AUTOMOTIVE STORAGE SOLUTIONS
Ideal picking and storage solutions whatever the component

Shelving | Pallet Racking | Storage Machines
Solutions for cost-effective automotive storage

The various shapes and sizes of automotive parts, from the smallest nuts to large fragile windscreens, make automotive storage a special challenge. The local garage as well as the international car manufacturer both have the challenge of storing everything safely and efficiently while still having everything easily accessible. The solution is a framework of uprights and shelves, adaptable enough to store everything in the garage as well as the work area, with all parts to suit the garage, workshop and office. The customisation also promotes cost-efficiency. Store more, store it right and store it safe. Naturally this will have a positive effect on your revenue.

Thinking inside the Box

Thinking inside your warehouse. Our broad range of storage solutions have one thing in common; robustness and adjustability, which allows us to provide your current needs – which is equally easy to adjust for your future needs. Contact us, and we will start thinking inside your box to develop the customised, variable storage solution for you.

enquiries@dexion.co.uk
www.dexion.co.uk
telephone +44 (0) 800 581 531
The HI280 shelving system is particularly suited for the storage of small parts such as spare parts in a car garage, a car dealership or a smaller warehouse for component parts. Many car parts stores are already using HI280 shelving. The basis of the storage system is a range of shelves and beams made from high-grade pre-galvanized steel. These can be assembled in countless ways. Special solutions are sometimes required, whether it's for very small, acidic products or products that are sensitive to an electrostatic discharge.

The wide range and robustness of the HI280 system makes it versatile and adaptable enough for your specific and changing situations. The HI280 shelving range has a vast assortment of highly developed accessories specifically for the automotive sector. These accessories enable a well-adapted storage solution with high space utilisation, high accessibility and a good working environment, to be created that suits the specific requirements of the automotive industry.

In larger storage facilities, such as a central spare parts warehouse, the shelving system can create a good complementary storage facility alongside a pallet racking system in order to increase the storage density of the warehouse.

Incorporation of a carton flow system in the HI280 for picking fast moving goods and using FIFO principles could further enhance storage.

By mounting the shelving on mobile bases, a compact storage system is created. Mobile shelving can double the storage capacity compared to traditional static shelving. Mobile HI280 is especially efficient in situations where there is a wide range of small parts, but where space is limited, or where space is required for other activities. The initial investment is a very cost-effective solution, compared to a building extension.

This solution can also help prevent theft of expensive parts, as the mobile units can be locked closed and access given only through an electronic code or key fob transponder.

Suggested accessories for shelving systems:

- Display panels
- Wind screen divider
- S-hooks
- Ring hook
- Space dividers
- Shelf dividers
- Pull-out drawer
- Drawers nest
- U-support
- Lockable doors

More information on page 12-13

For more information see:
www.dexion.co.uk/auto-shelving
Expand your space with HI280 Multi-tier

In situations where you need to expand your space, a multi-tier system could be a better solution than an expensive extension of the building. Whether you want to expand your showroom in your car dealership or increase the number of working stations in your garage, by installing a HI280 multi-tier system, the full height potential of the building could be utilised without expensive handling equipment.

Compared to other storage solutions, the multi-tier solution lets you easily adapt your capacity to peak hours or peak seasons. In many situations, a multi-tier installation will also reduce the walking distance for employees compared to a regular single tier shelving system. With a large range of products, common in the automotive industry, a multi-tier system, with optimal product placement, will create an efficient storage solution.

The clever design of HI280 shelving makes the multi-tier fully compatible with the standard HI280 shelving and its special automotive accessories. The HI280 multi-tier, with an interposed mezzanine floor, is a construction built of two or more levels. To fully support your working processes, pallet gates, stairs, special floor surfaces, sprinklers or lighting can be incorporated into the system.

Optimised tyre storage is about obtaining the maximum amount of tyres in the available space without affecting the quality of the tyre. Standardised components are assembled into a tailor-made solution – easy to install, durable in use, and easy to adjust and readjust again.

Storing tyres in the standard HI280 or Longspan shelving systems is effective in small installations. Tyres with and without wheel rims can be stored vertically, providing a high storage density and freeing up floor space. These tyre racks – with spans of up to 2 metres – are ideal as they reduce the number of vertical uprights allowing the maximum number of tyres to be stored. These are available in both the HI280 and Longspan ranges.

HI280 shelving can be mounted on mobile bases, to provide the optimal compact tyre storage system. Although the investment is higher, it is often less expensive than the alternative of a building extension. It can also create very secure storage as the mobile units can be locked together and accessed given only through an electronic code or key. For seasonal storage of tyres, this might be the ideal solution.

When you need to store more tyres in batches, a similar mobile system can be created using pallet racking, where tyres are stored in bulk in stillages or on pallets. Pallet rack storage utilises the height of the available space as well as the width and depth.

More information see: www.dexion.co.uk/auto-multi-tier

Tyre Storage - maximum storage density

More information see: www.dexion.co.uk/tyres
Storage Machines – for efficient storage of small parts and tools

If you are in a situation where you are considering the expansion of your parts warehouse, or where your static storage solution needs to be updated, but space is limited, then vertical storage machines might be the perfect answer. A storage machine can save up to 70% of the space compared to traditional storage systems.

Depending on your specific situation, a storage machine could be the ideal space saving solution for storing your spare parts, in an efficient high density system capable of handling all those different and sometimes oddly shaped parts.

Utilising the height of your warehouse, up to 15m, but with a small footprint, approx. 13m², vertical storage machines offer fast ergonomic access to components or tools while reducing picking times and increasing pick accuracy.

An automated storage machine can be easily integrated into different ERP systems via local or global networks, providing the opportunity of total control worldwide. If you already have storage machines, but are lacking ERP integration, we can upgrade your system.

Complete solution for your tools

Today, a service or repair of a car or other vehicle requires a wide variety of unique tools, each in different sizes, often oddly shaped and often expensive to replace.

By installing a vertical storage machine, your method of handling tools could be improved. Providing a solution where tools can be stored in one central and easily accessible place, in an organized manner. Security and availability are improved through the transparency of an items location and so the process of retrieval is speeded up. The freed up floor space can then be used for additional work stations or other value contributing activities.
Pallet Racking Systems – for manufacturers and larger warehouses

Pallet rack storage is a strong adjustable storage solution, allowing shelf loads of up to 5 tonnes and bay loading of up to 30 tonnes. Therefore it is most suited to large scale installations, such as a central warehouse for the bulk storage of spare parts or other car parts.

The Dexion P90 pallet racking system is available in heights up to 30 metres and in a variety of depths and widths, making it possible to utilise the full potential of the building. The rack system can be assembled as single or double depth racks, while the robust construction of the system allows the storage of very heavy parts such as engine blocks and car batteries.

P90 pallet racking also has a wide range of accessories to support the storage of automotive components that wouldn’t otherwise fit on a standard pallet. With accessories like vertical dividers, oddly shaped products such as windscreens and exhaust pipes can be stored in an ideal way. Steel shelves, wire mesh shelving, pallet support bars and shelf dividers, can also make the storage of small objects efficient.

For the storage of oils, chemicals or other hazardous liquids, drip trays will eliminate the risk of damaging other stored goods below, if there is a leakage.

A pallet racking system can also be turned into a suitable solution for the picking of individual boxes or single parts. With the addition of pull-out units, which allow objects to be retrieved from within the pallet racking without using a forklift or pallet truck. The pallet can be pulled out of the racking without forcing the worker to enter the racking framework for picking. Cantilever flow systems can also be incorporated into the pallet racking to further support picking processes.

When more storage space is needed, the P90 system can easily be mounted on automated mobile bases, called MOVO. This solution also saves time by reducing the picking distances, and possibly avoiding the need for an otherwise expensive building extension.

More information see: www.dexion.co.uk/auto-pallet
Combine the storage systems with bins

In the automotive industry there are often a large variety of small parts that need to be stored in an efficient way. In order to fully utilise the capacity of your storage system, it is vital to have storage bins that fit perfectly within the system, thereby increasing storage efficiency and density. This also contributes to improved replenishment efficiency, improved storage organisation, as well as making it easy for the worker to take parts to a work station.

A complete range of bins, suitable for our shelving systems, storage machines and other storage products is available. Adding accessories such as dividers and special labels increases the efficiency even further.

For products sensitive to Electrostatic Discharge (ESD), such as circuit boards, sensors or other electronic parts, we can supply a special range of bins that eliminate such discharges.

More information see: www.dexion.co.uk/auto-bins

Accessory parts for increased efficiency

H1280 Accessories

Bay divider
For vertical storage of long goods, like exhausts/hoods.

Shelf divider
Used to separate stored items and create smaller shelf locations.

Loop divider
Storage of windscreen or bulky parts such as bonnets and doors.

Pull-out drawer
Suitable for storage of smaller goods or items. (Internal dividers available.)

Shelf drawers and drawers nests
Suitable for storage of smaller goods or items. (Internal dividers available.)

Display panels
Used to provide a good overview of the stored parts.

Ring & hook
Ideal for storing fan belts.

S-hook
Used for storage of exhaust pipes, coupled here with a tubular bar.

Lockable doors
Used to create full and part height lockable cabinets.

P90 Rack Accessories

Pull-out unit
Enabling a pallet of goods to be pulled out of the racking for picking.

Separation bars
Ideal for vertical standing long goods.

Carton-flow
Used to store fast moving products according the FIFO principals.
References

Auto Lindvang, DK
Auto Lindvang, distributor for the brands Volvo, Renault, Citroën and Landrover, was facing a merger of two automotive companies and therefore needed extra capacity for storage and handling of tyres. A mobile shelving system was installed for tyres in the warehouse, along with a special truck for handling tyres.

Koiviston Auto Oy, FI
Koiviston Auto purchased several Paternoster storage machines, when the company moved its logistic functions to a newly built central warehouse in Lahti. The high ceiling space in the buildings has been utilised by this solution, this was the main reason for Koiviston Auto choosing these machines. As a result there has been overall increase in storage space.

Evo Bus, DE
To optimise the world wide delivery of spare parts for the bus manufacturer EvoBus, a store was designed with static and mobile shelving for the handling of fast movers in their new “dynamic centre”. The centre is now arranged for up to 8,000 customer picks per day and the layout has made it possible to increase the picking speed significantly.

KG Knutsson AB, SE
A company expansion due to increasing export and new product groups, meant that KG Knutsson needed a new central-store. A Combination of P90 pallet racking and H280 shelving were chosen and now holds goods from, on average, 70 trucks that are coming in and out daily.

Svenska Bil i Norden AB, SE
Limited space made Svenska Bil replace an old manual picking shelving system with a Tornado and two Paternoster storage machines. This solution resulted in a space saving of 450 m², reducing the storage footprint from 600 m² to 150 m². In addition, a new, small warehouse was built to store 4,000 tyres on 18 runs of mobile H280, each with between 3 and 5 levels.

Expert Advice and Services

Keep your warehouse safe - Spotting defects early

The daily movement 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 minimise the frequency and effect of these incidents by identifying crucial damage at an early stage.

Our inspectors are highly experienced and certified. They provide yearly inspections to keep your facilities safe and up to date. Every inspection is followed by an offer of suggested replacement parts including fitting. When fully approved, you receive an official certificate of approval until the next inspection date.

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 facilities
- Early risk discovery minimizes future repair costs
- Repair work can be completed quickly
- Provides independent expert to assess equipment

The suggested improvements can be as simple as amending stock locations or changing your buying patterns, which if done correctly can all have significant benefits.

Warehouse optimisation and Consultancy

Constructor Warehouse Intelligence System (C-WIS) is a software platform that works with any existing WMS or ERP system and provides you with an insight into capacity and capital binding.

By processing data from your systems, C-WIS carries out complex calculations of your stocks balance and warehouse logistics providing specific proposals for changes.

What C-WIS does for you:

- 15-20% cut in operational costs
- 20-30% tied up capital freed
- Highest efficiency is ensured through constant monitoring

More information see: www.dexion.co.uk/inspections