from both ends ('drive-through', for improved stock rotation).

Racking heights up to 11 metres allow the full height and floor area of the building to be used to provide maximum cubic storage space.

**Drive-in racking** - the ideal solution for optimum space utilisation without requiring specialist handling equipment.















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## dynamic storage







### pallet live racking

Working on a first-in, first-out basis, dynamic Live Palletstor provides extremely high levels of storage density in a given area.

Pallets are loaded onto dedicated lanes of inclined gravity rollers which are set at a fixed gradient. When a load is taken from the picking face, the next pallet rolls into position, with replenishment stock loaded at the opposite (upper) end of the lane.

Stock rotation is therefore automatic with the minimum of fork lift truck movements required to handle the flow of goods.



With pallet separators and brakes fitted, each load is segregated within the lane, preventing pressure accumulation or crushing.





### carton flow racking

Carton live storage or 'flow racking' operates on the same principle as pallet live storage, but is used for stock which needs to be hand-loaded and picked.

Live storage systems reduce order picking times and help minimise errors, as not only are items presented precisely at the picking face, but effective management of the throughput and stock levels of goods can also be easily maintained.



The angle of incline of the roller trays, the size and number of rollers within the trays, and the load capacity of the support frames, are tailored to the size and weight of the items stored.



### push back racking

Effectively utilising floor and cubic space, dynamic Push-back racking is amongst the most space and time-efficient pallet storage systems available.

Pallets are loaded in sequence onto wheeled carriers of differing heights and are pushed back along inclined steel guide channels to utilise the full depth of the racking.

Pallets can be stored up to four deep and when a load is retrieved the remaining pallets roll forward into position at the picking face.

Pallets are retrieved on a 'first-in, last-out' basis and with each product having a dedicated lane, Dynamic Push-back racking is particularly useful in marshalling areas, and for long-term bulk storage and handling.



slotted into guide channels, allow pallet movement.







## storage platforms

## and **shelving**

Create more storage space without increasing floor space - by building upwards!

Raised platforms and 'tiered' shelving systems provide a cost-effective means of utilising the height of a building for storage, thereby potentially doubling the capacity of a given floor area.

With integral walkways, stairs, safety rails and any number of shelf positions, these raised structures can be used as finished goods or component stores and also for order picking, where powered or gravity conveyors can be incorporated to move the selected goods swiftly through and on to despatch.

The strength, structural integrity and versatility of these structures is provided by Palletstor and Longspan heavy

duty shelving ranges which can also be used to create versatile wide-bay open shelving or binning systems in conventional floorlevel configurations.



For staff safety and to minimise fire risk, overhead walkways can be constructed from perforated steel planks or steel mesh, for increased light penetration, improved ventilation and efficient sprinkler operation.











# specialised storage

Whilst providing the ideal means of storing palletised loads, the versatility of the Palletstor system means large, bulky or simply awkward to store items can be accommodated using the most accessible and space-efficient methods.

Combinations of standard components and accessories with specialised 'bespoke' items create successful solutions to what may initially appear to be the most difficult of storage problems.

Raised platforms and 'tiered' systems also provide a cost-effective means of utilising the height of a building thereby maximising the storage capacity for a given floor area.

## barrier rails

Palletstor Barrier Rails have been developed to allow organisations throughout industry to protect equipment and facilities which are vulnerable to accidental fork truck damage.

As well as protecting racking and shelving in busy warehouse or factory environments, Barrier Rails segregate and protect fork lift truck battery chargers, vending machines, conveyors, factory or warehouse offices. They also serve as safety barriers in loading bays and to demarcate doorways and pedestrian areas. Barrier Rails help companies comply with the requirements of current Health & Safety regulations - to make the working environment safer.







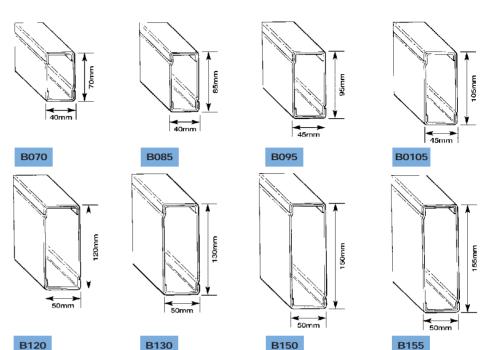


## specification

### box beams

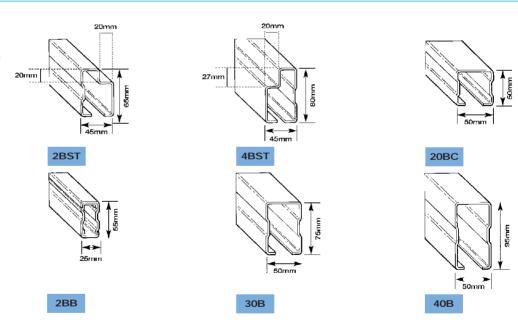
Manufactured from a pair of interlocking 'C' sections, for strength and efficient material utilisation.

The Palletstor system includes a range of eight pallet support beams, with steel sections of varying thickness. This allows the design of racking systems which cater safely and cost-effectively for the widest range of load requirements

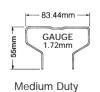


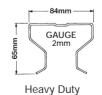
### shelving & open beams

Manufactured from formed steel sections 'stepped' shelving beams (2BST & 4BST) are used to support steel shelf panels, chipboard or other shelving material. 2BB, 20BC, 30B & 40B beams provide a wider range of loading capabilities for shelf support.



### choice of upright sections









Extra Heavy Duty

Super Heavy Duty

### standard component colours

**BEAMS & ACCESSORIES** 

FRAMES & ACCESSORIES



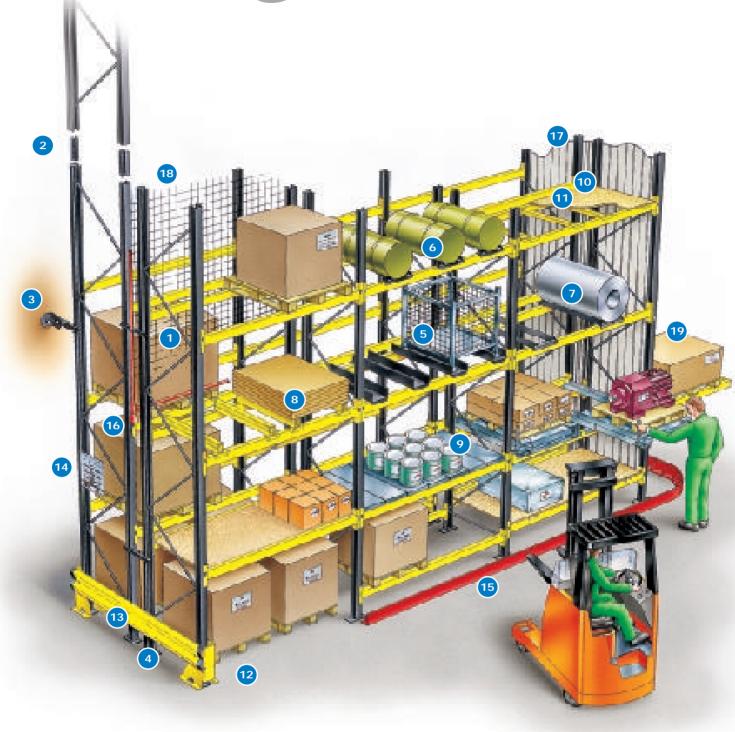


Palletstor racking components are phosphate pre-treated, then powder coated (some items wet painted) and stove enamelled to give a glossy, durable high-quality paint finish. Bracing is galvanised Customer's 'house' colours and galvanised finish available on request.

Palletstor components are made from high quality steel. Every stage in the manufacturing process is subject to stringent quality procedures, developed through years of experience.

Swatches shown give an approximate colour guide only

# racking accessories





### 1 Run Spacer

Used to maintain a fixed parallel safety clearance between double sided runs of racking.



2 Bolted Jointing Unit

Connects frames vertically, and ensures strength is fully maintained at the joints.
Allows beams to be located across the joint.



3 Wall Tie

Allows frames to be fixed to a wall for additional stability, and maintains a safety clearance between the racking and the wall.



4 Frame Footplates

Essential for stability, allow racking to be bolted to the floor. Four duties available, to complement the four frame types.

## & safety features



5 Pallet Foot Support

Used in pairs across the beams, to support box or caged pallets which have corner posts, skids or feet.



9 Steel Shelf Panel

Panels span a pair of beams to provide wide-bay steel shelving. Made from pregalvanised steel.



13 Rack End Protector

Provides protection to the ends of racking. Available also as a barrier rail (with support posts) to protect equipment and walkways.



(17 Frame Cladding

Available to suit specific applications.



6 Drum Chock

Locates on the front beam, and cradles one end of a drum or barrel. Prevents lateral rolling of drums or cylindrical items.



10 Shelf Support

Fitted to stepped beams, to provide additional support and greater loading capacity for chipboard shelving.



(14 Racking Signs

Clearly display caution and loading/safety information relating to racking usage, and conform with SEMA guidelines.



(18 Safety Mesh Screens)

Fitted for safety, and the security of palletised loads. Often fitted where a walkway or working area is adjacent to racking.



7 Coil Cradle

Spans beams to provide location and support for coiled materials - metal strip, for example - or other cylindrical items.



11 Shelf Support

Fitted to box beams, provides support and greater load capacity for shelving. Cladding location bracket also shown.



15 Guide Rails

Allow safe and accurate guidance for trucks operating within racking, particularly in drive-in or narrow aisle applications.



19 P&D Stations

Pick and Deposit (P&D) stations are used at the end of racks to assist in load handling between fixed aisle and other trucks.



8 Fork Spacer

Used in pairs across beams, to provide fork entry spaces. Provides support for and access to nonpalletised loads.



12 Upright Protectors

Protect the lower section of the uprights against fork truck collision damage. Available in 'U'-shaped or right-angled configuration.



16 Sprinkler Systems

Available for fire protection throughout the racking structure



## storage solutions

Palletstor is only one element in our comprehensive portfolio. We can also provide:-



COMMERCIAL SHELVING



MOBILE SHELVING



JUST SHELVING



**HEAVY DUTY SHELVING** 



ANGLE AND SQUARE TUBE CONSTRUCTION SYSTEMS



SMALL PARTS STORAGE



**MULTI TIER SHELVING** 



PERSONAL STORAGE



COMMERCIAL AND WORKPLACE EQUIPMENT



For further information on Moresecure products, please contact your local distributor:

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