



Integrated Warehouse Solution

TOTAL STORAGE SOLUTION



SKB PalletLock



INTERNATIONAL QUALITY



Plant at Kota Damansara, Selangor



Production Plant

MACHINERY & EXPERTISE

Key Human Capital And Precision Tooling Investment



CNC Turret Punch



Robotic Welding



Press Brake Bending



High Precision Laser Cut



5-stage Jet Wash Powder Coating Lines



Extended Roll forming

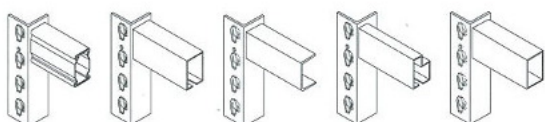
MAKING THE WORKPLACE WORK!

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

We've added strength where necessary, and enhance 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.

Beam, uprights, connectors, base plates and bracing have been subjected to meticulous testing for continuous improvement of design and increased capabilities. It is a system that comes together perfectly. It's engineered to perform exceeding its required 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. SKB 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

A public listed group in Bursa Malaysia (formerly known as Kuala Lumpur Stock Exchange) in the year 2001 and over 60 years experience in manufacturing of steel products including steel doors and roller shutters, SKB received extensive quality recognition awards and certifications both local and internationally.

The office-cum-production plant spans 50,000 square meter wide in Kota Damansara, Selangor which is an estimated 20 minutes distance from KL city center. SKB Storage Industries Sdn Bhd, a wholly-owned subsidiary of SKB Shutters Corporation Berhad, engages in the innovation, product design and fabrication of a wide variety of storage solutions. SKB highly emphasize on its design as well as production integrity to ensure that its products are certified to S.E.M.A. (Storage Equipment Manufacturers Association) guidelines and tested in Bath University, UK.



Product Tested in Bath University in UK



Quality

Our core values place significant emphasis on innovation and integrity, specifically towards high precision production capability and design innovation. Housed in our production plant are high technology machineries ranging from CNC Turret Punch, Robotic Low Temperature Welding, High Precision Laser Cut, Roll forming Facility, Large Scale Press brake Bending and last but not least, our in-house quality assured and controlled Powder Coating facility. Besides our product's quality, we have a team of dedicated engineers and highly experienced technical personnel always ready at your disposal for any storage consultations required..

TOTAL STORAGE IN ONE STOP

- SKB upright frames is manufactured from high-tensile steel, 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 tolerance. Frames shall be of totally bolted construction. This ensures a more consistent 'square' and measurable strength
- Uprights are available in 3 width; 80mmW, 90mmW and 105mmW different thickness ranging from 1.5mmT to 2.6mmT caters 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 1.5mmT fastened to upright using hexagonal bolt & nut M10 x 65mm
- Upright face are perforated with two rows of slots at 50mm pitch for 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



Why Should You Use SKB Integrated Warehouse System?

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, SKB tailors storage solutions to your needs. When it comes to supply chain knowledge and storage solutioning that enables warehouse to operate productively and profitably, reliability and innovation is key. Every component of the SKB PalletLock system has been designed and engineered to fit the most stringent design criteria and international standards.

Loading is in accordance and on par with the internationally recognised safety factor, also known as SEMA. The SEMA guidelines are incorporated into our manufacturing specifications to ensure the products adhere to best practices for each component.

SMARTSAT SMART RADIO SHUTTLE

SKB SmartSat Radio Shuttle is designed to optimise space utilisation with automated solutions. Storage with SmartSat is fast, organised and most importantly, increases storage space by reducing equipment aisles. It's versatility in sizes and weight loads enables significant improvements in time and cost-saving and reduced reliance on labour. It is suitable for small to large volume storing and retrieving of pallets thus increase in productivity.



FIELDS OF APPLICATION

- Food Industry
- Storage for Production
- Dairy & Beverage
- Logistic Centres
- Coldroom Warehouses



(ASRS) AUTOMATED STORAGE & RETRIEVAL SYSTEM

The Automated Storage & Retrieval System also known as ASRS are storage racking structures with the combination of stacker cranes and other automated material handling equipment systems interlinked into a network of its own within the warehouse.

Fields Of Application :

- Beverage Industry
- Publishing Industry
- Pharmaceutical Industry
- Low Temperature Food Storage
- Textile Manufacturing Industry
- Mechanical Industry
- Manufacturing
- Logistic Centres
- Food Industry

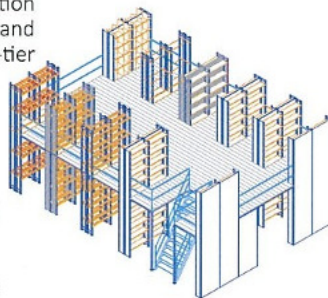


S5-MODULAR SHELVING SYSTEM

S5-Modular Shelving System is a multi functional shelving system for all types of storage requirements. It offers the best solution for an unlimited range of storage application with manually handled light to heavy loads, small and medium sized goods, bulky components and multi-tier racking system complete with mezzanine floors.

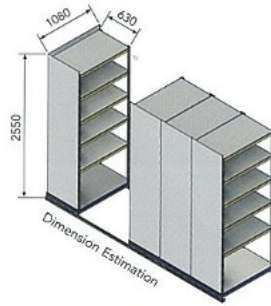
Advantages :

- Easy and rapid assembly as most components are secured to one another
- Increases storage capacity by simply adding additional shelves without the use of sophisticated tools
- With its modular design and perfect stability, a multi-tier installation can be extended at a later date
- Can be extended in height, length and width
- Excellent loading capacity
- Very versatile solutions to meet rapidly changing logistic requirements
- Wide range of accessories and components such as dividers, doors, clothes hangers, horizontal beams, side and back cladding can be adapted into the system
- Any storage needs from folders to boxes, parts, clothing and heavy loads



EasySlide MOBILE RACK

SKB Mobile Rack is a light weight pull or push storage system installed on mobile bases with twin bearings galvanized steel wheel. SKB Mobile Rack enables compact storage while keeping the rack individually accessible. Each Mobile Rack can hold up 2500kgs load. It is suitable for Offices, Document Storage and Management Facilities, Legal Firms, Insurance Companies and Banks, Small and Medium Warehouses; and Commercial and Industry Storage.



Advantages :

- Double Your Storage Space
- Maximum Load 2500kgs
- Light Weight Pull or Push
- Twin Bearings Galvanised Steel Wheels

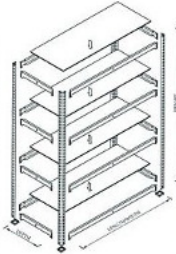
FIELDS OF APPLICATION :

- Office • Banks • Lawyer Firm
- Insurance Firm • Small Warehouses
- Commercial • Industries Storage and etc.



BOLTLESS RACKING

SKB Boltless Racking is a rigid, stable and exceptionally versatile shelving system. Its design can be customised to your needs and would be suitable for most storage goods from small components to heavy cartons. Shelves are easily adjusted at pitch of 38mm and designed with a load carry capacity ranging from 150kg to 450kg.



SKB Boltless Rack can be designed to support a mezzanine floor overhead without the need for independent structural steel supports. This offers a more 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.



2 - TIER BOLTLESS RACKING



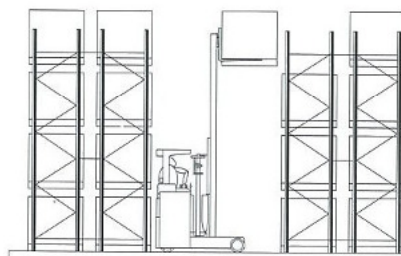
SELECTIVE PALLET RACKING

SKB 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 while utilising 40% of floor space. However, fast throughput and ease of loading and unloading explains why this type of storage solution is very popular among quick-turnover warehouses.



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 accommodate variable pallet heights
- Compatible with most commonly available handling equipment styles
- Economical shelving beams can be added for low level picking
- 100% accessibility and enables high stock rotation
- Bottom level pallets can be directly stored on floor to reduce structure cost
- Strength and rigidity prevents compression damage to goods



MULTI-TIER SHELVING SYSTEM

Multi-Tier Shelving System is an alternative design to boltless racking systems. It offers medium-duty capacity at lower prices.

With higher performance components, the design can be customised for high-rise and Multi-Tier applications.

The Multi-Tier Shelving system is strong and durable and able to cater for bay load up to 1500kg in bay width of ranging 900mm to 1500mm. It is fast and easy-to-install and cost effective. These systems are widely used across the industry and readily available anytime.



STRUCTURAL STEEL PLATFORM

Designed and constructed with structural steel profiles, SKB 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.



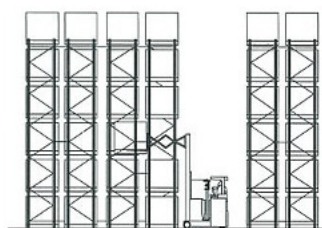
DOUBLE-DEEP PALLET RACKING

An alternative to Selective Pallet Racking, the Double-Deep Pallet Racking would require the use of a reach truck. Whilst achieving increased capacity of an added 30% more than Selective Pallet Racking, only 50% of the pallets are immediately accessible.

The Double-Deep Pallet Racking System provides 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.

Advantages

- Average stock rotation
- Average order picking i.e. 50% selectivity and slower picking rate
- Provides increased goods protection as each pallet is supported by surrounding beams
- Average floor area utilization
- Average of 60% floor space utilisation
- Upper levels can be fitted with guide rails to assist in locating pallets



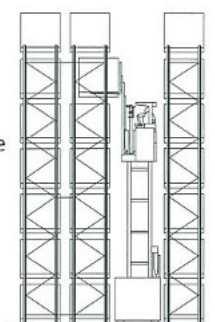
VERY NARROW AISLE PALLET RACKING

SKB Very Narrow Aisle (VNA) Pallet Racking Systems are designed with aisles approximately 1.7 metres wide only. With narrower aisles, the VNA frees up to 45% of the floor space as compared to other wider aisles system layout.

The net result is a significant increase in space utilisation. VNA enjoys the same stock rotation and accessibility as Selective Pallet Racking with use of a VNA truck.

Advantages :

- Significantly improves space utilization – more pallets in less space
- Reduced cost per square foot or cost per pallet stored
- Eliminate the need for offsite storage
- Avoid building expansions
- Improve pick rates
- Gain direct access to all pallet locations
- Decreased pallet rack damage
- Improved forklift productivity



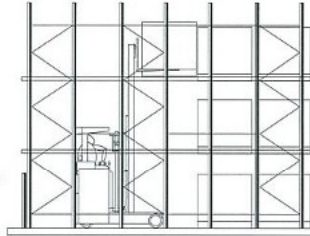
DRIVE-IN PALLET RACKING

If storage capacity is a prime requirement of your warehouse, SKB Drive-In Pallet Racking would be highly recommended.

By eliminating aisles and lanes, it increases storage density at the expense of selectivity. It adopts the LIFO method in which the first pallet into the bay, lane shall be the last one to be picked. However, if pallets are received and dispatched in batches, this would be an added advantage. Each pallet is also supported individually therefore damage of goods as a result of stacking is minimised or even eliminated.

Key Elements :

- 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 in which 20-30% selectivity is permitted with slower picking rate
- Provides increased goods protection as each pallet is supported on pallet rails
- Average of 50% floor area utilisation
- 50% nett pallet area m2 usage of overall warehouse area



CANTILEVER SYSTEM

Cantilever Racks have no vertical obstructions and hence they are designed for storing long objects. Commonly used to store metal extrusions, steel bars, tubes, pipes, furniture etc.

Our Cantilever Racks are customisable to suit the needs of the customers from heavy-duty storage in steel service centres to light duty loads for bulk and odd shape storage.

The arms and columns design are in accordance to load size and weight with suitable allowance for vertical clearance and other critical consideration factors. We will also advise you on guide rails and entrance guards, to protect both equipment and product.

SKB Cantilever 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.



PALLET FLOW RACK

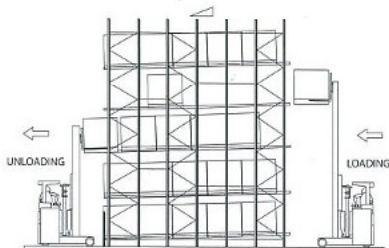
These are similar to Push Back Racks except loads are generally deposited on one side and flow gently to the other. Pallet Flow Rack is like a conveyor within a rack structure. Pallet Flow Racks can be used for both cartons or pallets and able to design to many units deep.

Most common applications would have the carton or pallet at the front to be picked first and the ones behind are reserved storage.

The Pallet Flow Rack is designed to achieve high-density and dynamic storage. They help operators to keep a safe distance from the forklifts that may be replenishing the racks at the other end.

Advantages :

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



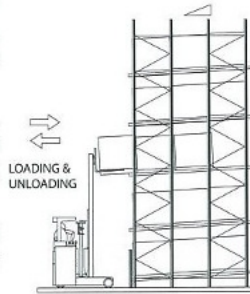
PUSH BACK PALLET RACKING

Push Back Racks offer the same storage density as Drive-In / Drive-Thru Pallet Racking systems but at the advantage of increased selectivity.

All loads are stored and retrieved from the aisle. Loads in each lane rest on a cart placed on the rail that slopes gently toward the front. When a new load is deposited into a lane, it 'pushes back' the one already at the front and subsequent ones 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. 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.



LONGSPAN SHELVING

SKB Longspan Shelving is an easy-to-assemble system which is ideal for the storage of large, heavy or odd shape items. The system is an assembly of two key components-frames and beams added on with decking bases. The purpose designed beams can go as long as 2450mm and secured into frames in seconds. All that is remaining would be to position the deck bases into place which can be either steel shelves or plywood.

The SKB Longspan Shelving can also act as an overhead mezzanine floor. Ideally bulky items can be stored at the ground floor level while the first floor level is utilized for additional shelving, working space or even open storage.



RAISED STORAGE SYSTEM

SKB Raised Storage System is a most straight forward method to add extra floor space within an existing building. You can easily double the utilisation in the same floor space without changing premises-or renting more warehouses.

Raised storage areas provide the means to create separate zones within one centralized facility, so you can allocate 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 require maximising economies of scale without compromising safety.

The SKB Raised Storage Racking are compatible with most existing warehouse storage systems.



Speed-Rack ^{DIY}

Adjustable DIY Shelves

The ideal storage solution for home, work businesses
Hassle-free assembly, quick installation and lightweight design

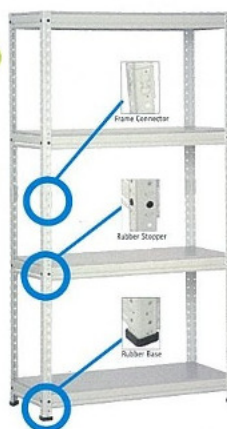
SKB Speedrack is a tool-free easy to assemble storage solution suitable for everyone. Its light weight setup comes in multiple adjustable levels with each level load able to carry up to 120kgs. Ideal for retail storage and inventory, document and file sorting for offices, store room organization for homes and restaurants and many more.

Advantages :

- Smooth Powder Coat Finishing
- Easy Installation
- No Tools Required
- Lightweight & High UDL
- Expandable and Adjustable
- Safe Round-Edge Corners
- Flexible Usage for Display & Storage
- Rubber Base for Protection and Friction



Malaysia Industries Design
Registered MY03-00630



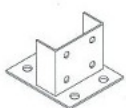
All the accessories you need to create a safe, efficient, versatile racking system, including half-pallet adapters, tunnel guards, pallet stops... and much more



SKB 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

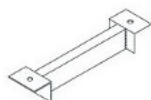
SKB Racking components & accessories are some of the most recognised parts of the system widely used for storing palletised unit loads. It consists of upright frames and horizontal beams that interlock to form the racking structure.



Base Plate



Base Plate



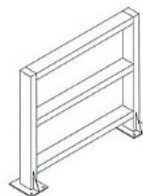
Pallet Support



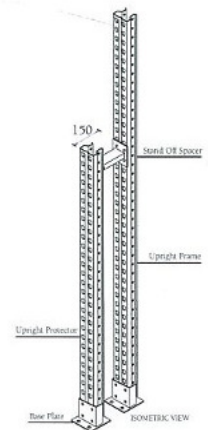
Column Protectors



Centre Support



Frame Protectors



Upright Protectors