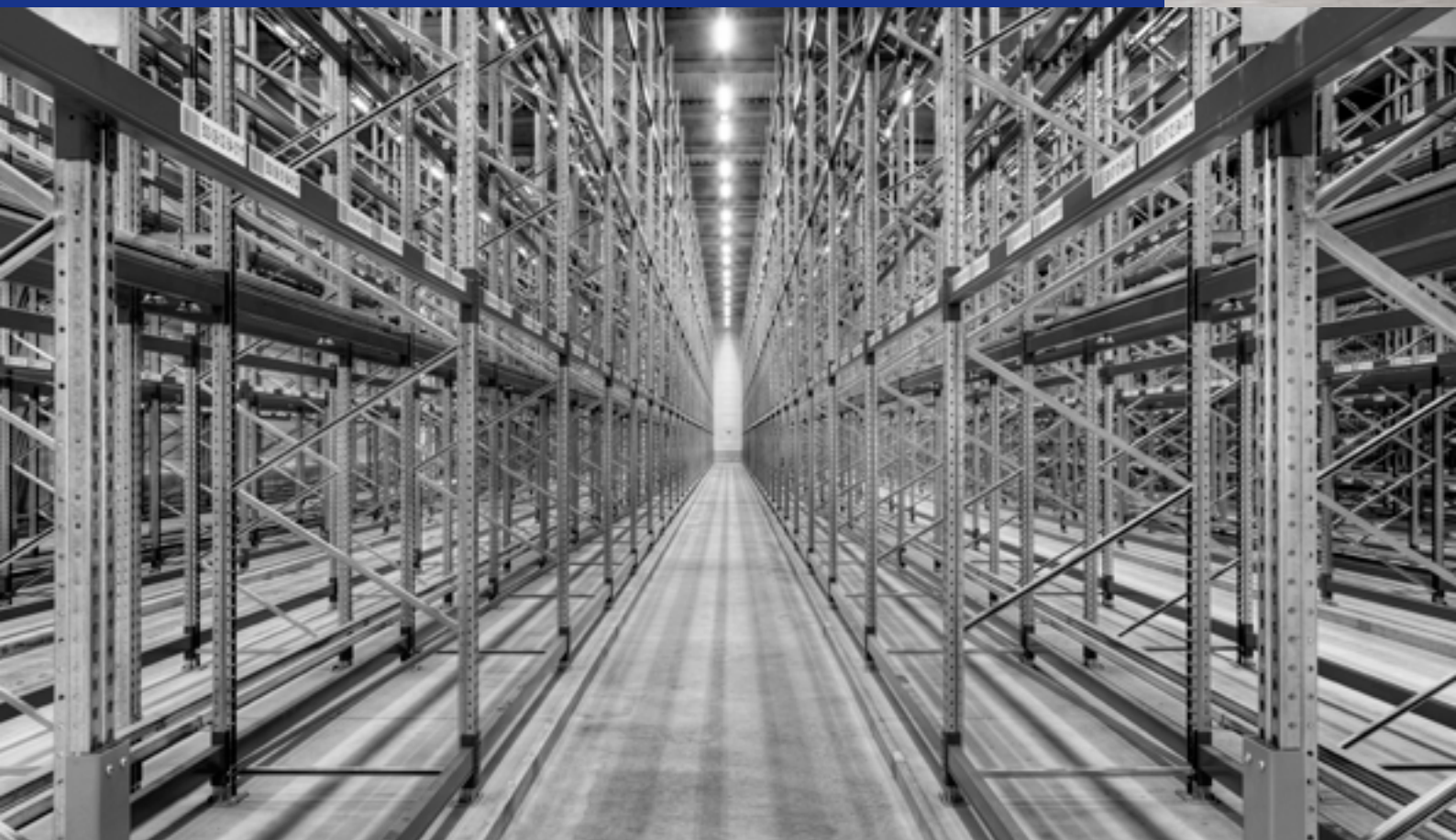


A Member of the Constructor Group

**KASTEN**

# P90 PALLET RACKING SYSTEM

The versatile solution for static and dynamic pallet storage







## **P90 Pallet Racking System**

**Taking quality and efficiency to new heights**



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# P90 Pallet Racking

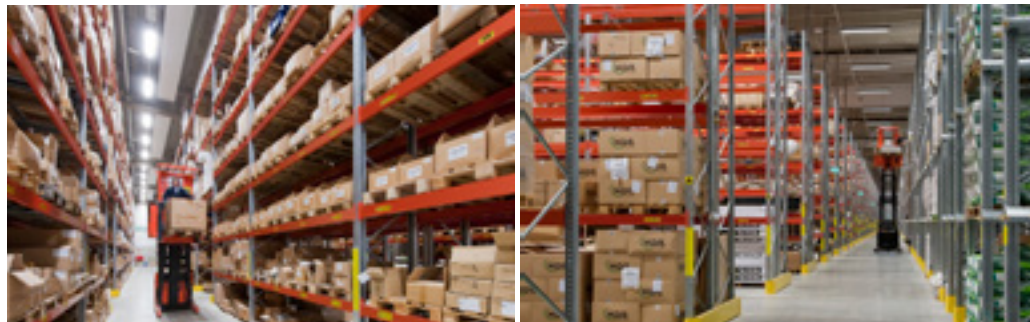
## Storage solutions the Kasten way

We have been providing storage solutions since 1950s and during this time we have gathered a vast amount of knowledge that we share every day with our customers, big or small. Our reputation as a provider of quality storage products is well earned and our team offer a comprehensive range of services to a network of customers across Europe.

Pallet racking is one of our key products and our sales experts provide easy to understand advice to navigate customers through the warehouse design process, making sure each installation is tailored to their needs.

### The Kasten team

- ✓ Dedicated technical sales
- ✓ Technical design experts
- ✓ Logistics analysts
- ✓ Efficient Project Managers
- ✓ Experienced Installation Teams
- ✓ Telesales support
- ✓ Rack Inspectors
- ✓ Service Engineers



## 21st century approach to warehouse logistics

**We can offer assistance with:**

- Optimal design of your existing or new warehouse
- Increasing your material handling efficiency
- Optimising your stock level

Constructor Logistics, provides a fresh approach to warehouse optimisation. Experienced consultants can work with our bespoke software package to determine the benefits of different warehouse solutions, complete with a 3D simulation. This will allow you to understand the advantages or

disadvantages before you make any costly investment. In addition to this it can also assess your stock profile and help you to achieve optimum stocking levels and their ideal pallet location, within your storage solution.



**Cut operational costs by 20%**



**Reduce stock level by up to 20%**



**3D layout modelling**







# P90 Pallet Racking System

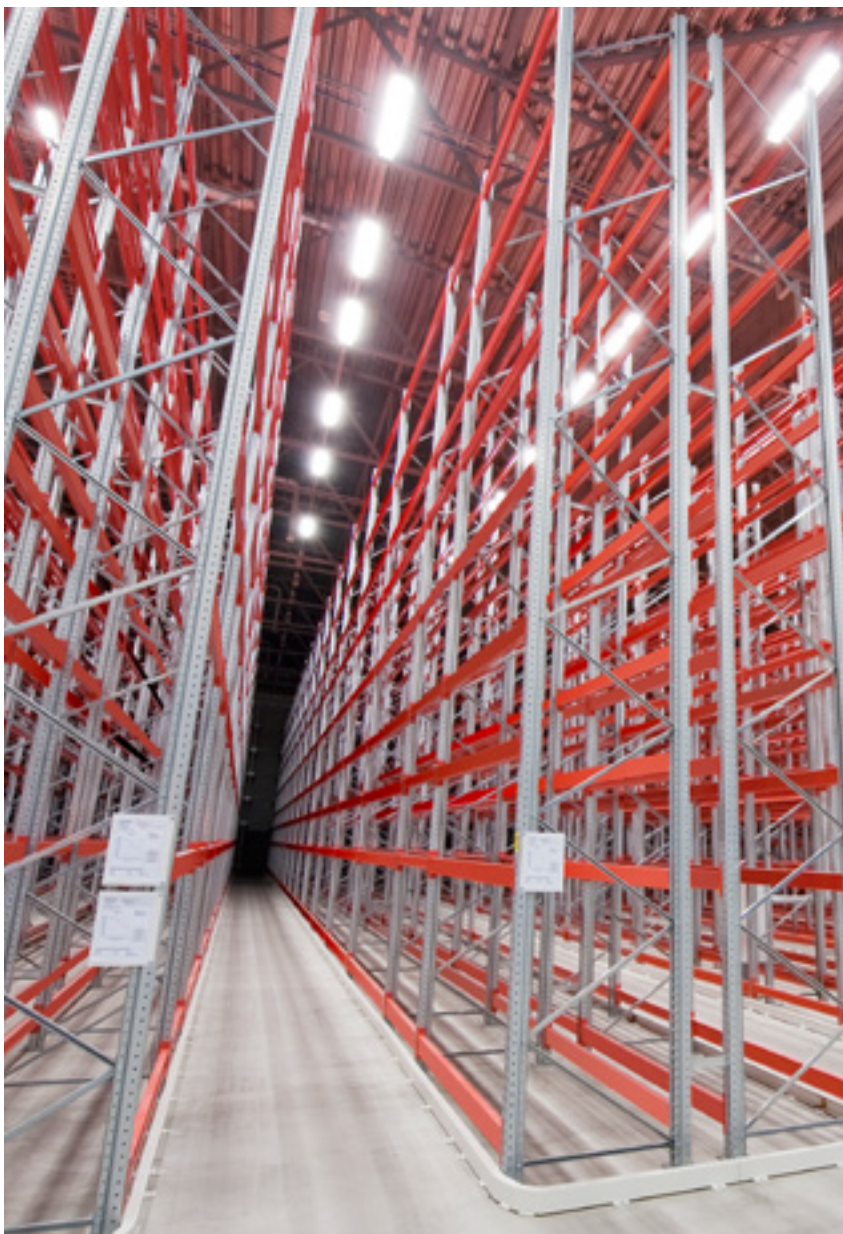
We manufacture an extensive range of components that can be configured to create your tailored solution.

Having an extensive range of products to choose from, means that we can achieve the loading capacity you require, with a pallet racking structure that suits your operation, in a cost effective way.

From classic wide aisle racking to mobile pallet racking, to pallet shuttle, our range can be configured to achieve an optimum solution.

With 16 different upright variations that can be manufactured in a variety of lengths, we can achieve structures exceeding 30 metres, with an optimized steel content.

Our standard beam range has 16 standard lengths with the option to manufacture bespoke sizes to meet individual needs.



## P90 PALLET RACKING

- 16 upright sizes in a range of lengths
- Structures can be created in excess of 30 metres high
- 16 beam lengths with 30 different section sizes available
- Galvanised steel
- Also available with a painted finish
- Suitable for all pallets types including euro, CHEP, disposable etc.
- Bespoke items can be manufactured to suit

## Quality Assured

Our products meet all relevant design codes including FEM, EN and SEMA. Our highly trained technical engineers ensure all storage solutions meet the required legislation and exceed our own internal standards.

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We hold ISO 9001

## Solutions for every situation

Storing goods on pallets is the most common method to manage warehouse stock. Pallet racking is the most effective method of storing pallets but understanding what type of structure is needed can sometimes be confusing. Here are some of the most common methods of pallet racking storage:

	High floor utilisation	High volume utilisation	Easy to adjust and adapt	Good for individual pallet access	Good for handling mixed articles
<b>Standard Aisle Pallet Racking</b>			✓	✓	✓
<b>Narrow Aisle</b>			✓	✓	✓
<b>Drive-In</b>	✓	✓			
<b>Pallet Shuttle System</b>	✓	✓			
<b>Pallet Flow</b>	✓	✓			
<b>Push-Back</b>	✓	✓			✓
<b>Mobile Pallet Racking</b>	✓	✓	✓	✓	✓

 More information see: [www.kasten-storage.com/pallet-racking](http://www.kasten-storage.com/pallet-racking)

## Wide Aisle Pallet Racking - the classic solution

Wide Aisle Pallet Racking is the most common system for storing pallets, and it is very flexible when it comes to lay out, goods type and handling equipment.

- Suitable for varying pallet sizes
- Full access to all pallets
- Meets FIFO requirements
- Suitable for different fork lift truck types
- Ideal for varying number of articles and volumes
- Suitable for pallet handling and picking at floor level



 More information see: [www.kasten-storage.com/pallet-racking](http://www.kasten-storage.com/pallet-racking)



## Narrow aisle and high bay racking -for faster order picking



Narrow aisle and high bay racking combines most of the advantages of Wide Aisle Pallet Racking, but with better floor utilization by reducing the aisle width or increasing the height.

- Suitable for varying pallet sizes
- Full access to all pallets
- Meets FIFO requirements
- For varying number of articles and volumes
- Must be operated with special Very Narrow Aisle (VNA) truck
- Pallet handling and picking on all levels with combination truck



More information see: [www.kasten-storage.com/pallet-racking](http://www.kasten-storage.com/pallet-racking)

## Drive-In Racking - compact storage solution



Drive-In Racking is the perfect solution for high density storage of large quantities of similar goods, and often used in a cold store environment. It allows a truck to enter into the racking to retrieve the pallet.

- High floor space utilization
- Suitable for large quantities of few articles
- Meets FILO requirements
- Can be operated with a reach truck and / or counterbalanced forklift
- Ideal for bulk storage



More information see: [www.kasten-storage.com/pallet-racking](http://www.kasten-storage.com/pallet-racking)

## Pallet Shuttle System - cost effective automation



Pallet Shuttle System combines the advantages of Drive-In Racking with a semi automated platform which manages the movements of pallets, offering better flexibility and faster handling.

- High floor space utilization
- Pallets automatically removed and retrieved to pick face
- Meets both FILO and FIFO requirements
- Best suited for uniform articles
- No need for specialist trucks to enter the lanes



More information see: [www.kasten-storage.com/pallet-racking](http://www.kasten-storage.com/pallet-racking)

## Pallet or Carton Flow Racking - controlled roller movement



Pallet Flow or Carton Flow is a compact storage system where pallets or cartons are transferred automatically from the entrance to the exit of the racking and offers improved internal logistics as well as high density storage.

- High density storage
- Meets FIFO requirements
- For uniform articles and pallets
- Can be operated with a reach truck and / or counterbalanced forklift
- Requires good quality pallets or cartons



More information see: [www.kasten-storage.com/pallet-racking](http://www.kasten-storage.com/pallet-racking)



## Push-back racking - gravity ensures access

Push-back racking is a high density application with up to 6 pallets in depth where pallets are picked and delivered at the front of the racking.

- High density storage
- Meets FILO requirements
- Either short-side or a long side handling of pallets.
- Loading and unloading on the same side
- Can be operated with a reach truck and / or counterbalanced forklift



More information see: [www.kasten-storage.com/pallet-racking](http://www.kasten-storage.com/pallet-racking)

## Mobile pallet racking - MOV0 - electronic aisle movement

Mobile pallet racking is a remote controlled application where pallet racking moves along rails in the floor to create a picking aisle. This provides better floor utilization and saves space.

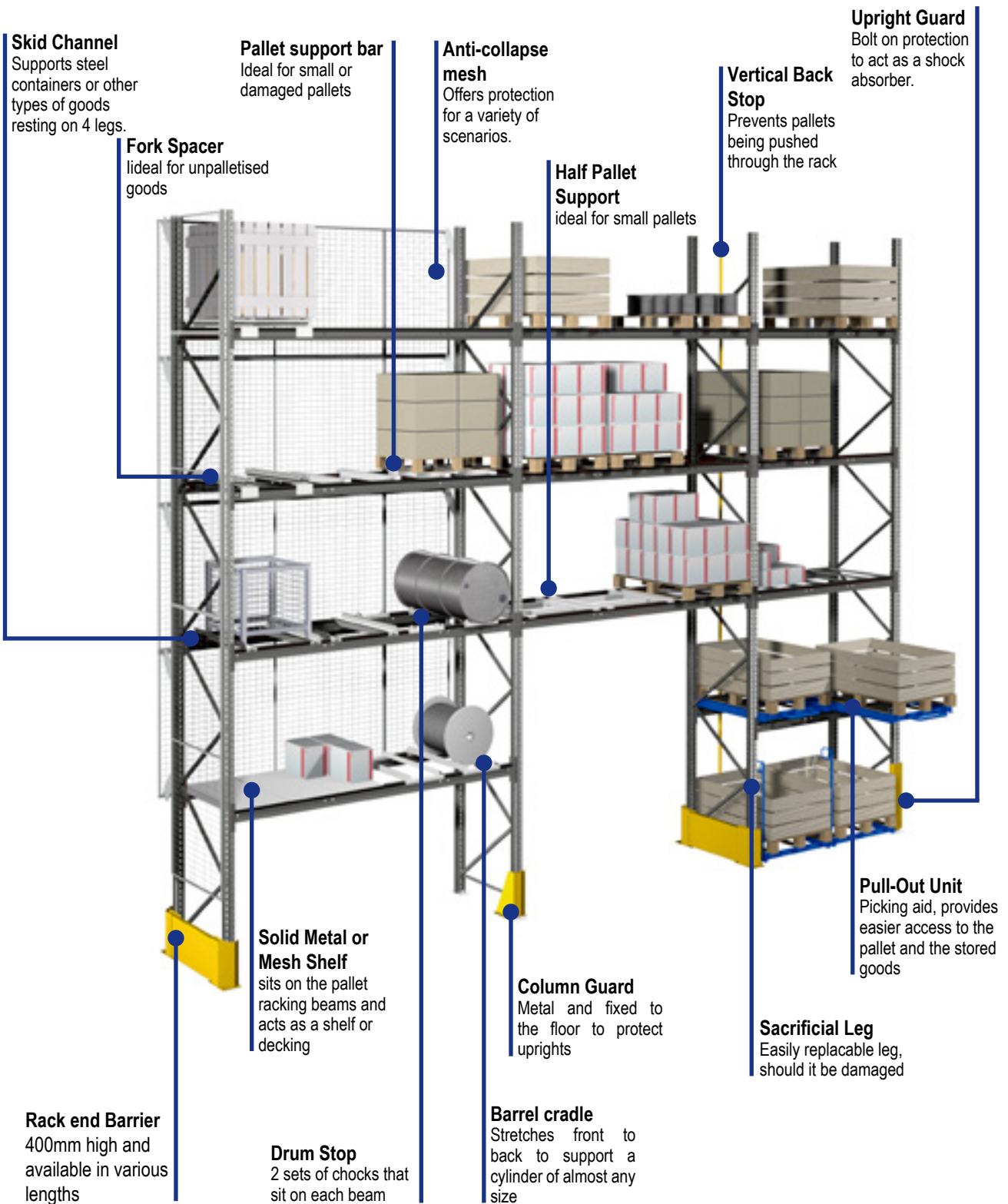
- High density storage
- Full access to all pallets
- For varying sizes of pallets
- Requires only one truck aisle
- Meets FIFO requirements
- Suitable for cold stores
- Integration with WMS



More information see: [www.kasten-storage.com/pallet-racking](http://www.kasten-storage.com/pallet-racking)

# Accessories

With the right accessories you can adapt every pallet racking system perfectly to fit your particular needs. Below is a selection of the accessories we offer.



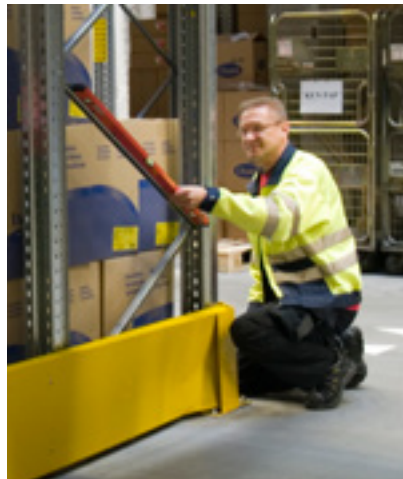


## Aftersales & Service

### -Keep your warehouse safe

The daily moving of goods is likely to cause some knocks and damage to your storage system. In the long run, these minor defects can change the capacity of shelving or pallet racking and lead to incidents that could possibly cause damage to both man and material.

Regular inspections will minimize the effect of these incidents by identifying crucial damage at an early stage. Our inspectors are highly experienced. They provide yearly inspections to keep your facilities safe and up-to-date. Every inspection is followed by a comprehensive report



with an easy to understand traffic light system and a quotation for any replacement parts.

 More information see: [www.kasten-storage.com/en/Warehouse-safety](http://www.kasten-storage.com/en/Warehouse-safety)

### The benefits of a Constructor rack inspection:

- Comprehensive professional inspection
- Certified and experienced inspectors
- No interruption to operations
- Detailed inspection report
- Prevention of damage to people or goods
- Extending life span of storage equipment
- Early risk discovery minimizes future repair costs
- Repair work can be completed quickly



## Protection Devices

Keep your warehouse safe with the correct safety accessories. See below for a small section of what is available.



**Floor mounted Column Guard**  
Protection for pallet racking uprights.



**Snap on Column Guard**  
Absorbs large impacts and attaches to a column without additional fasteners.



**Upright Guard with foam**  
Upright guard with shock absorbing foam inside.



**Frame Protectors**  
Ideal for protecting vulnerable areas from fork lift impacts.



**Safety Barrier System**  
Protection for offices, machines, conveyer systems and for route separator.



**Vertical Back Stop**  
Safety feature which prevents pallets from falling from the back of the rack.

 More information see: [www.kasten-storage.com/accessories](http://www.kasten-storage.com/accessories)

# Customer Solutions

## - P90 Pallet Racking

### LARGE LOGISTIC CENTRE

The Constructor pallet racking with almost 30,000 pallet places was mounted at DB Schenker's new logistics center. Pallet racking is over 9 m in height. The beam lengths were optimized for standard EUR-pallets and special pallets such that the warehouse squares and cubes are in effective use. Storage space is currently 25,000 square meters.



### ENERGY EFFICIENCY TO FROZEN STORAGE

HahkaWay Ltd provides a frozen logistics services to its customers. Products are stored on Mobile Pallet Racking at a constant temperature of -22° C. The management of space and pallet storage is effectively used and aisle space is minimised. Total capacity of the 9.3 meters high Mobile Racking is 16,000 pallet places with 28 meters long trolleys.

### MULTI PRODUCT SOLUTION

When Volwater & Zonen decided to extend their storage capacity for their canned and tinned food production, they opted for a shuttle system. This offered them a greater mix of products at the same high density as their existing Drive-in racking. However, the shuttle system allowed them to have deeper lanes and to change their ways of working for a faster operation. The shuttle has also help avoid damage to the racking within the lanes.



More information see:  
[www.kasten-storage.com/references](http://www.kasten-storage.com/references)

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