



## Mobile racking systems.

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The complete range.

**JUNGHEINRICH**



## Nine out of ten racking aisles are surplus to requirements.

### Gain more storage space from racking aisles.

Jungheinrich Mobile racking installations consist of pallet racking or cantilever racking mounted on a mobile base. Fitted with motors, the rail guided racking can be moved to wherever a racking aisle is required.

Through this method, nine to ten working aisles can be saved and new storage space created. They are either controlled locally from individual racks or by remote control. Safety photo-electric cells at both racking aisles activate an emergency stop as soon as an obstacle is met.

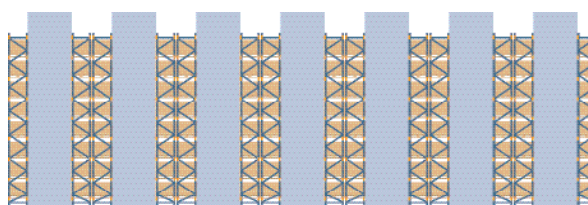
The racking installations are supplied and assembled according to current directives for warehouse installations and appliances (BGR 234). The installations conform with the current quality and testing directives for warehousing and operational equipment (RAL RG 614). UVV, DIN, VDE and CE directives are also met.



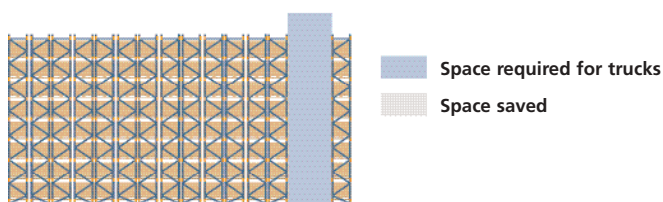
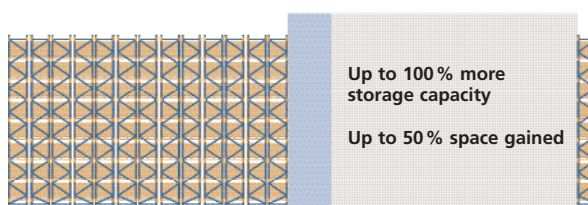
### Advantages

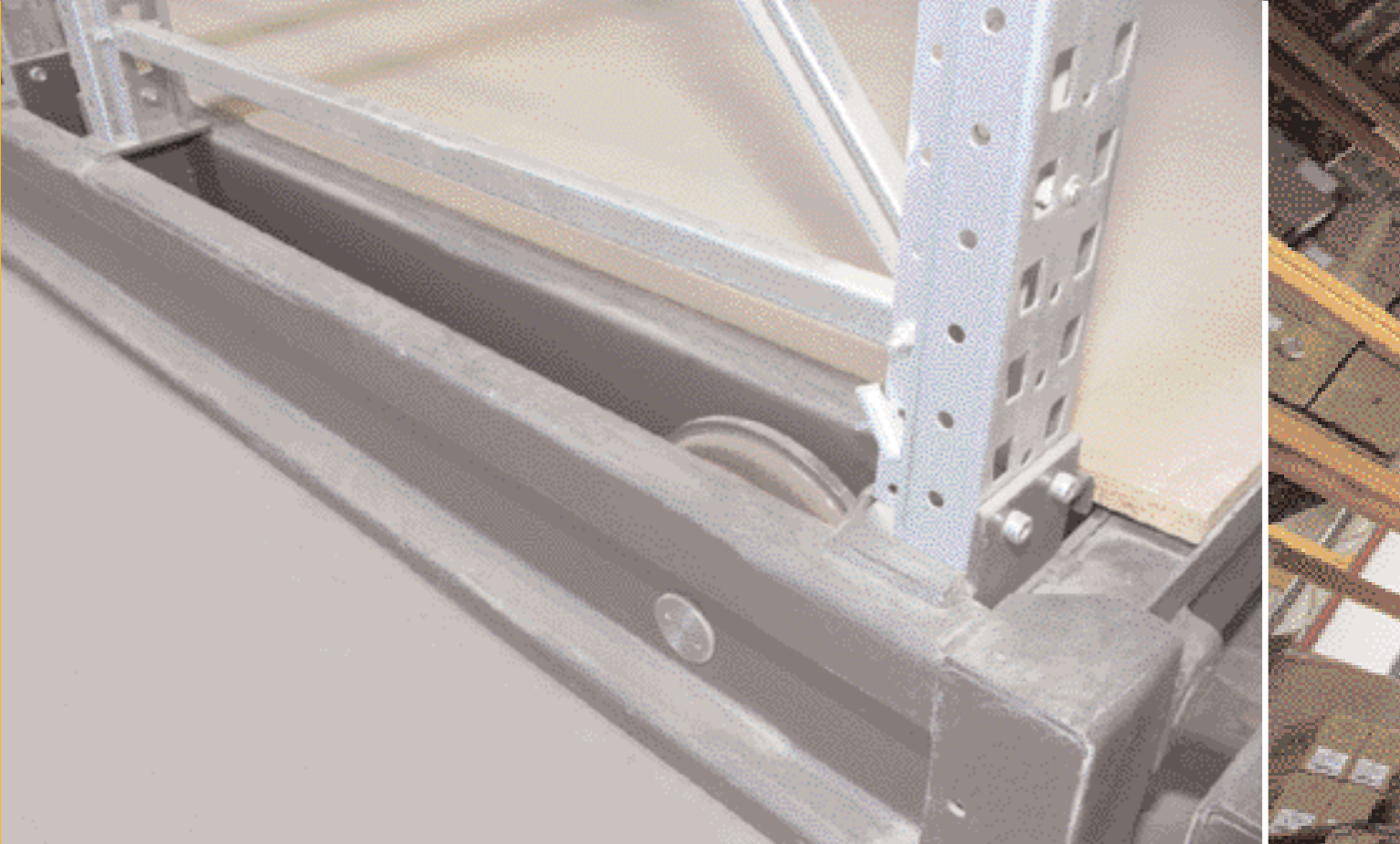
- Up to 90 % fewer racking aisles
- Improved space utilisation
- Goods stored can be locked
- Can be automated
- First In-First Out can be achieved
- Operational up to  $-30^{\circ}\text{C}$
- Directly accessible storage positions
- Saving in energy, operating and cleaning costs
- Shorter travel distances
- A space saving solution that is tailored to your individual needs
- Installation in new and existing buildings
- Modular installation concept that can be extended at any time

Conventional rack storage system



Mobile rack storage system





## The basis: mobile carriages.

From racking to mobile racking.



### Motor

- 3-phase AC technology
- 4800 mm/min travel speed
- Cold store design (optional)

### Drive

- Number of motors dependent on requirement
- Powered via drive shaft on one side of the racking
- Maintenance-free, self-lubricating bearings

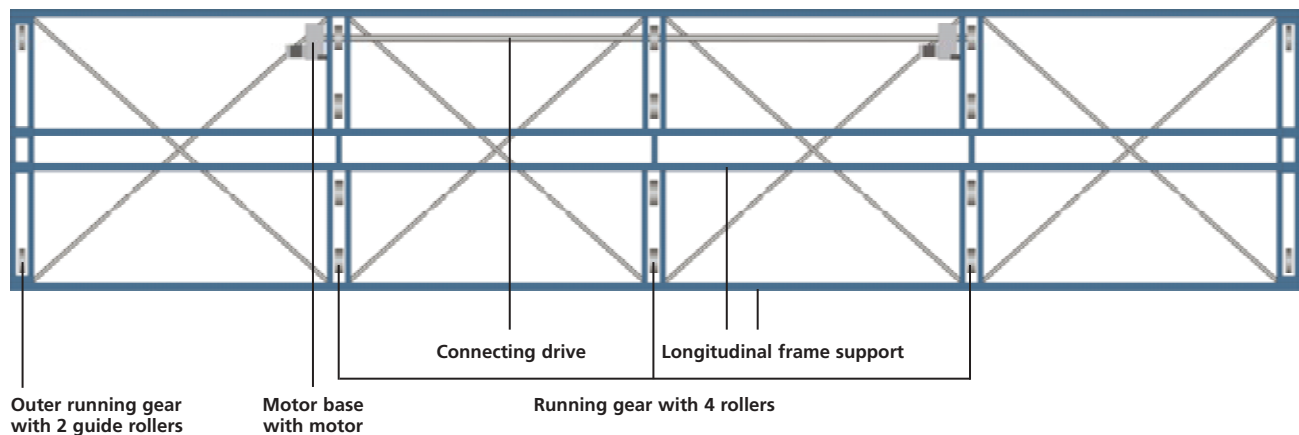


Left picture: Mobile base with view of guide wheel  
 Right picture: Flexible power cable

### Chassis

- Wheel base made of sheet metal profiles
- Outer/inner carriers made of hot rolled profiles
- Purpose built motors and wheel sets for each application
- Optimum adjustment and stiffening through diagonal members
- 7720 to 47,900 kg capacity

Mobile bases with motor



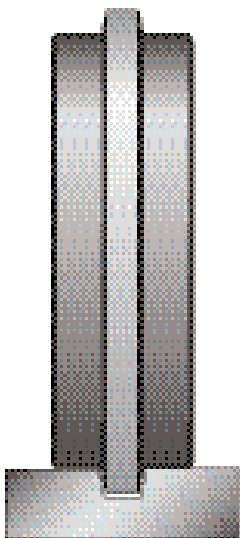


## Rail guidance for existing warehouses.

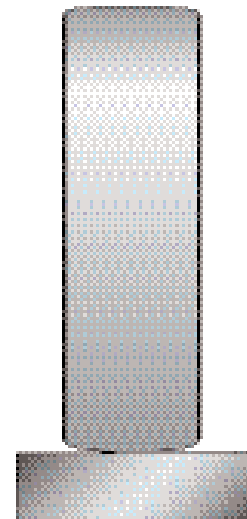
### Steel rails concrete.

#### Flat rolled steel rails

- Maximum safety through guide rails and running rails
- 100 x 30 mm dimension
- Minimum installation height 40 mm
- Underpouring with shrink-free mortar
- Levelling with most up-to-date levelling technology
- Tolerance checks after laying
- After levelling, the floor is screeded and made flush over the run and guide rail



Guide wheel



Running wheel

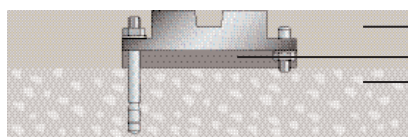


**Standard rail for laying over concrete**

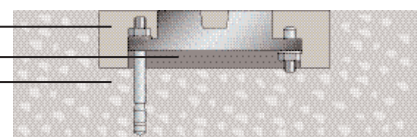
Laying on concrete is the "traditional" variant if concrete and mortar are used.

**Standard rail for laying over concrete with channels**

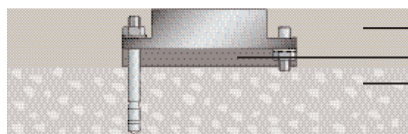
The capacity of concrete is reduced by routing the channels.



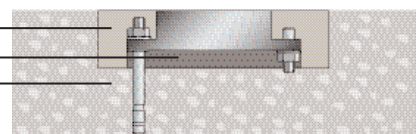
Guide rail on concrete base



Guide rail on concrete base with channels



Running rail on concrete base



Running rail on concrete base with channels

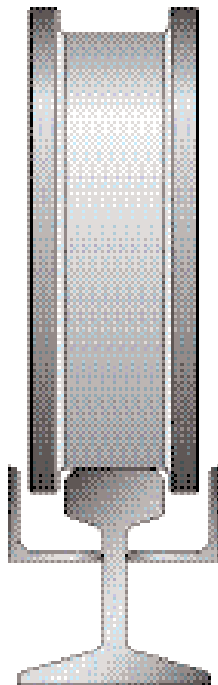
Screeding  
Shrink free mortar  
Concrete

Screeding  
Shrink free mortar  
Concrete



## Rail guidance for a new warehouse.

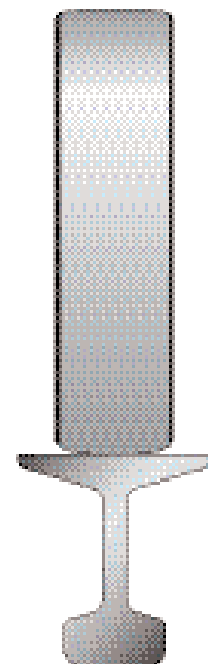
### Crane rails on steel channel.



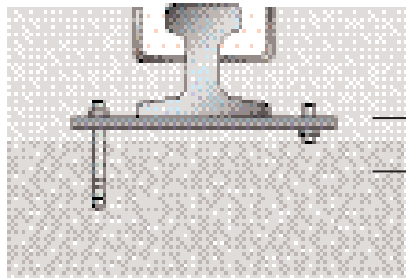
Guide wheel

#### Crane rails

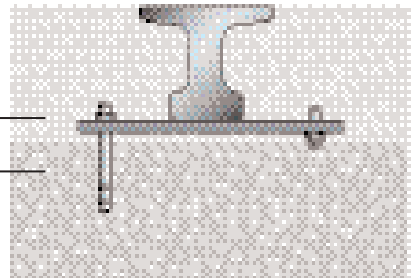
- Maximum safety through guide rails and running rails
- Can be installed with or without spacer dependent on installation height
- Pouring and levelling of final flooring concrete screed
- Levelling with most up to date levelling techniques
- Tolerance checks after laying



Running wheel

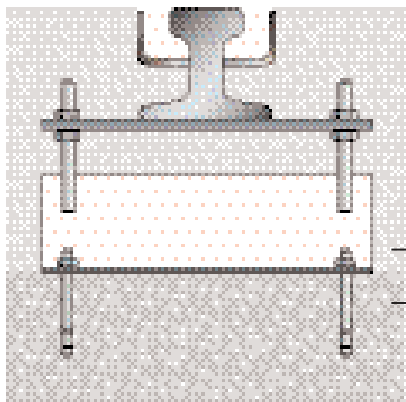


Running rail without spacer

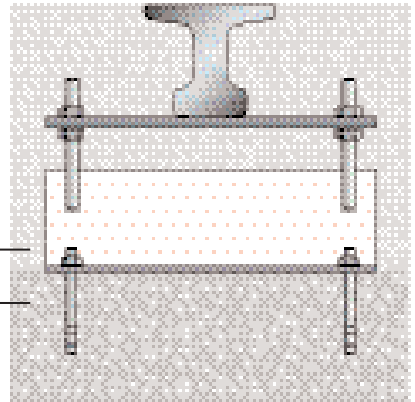


Guide rail without spacer

Screed  
Concrete base  
Installation height 113 mm (+/- 10 mm)

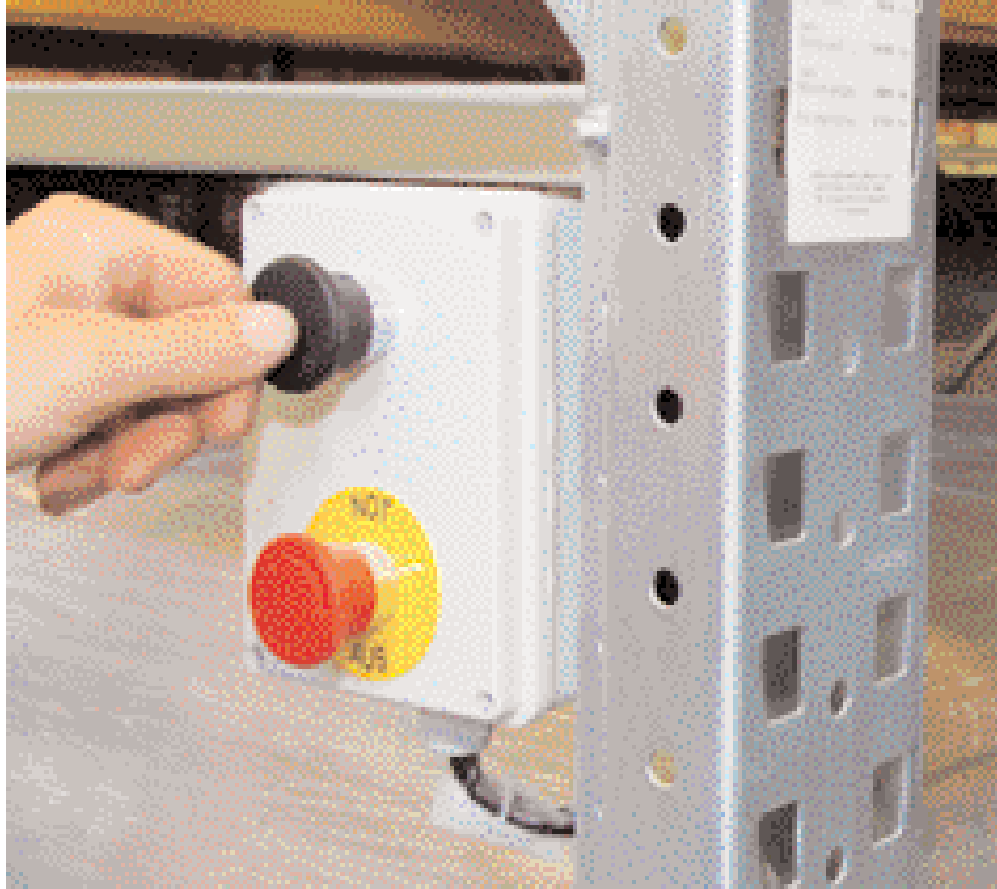


Guide rail with spacer



Running rail with spacer

Screed  
Concrete base  
Installation height 150 to 250 mm



## SPS control: so that mobile racking stays on the right track.

Safety and productivity at the press of a button.

All movements are continuously controlled by self-monitoring photo electric cells. Subsequent adjustments/expansions are possible at any time.

### Control systems

- Radio control
- Fault diagnosis via modem
- Interface for Warehouse Management System (WMS)

### Safety

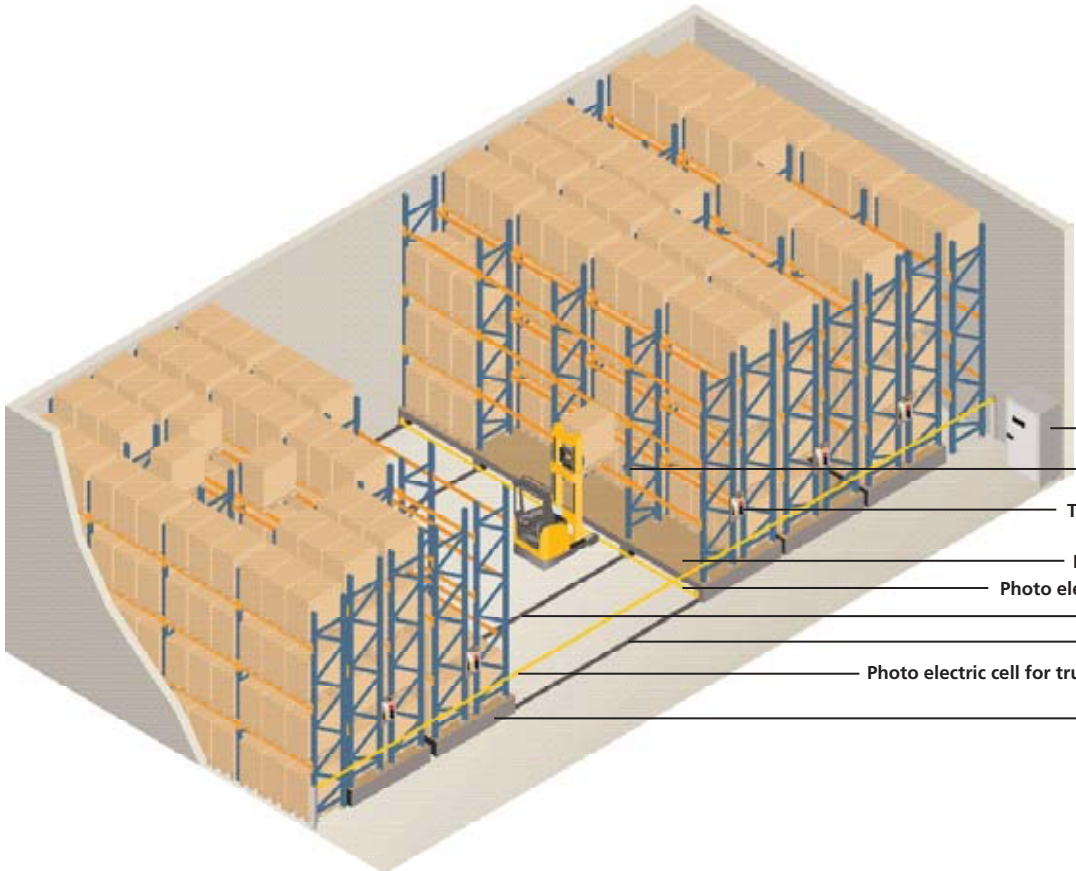
- Foot area protection via photo electric cell (self-monitoring)
- Photo electric cell for truck recognition and for personnel protection (self-monitoring)
- Travelling time monitoring
- Warning signal before collision with installation
- Smooth run, smooth stop
- Emergency travel
- Every moving carriage fitted with emergency stop
- Installation switch off through contactless inductive switch
- Release button
- CE certified

### Functionality

- Order picking position
- Manual control
- Aisle/room lighting
- Fire switch
- Control and monitoring by central control cabinet
- Push button for left/right run as well as emergency stop switch at front of racking
- Interfaces



Picture left: Travel/emergency button  
 Picture right: Release button



Mobile pallet racking  
 with electric motors

- Control cabinet
- Release button
- Travel/emergency button
- Push-through protection
- Photo electric cell on running rail
- Running rail
- Guide rail
- Photo electric cell for truck and personnel traffic
- Mobile base



ISO 9001, ISO 14001  
Certification of Quality and  
Environment Management



Jungheinrich trucks conform to the  
European Safety Requirements.

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