



## **MOBILE RACKS FOR STORING WHEELS AND TYRES**

Highest storage volumes and safe handling

# Maximum space utilisation and efficiency gains

**Optimal storage of wheels and tyres means efficient use of warehouse capacity and handling according to good professional practice.**

SSI SCHAEFER mobile racks for wheels and tyres comprise typical tyre or cantilever racking that is fitted to carriages and moved in parallel with the aid of a motorised drive. The rack travels on rails and only the required aisle is opened. The aisle utilisation provides a huge cost savings because the mobile rack solution allows you to reduce the amount of space required in the workshop or the warehouse. Expensive extensions to the workshop or warehouse are kept to a minimum, travel times reduced and your internal workflows significantly improved, which is extremely important especially during busy periods.

## Operation

The mobile racks are operated either from a control console on the mobile carriage or, as an option, using a wireless remote control.

Storage and retrieval is carried out following a one-off selection of the required drive command function, after which the carriage moves automatically in the desired direction.

The removal or return of the tyres takes place quickly and safely in the opened aisle.

Up to 18,000 wheels per system can be stored or retrieved quickly and efficiently in the smallest amount of space.

Static rack

Mobile rack



## Typical use cases:

Wheel and  
tyre hotels

Workshops

Garages

Tyre dealers

## System benefits

### Flexible

- ▶ All wheel and tyre sizes up to a diameter of 800 mm can be stored
- ▶ Storage of wheels with spikes possible

### Ergonomic

- ▶ Compliance with health and safety regulations is ensured, as the fitted wheels, which can be very heavy, do not have to be lifted by one person

### Safe

- ▶ As the carriages are forklift-accessible, the stacks of wheels can be stored and retrieved quickly and safely at ground level using a forklift truck. Safety facilities conform to EN 15095

### Protects the goods

- ▶ The wheels and tyres are stored flat or upright in accordance with good professional practice

### Economic

- ▶ Mobile racks provide almost twice as much storage capacity as a static solution in the same space
- ▶ Operating and premises costs are reduced as a result of the outstanding space utilisation of the system

### Efficient

- ▶ Quick and efficient storage and retrieval

### Standardized

- ▶ Standard dimensions for field widths and depths simplify the planning and installation of the system



## Application areas

Good professional practice dictates that wheels should be stored flat and tyres upright. SSI SCHAEFER therefore offers a choice of two flexible systems.

### Mobile racks for tyres

**In this storage scenario, the tyres are stored upright next to each other on crossbeams.**

This provides easy access to the tyres so they can be rotated regularly as recommended by the manufacturers.



### Mobile racks for wheels

**The wheels are stacked flat in groups of 4 on cantilever arms.**

There is space for up to 8 stacks in each field.

As the stacks are forklift-accessible, the wheels can be stored and retrieved ergonomically, quickly and safely at ground level using a conventional forklift truck.



## Intelligent system control

The SSI SCHAEFER mobile rack for wheels and tyres is equipped with a modern programmable logic controller (PLC). Among the monitoring functions this performs are the securing of the global and local installation levels using access and ground-level photoelectric barriers respectively; these ensure safe operation of the system. The link to a higher-level warehouse management system is provided by an interface.

Numerous control options, for example:

Wireless remote control

Advanced movement  
warning

Automatic forklift enable

Distance control for  
fire fighting

Picker or fan position

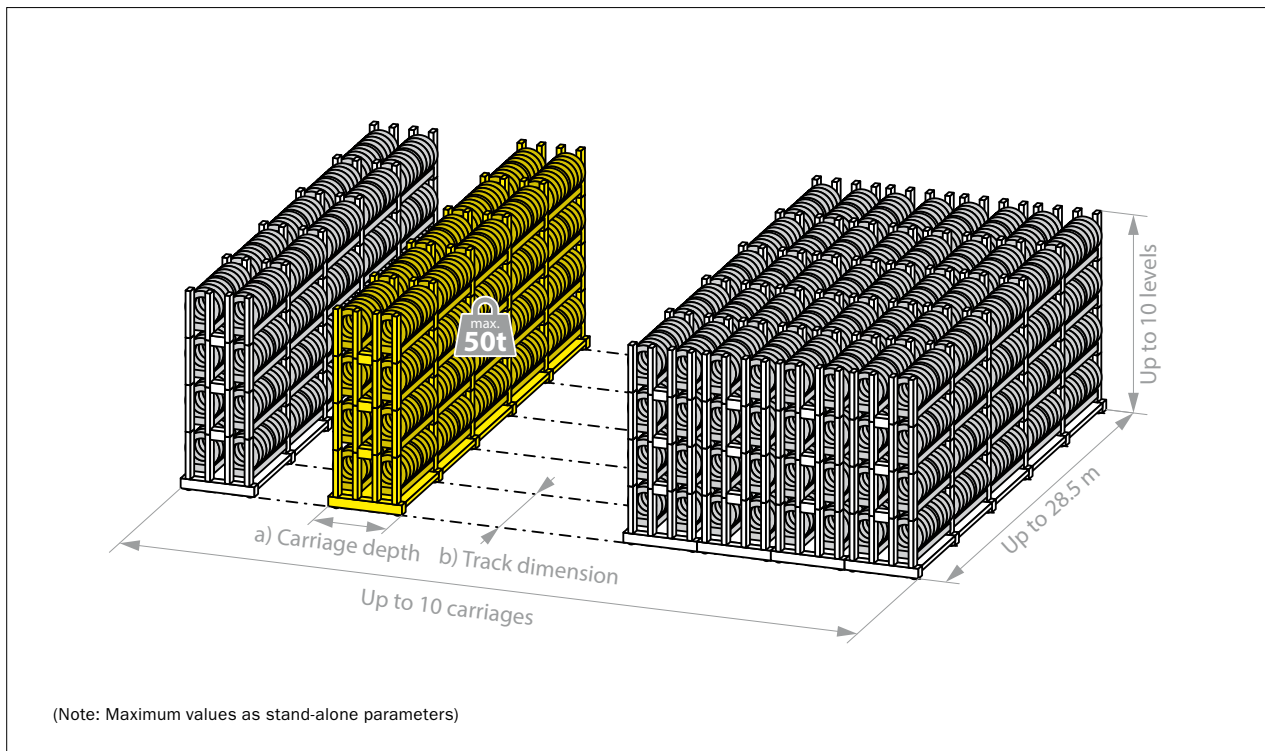
Automatic aisle lighting

... complement a system concept that is designed to provide the highest levels of user friendliness and safety.



## Mobile racks for tyres: Facts & Figures

Each field has a load capacity of 4,500 kg, so efficient use can be made of the height of existing as well as new halls. Each system can store up to 18,000 wheels on ten carriages.



**Mobile racks for tyres** / Figures in mm

a) Carriage depth	Max. tyre diameter	b) Track dimension	Clear field length (crossbeams)
1,420	690	1,025	994
1,520	740	1,313	1,282
1,620	790	1,539	1,508
		2,050	2,019

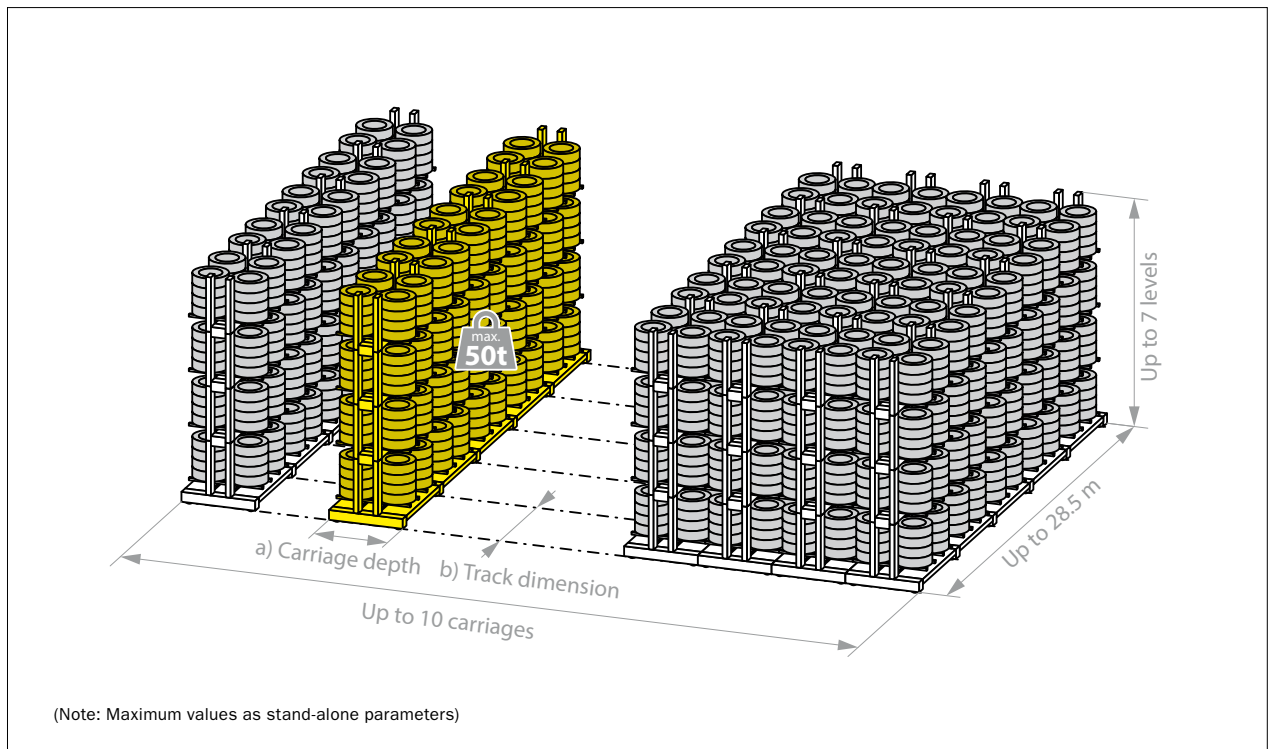
The height of the crossbeams can be adjusted in steps of 50 mm.

The carriage depths are chosen to provide maximum space utilisation for the customer. The flexibility of this approach even allows all three carriage depths to be combined as required.

## Mobile racks for wheels: Facts & Figures

**In this version of the carriage, the emphasis has been placed on a high level of standardisation and maximum flexibility.**

The new cantilever mobile rack for wheels is available in two standard sizes according to the width and depth of the fields. It therefore makes planning very straightforward and can be extended if required.



### Mobile racks for wheels / Figures in mm

a) Carriage depth	b) Track dimension		Maximum weight per wheel stack (on cantilever arm)
	2,150	2,850	
Number of tyres x max. diameter			
1,520	6 x 650	8 x 650	100 kg
1,720	6 x 650	8 x 650	100 kg
1,720	4 x 800	6 x 800	120 kg

The cantilever arm can be adjusted in steps of 50 mm vertically and as required horizontally.

