



AHCON[®]
WHEEL SERVICE EQUIPMENT

SMART AND PRACTICAL
TYRE STORAGE



TYRE STORAGE

For more than 15 years, FLEX1ONE has worked to provide a good tyre storage framework for customers in both Denmark and Europe.

This has given us plenty of knowhow on how our customers may best make use of any available storage capacity and create the optimum type of tyre storage. When looking for your new tyre storage solution, let yourself be inspired by our solutions and feel free to involve us in the process.

ONE SYSTEM WITH PLENTY OF OPTIONS

We have developed our own series of tyre racks under the brand name F1. The system consists of beams and frames of various dimensions which may be combined to provide exactly the solutions required by our customers.

SINGLE RACKS

In a multitude of different dimensions – adapted to the room in question

TWIN RACKS

The single racks are assembled in pairs and placed back to back. May be built to many dimensions

MOBILE RACKS

The racks are mounted on mobile bases which may be pushed together closely

LEVEL RACKS

The racks are assembled in 2 or more tiers divided by grating floors

MEZZANINE SOLUTIONS

An extra storey is built into the room, on which tyre racks are installed

HEAVY DUTY TYRE STORAGE

Systems for the storage of XL tyres and wheels

FACTS AND FEATURES

- An extremely flexible system which may be adapted to just about all types of storage facilities
- Streamlined colour combination of RAL 7016 and RAL 7042
- Easy to assemble
- Tested and approved for safety in Denmark



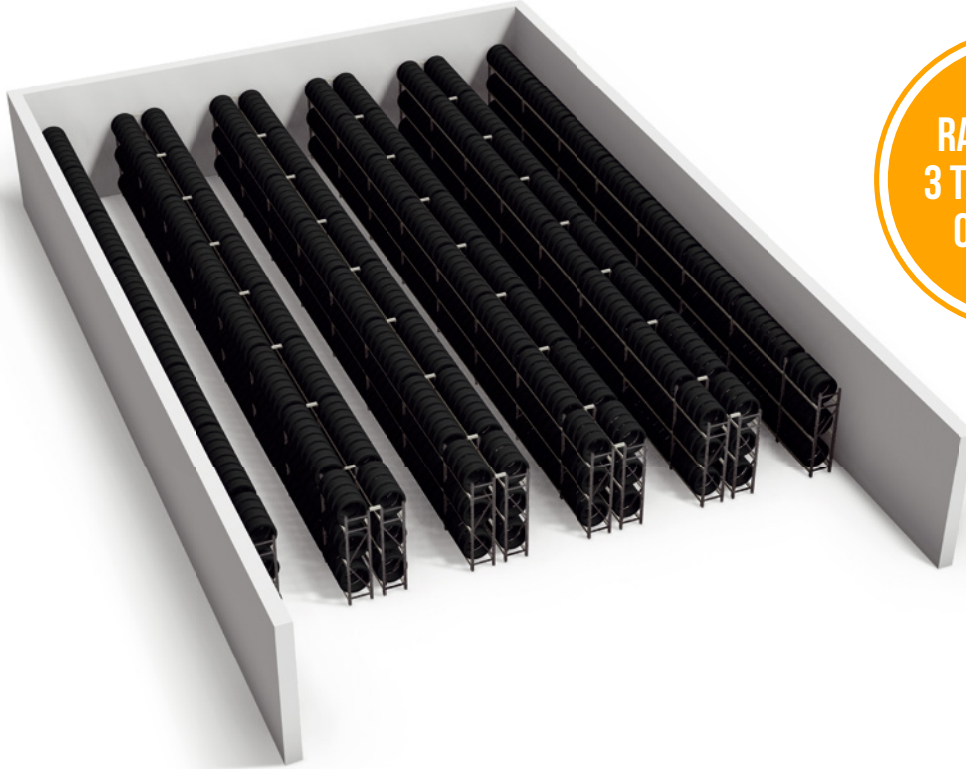
SINGLE RACKS - LOW

STORAGE OF CUSTOMER WHEELS IN 3 LAYERS

REFERENCE: At the premises of this customer, during the exchange of summer and winter tyres – and vice versa, customer wheels are stored in racks with in 3 layers. The wheels are loaded and unloaded from the shelves using a Hovmand W-Lift to avoid lifting above shoulder level.

SINGLE RACKS - LOW

Traditional tyre storage at floor level



**RACKS WITH
3 TO 4 LAYERS
OF BEAMS**

FACTS AND FEATURES

- Built with 3 to 4 layers of beams
- Possible to extend with extra tyre racks
- May be placed in various positions in the workshop
- Does not require extra room height
- Available as complete starter and extension kits

Contact us for guidance on the optimum design of your tyre storage facility!



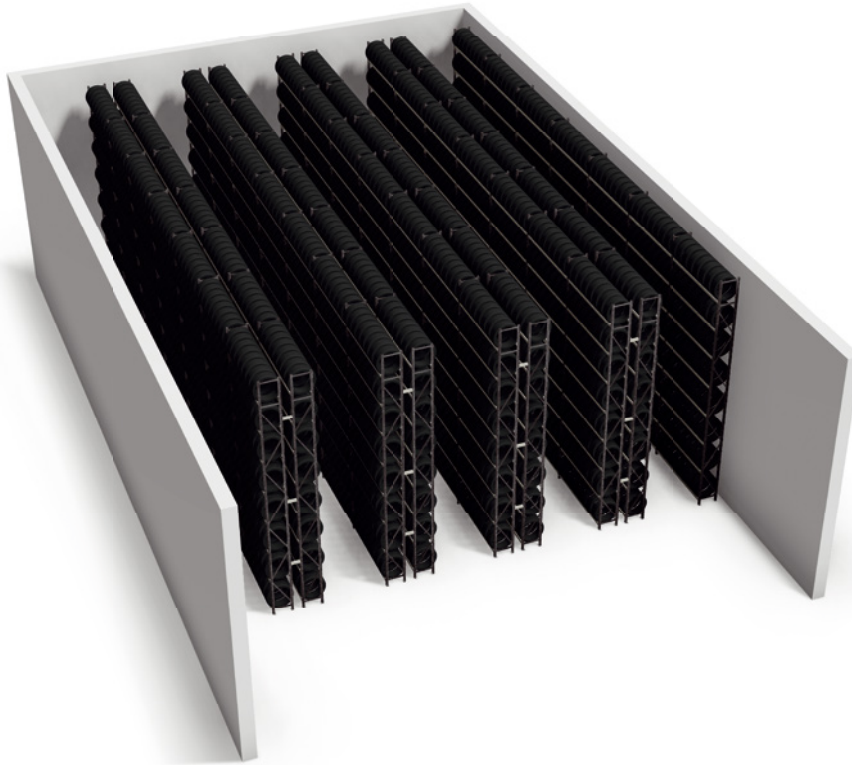
SINGLE RACKS - HIGH

STORAGE OF CUSTOMER WHEELS IN HIGH TYRE RACKS

REFERENCE: In connection with the new workshop acquired by this customer, a high-bay storage system for storing customer wheels was established. In this workshop, high-bay tyre racks with up to 8 layers of beams are installed. The wheels are handled using a Wheel Trolley Tower Lift.

SINGLE RACKS - HIGH

Make use of the floor-to-ceiling height of the workshop for tyre racks



**TYRE RACKS
WITH UP TO
8 LAYERS
OF BEAMS**

FACTS AND FEATURES

- Optimum use of the available space in storage facilities with considerable floor-to-ceiling height
- Tyre racks may be built to a height of 6.0 metres
- The height of the racks makes it possible to have 8 layers of beams
- May be combined with the Wheel Trolley Tower Lift for loading and unloading from racks
- Create systematic customer wheel storage – and turn it into a business

Contact us for guidance on the optimum design of your tyre storage facility!



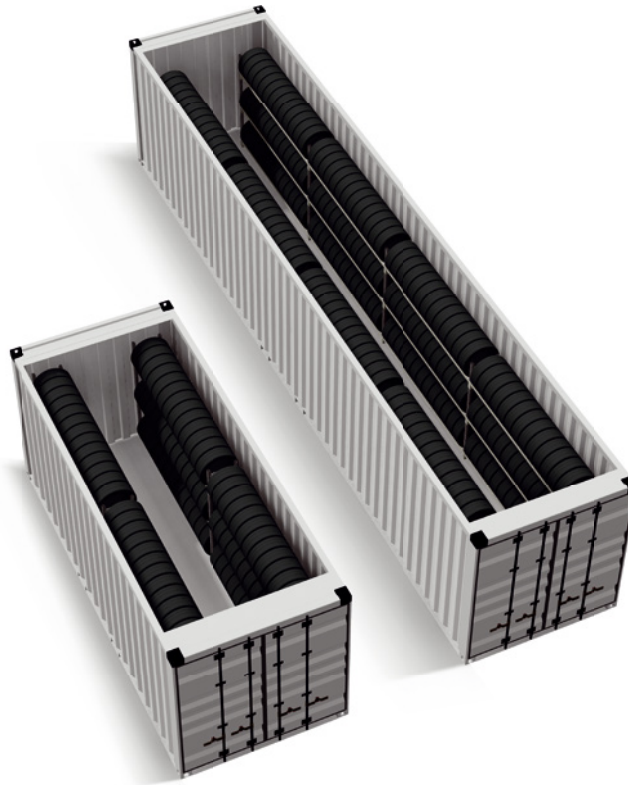
SINGLE RACKS IN CONTAINERS

STORAGE OF CUSTOMER WHEELS IN CONTAINERS

REFERENCE: Outside this customer's workshop, four 40 feet containers are positioned side by side and low tyre racks have been installed in these. The customer has established a ramp in front of the containers to ensure easy transportation in and out of the containers.

SINGLE RACKS IN CONTAINERS

Use containers to create extra square footage for tyre storage



**COST-EFFICIENT
SOLUTION ON
LACK OF ROOM**

**EASY TO
INSTALL**

FACTS AND FEATURES

- Cost-efficient solution on lack of room
- Smart solution for temporary peak-load periods
- Several containers may be placed side by side
- Easy to install
- Available as complete container solutions

Contact us for guidance on the optimum design of your tyre storage facility!



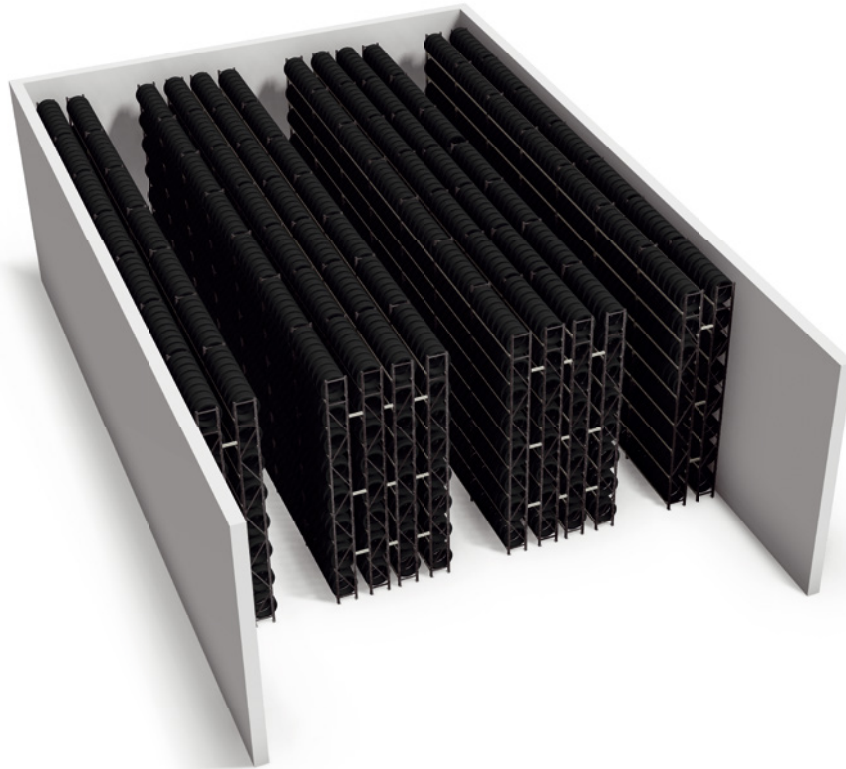
TWIN RACKS - HIGH

STORAGE OF CUSTOMER WHEELS IN DOUBLE HIGH RACKS

REFERENCE: In this customer's newly-established storage and workshop facilities, priority was placed on optimising the capacity for storage of customer wheels. The solution was TWIN RACKS built to a height of 6.0 metres. The wheels are handled using a Wheel Trolley Tower Lift.

TWIN RACKS - HIGH

Position the tyre racks back to back, build upwards and achieve maximum capacity



OPTIMUM USE
OF STORAGE
ROOM CAPACITY

FACTS AND FEATURES

- Optimum use of storage room capacity
- Double-racks reduces square footage needed for walkways
- Tyre racks may be built to a height of 6.0 metres
- The height of the racks makes it possible to have eight pair of beams
- May be combined with a Wheel Trolley Tower Lift for the loading and unloading from racks

Contact us for guidance on the optimum design of your tyre storage facility!



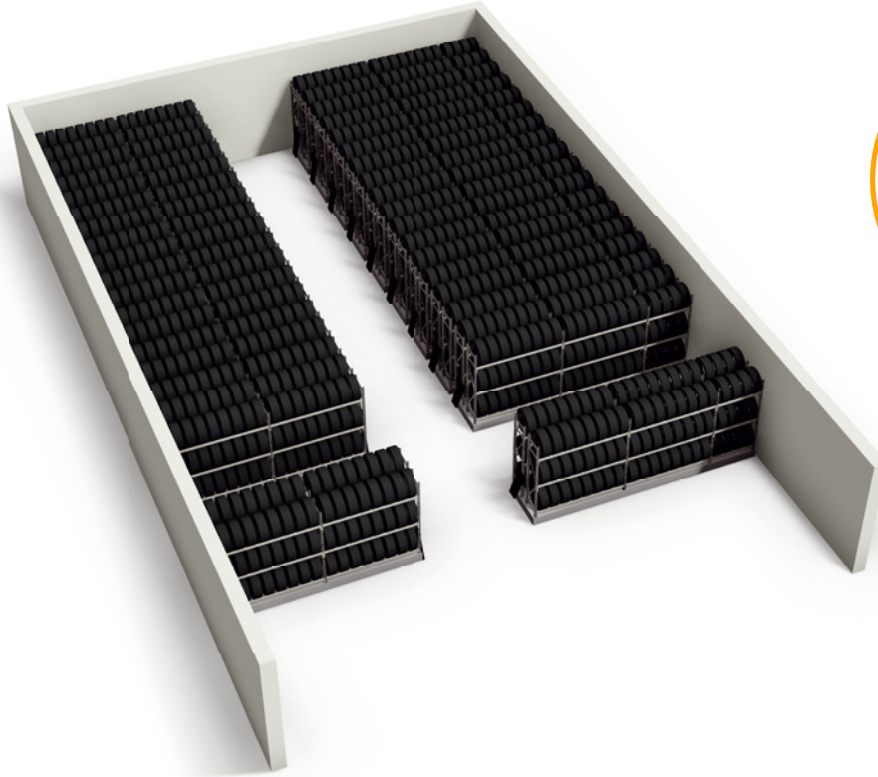
MOBILE RACKS

STORAGE OF CUSTOMER WHEELS IN MOBILE TYRE RACKS

REFERENCE: Customer wheel storage has been established in the newly-built premises adjacent to the workshop at this customer. To avoid using footage on walkways, the wheels are stored in mobile tyre racks with 3 pairs of beams. The wheels are handled using a Hovmand W-Lift.

MOBILE RACKS

Install the tyre racks on mobile bases and reduce the need for walkways



MINIMAL
NEED FOR
WALKWAYS

FACTS AND FEATURES

- Mobile bases may be used for both low and high tyre racks
- Minimal need for walkways
- Easy to push several racks at the same time
- Use different types of lifts for picking wheels – cf. pages 25-29
- Extremely flexible and compact system

Contact us for guidance on the optimum design of your tyre storage facility!



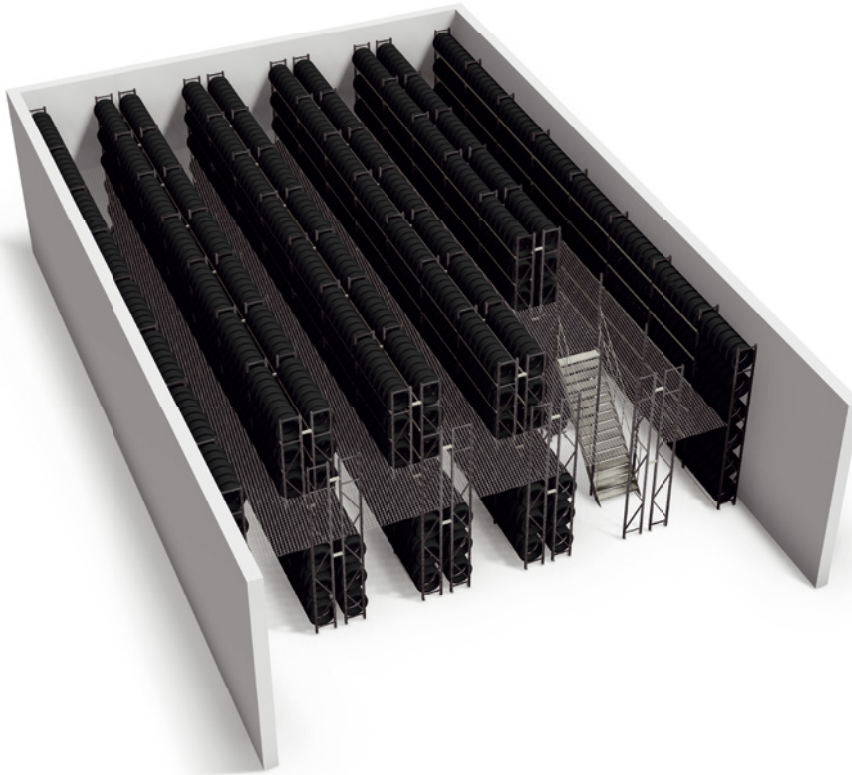
LEVEL RACKS

TYRE RACKS IN SEVERAL STOREYS

Facilities with considerable floor-to-ceiling height may be furnished with tyres racks in several storeys. This may be done by installing a grating floor as storey separator. Tyres and wheels may be transported to the top storey by means of a conveyor belt or a lift system.

LEVEL RACKS

Create an extra storey with tyre racks by building in a floor between the racks



MAKE OPTIMUM
USE OF THE
FLOOR-TO-CEILING
HEIGHT

FACTS AND FEATURES

- Possible to make optimum use of the floor-to-ceiling height of the room
- An extra storey is created by installing a grating floor or light wooden boards
- Move wheels to the upper storey with a lift or a conveyor belt
- Access the top storey by a staircase
- The wheels may be handled by a small wheel lift, such as a Hovmand W-Lift

Contact us for guidance on the optimum design of your tyre storage facility!



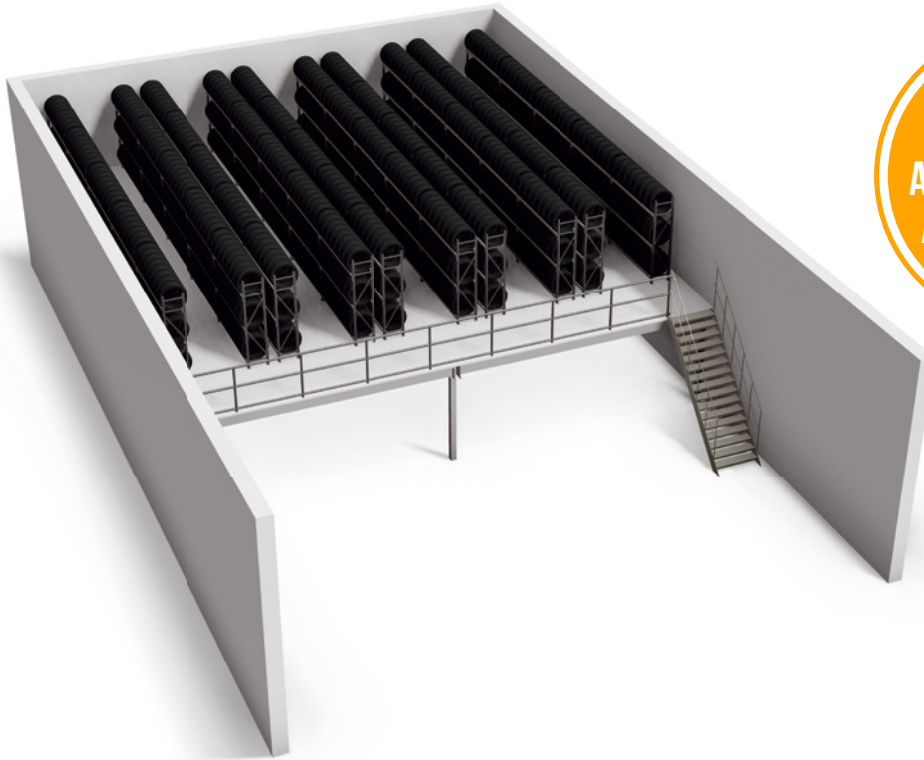
MEZZANINE SOLUTIONS

TYRE RACKS MOUNTED ON MEZZANINE

REFERENCE: Due to a need for storing many new tyres, this customer established a mezzanine in the workshop which provided tyre storage both on and below the mezzanine. Tyres are moved using a conveyor belt. The mezzanine makes full use of the floor-to-ceiling height of the room.

MEZZANINE SOLUTIONS

An extra storey is constructed in the room, on which tyre racks are installed



**CHEAP
ALTERNATIVE TO
AN EXTENSION**

FACTS AND FEATURES

- Use the floor-to-ceiling height to create more square footage
- A mezzanine adds an extra storey to an existing room
- Tyre racks may be installed both below and on the mezzanine
- May also be used with mobile bases
- Move wheels to the first storey using a lift or a conveyor belt

Contact us for guidance on the optimum design of your tyre storage facility!



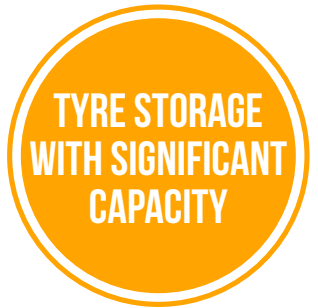
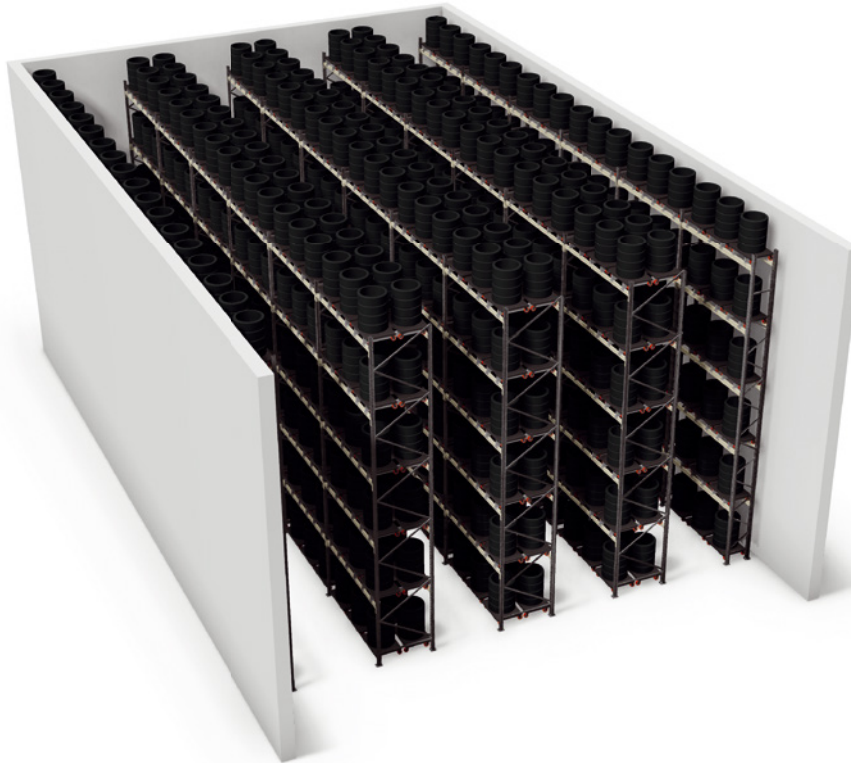
TYRE HOTEL

TYRE HOTEL WITH EXTREME CAPACITY

REFERENCE: A tyre hotel requires both significant capacity and very efficient handling, where time consumption per set of wheels is paramount. This customer stores and handles more than 40,000 sets of wheels for workshop customers. These wheels are moved in and out of the tyre hotel twice a year. All handling is done by using special trucks.

TYRE HOTEL

The solution for quick, efficient and safe storage and handling of many wheels



FACTS AND FEATURES

- Minimum time spent picking and moving around at the storage facility
- The wheels are stored horizontally on Wheel Pallets
- Wheel Pallets with wheels may be handled by truck
- The location of all wheels is managed using a barcode system
- All wheels are stored and handled on Wheel Pallets for high efficiency

Contact us for guidance on the optimum design of your tyre storage facility!



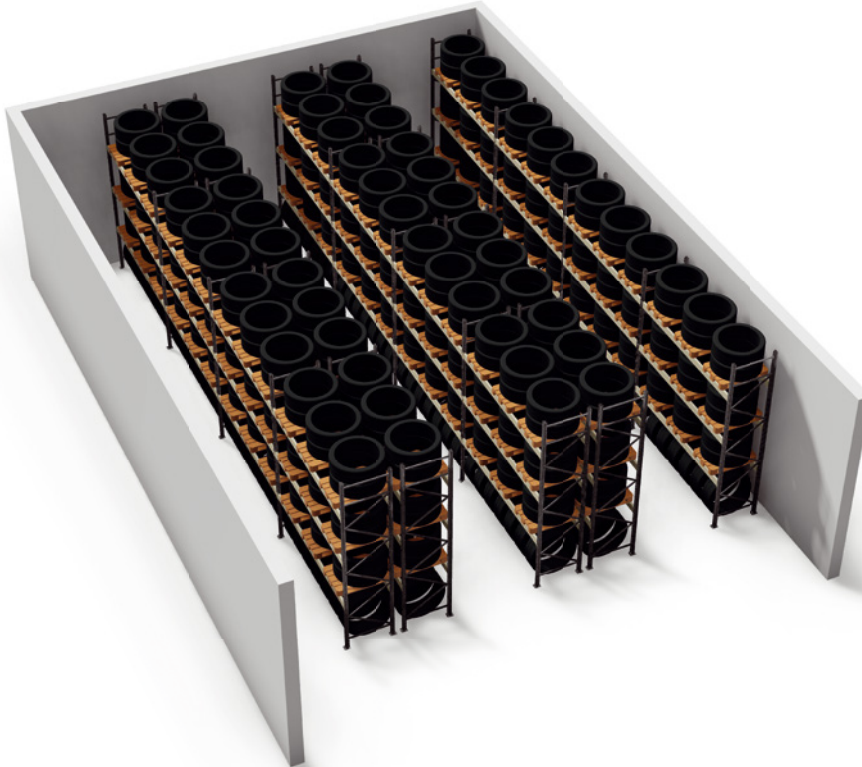
HEAVY DUTY TYRE RACKS

STORAGE OF HEAVY DUTY TYRES AND WHEELS

Large tyres and wheels are best and most efficiently stored in pallet racking. This is possible by a combination of two methods: Pallets with wheels are placed on the shelving beams and at floor level, rails are installed in the floor which keep the large tyres and wheels in place. An efficient solution for tyre workshops with many heavy duty assignments.

HEAVY DUTY TYRE RACKS

Efficient system for the storage of heavy duty wheels



EFFICIENT
STORAGE OF
HEAVY WHEELS

FACTS AND FEATURES

- Wheels/tyres are stored in a system constructed from pallet racking
- At the bottom tier, wheels are stored vertically
- The bottom tier is made up of a rail in the floor
- In the remaining pair of beams, the large wheels are stored on pallets
- Safe and efficient storage of heavy wheels

Contact us for guidance on the optimum design of your tyre storage facility!



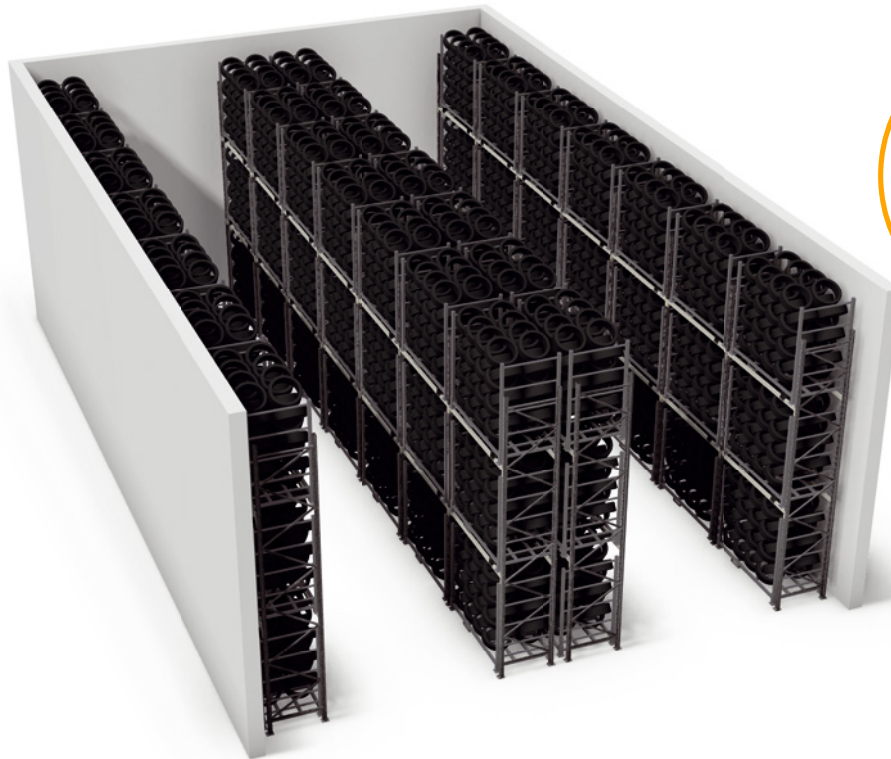
TYRE STORAGE IN BOXES

STORAGE OF NEW TYRES IN BOXES

For workshops with many new tyres, it is paramount that the new tyres are stored in an efficient and compact manner. Tyre boxes may be used for this, as they may be stacked and stored in pallet racking. Tyre boxes are available for both ordinary tyres and the very large heavy duty tyres.

TYRE STORAGE IN BOXES

Efficient and compact storage of new tyres – both ordinary and heavy duty tyres



**FLEXIBLE
SYSTEM FOR
SMALL AND LARGE
WHEELS**

FACTS AND FEATURES

- The boxes may be stored in pallet racks or may be stacked
- The boxes may be folded and stacked when not in use
- Different sizes of boxes are available for different types of tyres
- The boxes may be easily handled by truck
- Very flexible system

Contact us for guidance on the optimum design of your tyre storage facility!



HOVMAND W-LIFT

WHEEL LIFT FOR TYRE RACKS IN 3 TIERS

In order to be able to correctly and ergonomically handle tyres and wheels in 3-tier tyre racks, we recommend the use of a wheel lift. The lift fits our Wheel Trolley which means that another ergonomically correct aspect is added to the entire process of handling and moving wheels.

HOVMAND W-LIFT

Lift trolley for ergonomically correct handling of tyres in 3-tier tyre racks



LIFTS 4 WHEELS
ON A WHEEL
TROLLEY

FACTS AND FEATURES

- Ensures good ergonomics in the handling of tyres into tyre racks
- No more incorrect lifting below the knees or above shoulder level
- Tyres and wheels on the third tier are pulled out with a rake to the lift trolley
- Wheels may be handled directly on Wheel Trolleys
- Lifts 4 wheels on a Wheel Trolley



WHEEL TROLLEY TOWER LIFT 1.0

ERGONOMIC HANDLING OF TYRES IN HIGH TYRE RACKS

For handling wheels in racks of more than 3 tiers, we recommend the Wheel Trolley Tower Lift. This lift ensures the optimum use of the tyre storage capacity. The tool at the front of the lift fits the Wheel Trolley and facilitates the most ergonomic handling of tyres and wheels in the tyre racks.

WHEEL TROLLEY TOWER LIFT 1.0

The lift which makes it possible to place wheels in to very high tyre racks



COMPATIBLE
WITH WHEEL
TROLLEYS



FACTS AND FEATURES

- Enables the use of eight tier tyre racks
- Custom-made tools – compatible with Wheel Trolleys
- Lifts 4 wheels on a Wheel Trolley to a height of more than five metres
- The lift has a very slim silhouette
- Required walkway width between tyre shelves of a mere 1.4 metre
- 100 kg lift capacity



WHEEL TROLLEY TOWER LIFT 2.0 / 2.1

USER-FRIENDLY HANDLING OF TYRES IN HIGH TYRE RACKS

Wheel Trolley Tower Lifts 2.0 and 2.1 may be used for the handling of wheels in racks of more than 3 pair of beams on an equal footing with the 1.0 version. The 2.0 and 2.1 use the same types of front-end tools as the 1.0 but have extra features which make working with wheels in high racks an even more user-friendly experience.

WHEEL TROLLEY TOWER LIFT 2.0 / 2.1

Lift for considerably user-friendly handling of wheels in high tyre racks



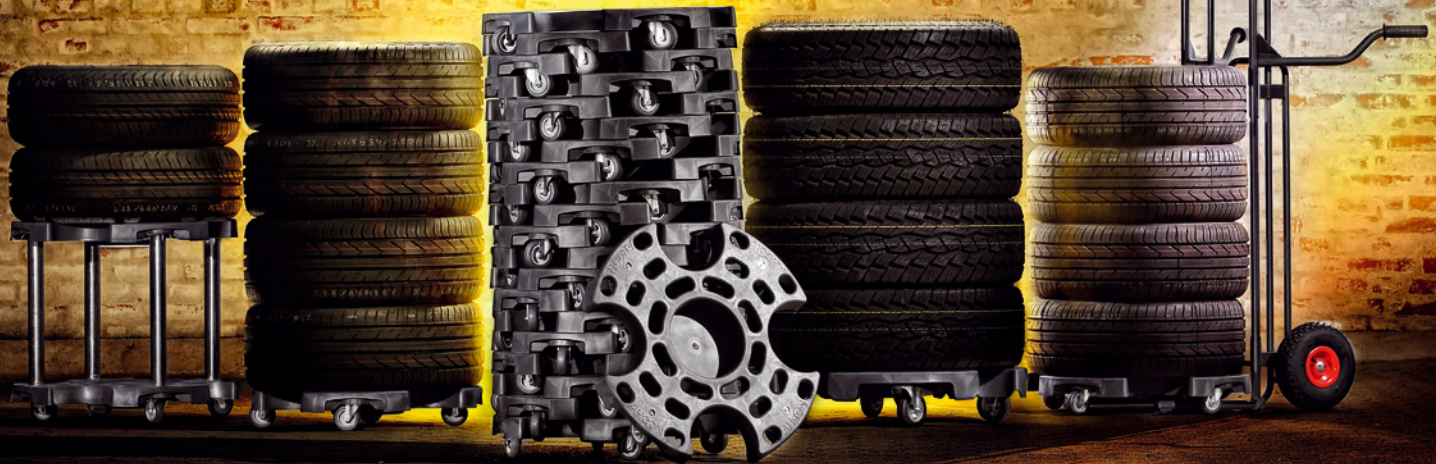
COMPATIBLE
WITH WHEEL
TROLLEYS




Holder for ekstra Wheel Trolley

FACTS AND FEATURES

- Same features as Wheel Trolley Tower Lift 1.0, see page 27
- Also equipped with reverse camera and information display with three speeds
- The tool has a lift capacity of 120 kg
- Battery capacity of approximately 200 cycles of operation
- Hydraulic front tilting feature



 **MADE IN DENMARK**

Streamlined design - developed and produced in Denmark

WHEEL TROLLEY

The Wheel Trolley is our own brand consisting of products which makes moving tyres and wheels in the workshop easy, ergonomically correct and safe. The first Wheel Trolley was constructed in Denmark in 2006 and we have subsequently developed a wide range of variants, drawing on our considerable knowhow.

The products all share a focus on moving tyres and wheels in an intelligent manner.



All Wheel Trolley products are manufactured and assembled in Denmark.

WHEEL TROLLEY

COMPATIBLE WITH LIFTS FOR TYRE HANDLING

A clever transport unit for normal-sized wheels and tyres. The Trolley is designed for either 8 tyres or 4 complete wheels. The Wheel Trolley is compatible with several different types of lifting equipment that can be used to raise the Wheel Trolley up and ensure an ergonomic working height.

Also when handling wheels in tyre racks

VEHICLE	MAX LOAD	DIAMETER	HEIGHT
 CAR	 120 KG/265 LBS	 0630 MM/24.8 INCH	 110 MM/4.3 INCH

MATCHES LIFTING
EQUIPMENT FOR
TYRE RACKS



FACTS AND FEATURES

- Smart transport unit for tyres and wheels in workshops and storage facilities
- Goes hand in hand with our lifting equipment for tyre racks
- Makes moving tyres from storage facility to workshop, and vice versa, easy and ergonomically correct
- Designed for 4 complete wheels or 8 tyres
- Improves workshop ergonomics and efficiency

WHEEL TROLLEY OFF ROAD

FOR MEDIUM-SIZED WHEELS AND TRANSPORT ON UNEVEN SURFACES

Wheel Trolley Off Road is with a diameter of 700 mm ideal for loading and transportation of medium-sized wheels and tyres – like van- and 4X4 wheels. Wheel Trolley Off Road is fitted with extra-large casters, making the transport on uneven surfaces easier – for instance across courtyards etc.



VEHICLE



CAR

VAN

4X4

MAX LOAD



180 KG/400 LBS

DIAMETER



Ø700 MM/27.6 INCH

HEIGHT



150 MM/5.9 INCH



WHEEL TROLLEY XL

TRANSPORT OF XL-SIZED AND HEAVY WHEELS

The Wheel Trolley XL is suitable for the transport of SUV wheels, 4X4 wheels, van wheels and other large wheels. It is a completely indispensable tool for handling and transporting large and extra-heavy tyres around the workshop.



VEHICLE



CAR

VAN

4X4

MAX LOAD



250 KG/552 LBS

DIAMETER



Ø800 MM/31.5 INCH

HEIGHT



150 MM/5.9 INCH

WHEEL TROLLEY EASY LIFT

AUTOMATIC HEIGHT ADJUSTMENT



Automatic adjustment of height in relation to the weight placed on the top plate. Wheel Trolley Easy Lift is our new invention which may be used for, amongst others, the mounting and dismounting of wheels, at tyre racks and as an ergonomically correct transfer to the tyre-changing machine.

VEHICLE



MAX LOAD



DIAMETER



HEIGHT



CAR

VAN

4X4

180 KG/400 LBS

Ø700 MM/27.6 INCH

240 - 580 MM/9.4 - 22.8 INCH



Patent pending PA 2018 00299



FACTS AND FEATURES

- The most ergonomic variant in our range of Wheel Trolleys
- Adjusts height in relation to the load
- Designed for 4 wheels and may be used for, amongst others, the mounting/dismounting of wheels
- Supplied with wheel brakes on 2 casters
- Constitutes a considerable improvement to the working environment when handling tyres

WHEEL TROLLEY EXTENDED

RAISED TROLLEY WITH GOOD WORKING HEIGHT

The Wheel Trolley Extended is best used with max. 2 wheels at a time. The extra height provides the optimal working height for lifting, and thus an ergonomic optimization of several work situations.

VEHICLE	MAX LOAD	DIAMETER	HEIGHT
 CAR	 120 KG/265 LBS	 Ø630 MM/24.8 INCH	 580 MM/22.8 INCH



WHEEL TROLLEY EXTENDED XL

GOOD AND ERGONOMICALLY CORRECT WORKING HEIGHT

Wheel Trolley XL Extended is used with 2 pcs. van-, SUV- or 4X4 wheels at a time. The raised Wheel Trolley XL enables an optimal working height for handling heavy and large wheels – and optimizes the ergonomics and many processes in tyre and car workshops.

VEHICLE	MAX LOAD	DIAMETER	HEIGHT
 CAR	 250 KG/552 LBS	 Ø800 MM/31.5 INCH	 600 MM/23.6 INCH



WHEEL PALLET

SQUARE TROLLEY FOR MANY TYPES OF STORAGE

The Wheel Pallet is perfectly suited to mobile storage of various forms of goods, including tyres. In large warehouses and storage facilities for tyres, Wheel Pallets are used for tyre storage.



VEHICLE



CAR

VAN

4X4

MAX LOAD



250 KG/552 LBS

SIZE



600 X 800 MM/23.6 X 31.5 INCH

HEIGHT



180 MM/7.1 INCH



WHEEL CADDY

PRACTICAL TROLLEY COMPATIBLE WITH WHEEL TROLLEY

The Wheel Caddy is a highly functional tyre and wheel carriage. It is an indispensable helping hand when a Wheel Trolley including wheels is to be transported over slightly longer distances than across the workshop floor. The clever caddy is fitted with large wheels, which makes it easy to run on uneven surfaces, even when loaded.

VEHICLE



CAR

VAN



200 KG/441 LBS



820 X 820 MM/32.3 X 32.3 INCH

HEIGHT



1.680 MM/66.1 INCH



Pictures, descriptions, details and specifications are available on our website: www.ahcon.com

F1 TYRE AND WHEEL CART

SMART SHOWROOM CART FOR TYRES AND WHEELS

Use the cart for profiling tyres and wheels well. Fill the 2 beam tiers of the cart and place it outside during workshop opening hours.

In that way, visiting customers are met by a handsome display of tyres.



PRACTICAL
CARTS FOR TYRES
AND WHEELS

AHCON WHEEL CART

FOR THE DISMOUNTING OF WHEELS AND TRANSPORT

Used in connection with the dismounting of wheels and for transport to the mounting line

Smart trolley with dispenser system which clearly indicates where on the vehicle each wheel belongs.

From the AHCON wheel cart, the wheels may be easily rolled onto the mounting line where further work with the wheels may be carried out.

The cart ensures that the wheels are kept at an appropriate working height.





EXPERT GUIDANCE IS THE KEY TO A SUCCESSFUL PROJECT

MAKE OPTIMUM USE OF THE SPACE AVAILABLE WHEN DESIGNING TYRE STORAGE

It may be difficult to see how a tyre storage facility may be furnished to ensure the necessary capacity and in order to optimise all work processes.

We have significant experience in the furnishing of tyre storage facilities and would be happy to make our knowledge available to you to ensure the success of your project.

We tailor solutions to precisely fit your premises – and your needs.

Contact us for advice, guidance and suggested plans.

**SINGLE RACK
- LOW**

CAPACITY

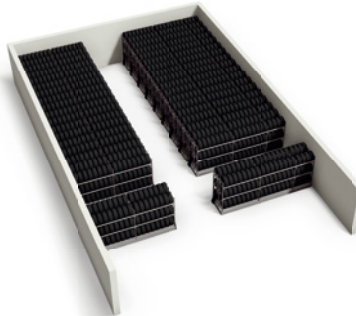
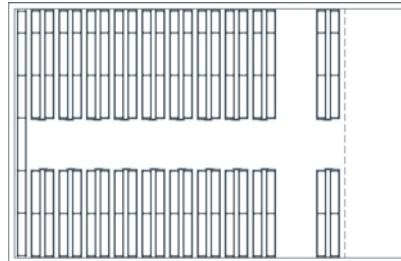
100%



**MOBILE SINGLE RACK
- LOW**

CAPACITY

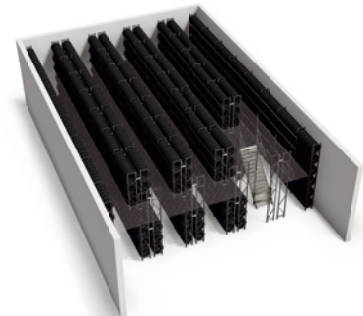
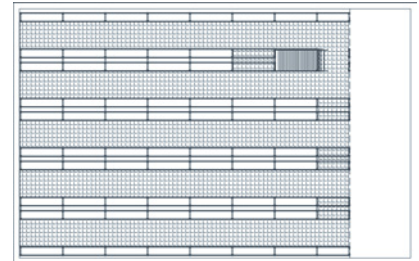
127%



LEVEL RACK

CAPACITY

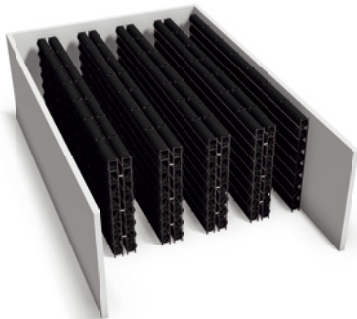
182%



**SINGLE RACK
- HIGH**

CAPACITY

224%



**TWIN RACK
- HIGH**

CAPACITY

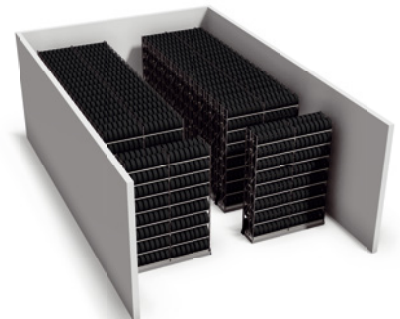
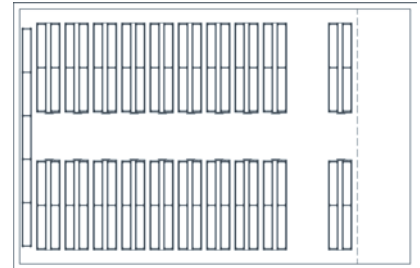
298%



**MOBILE SINGLE RACK
- HIGH**

CAPACITY

302%



FLEX1ONE AHCON®

FLEX1ONE A/S | LADELUNDVEJ 37-39 | DK-6650 BRØRUP | +45 76 15 21 50 | AHCON@AHCON.DK