MOBILE SHELVING SYSTEMS
FOR LIGHT AND MEDIUM SHELF LOADS

Mobile systems for individual solutions to maximise your storage capacity
SSI SCHAEFER Group
Mobile Shelving Systems

FRITZ SCHAEFER, Neunkirchen, DE
The product range of SSI SCHAEFER / FRITZ SCHAEFER GMBH – also the headquarters of the SSI SCHAEFER Group – comprises the core business of storage technology (rack steel construction for automated small part storage systems AKL and rack supported structures) as well as storage and transport containers, modular shelving systems, pallet and cantilever racking.

SSI SCHAEFER, Neunkirch, CH
SSI SCHAEFER AG plans and implements conventional and fully automated mobile racking systems for the whole of the SSI SCHAEFER Group. The competence centre of the SSI SCHAEFER Group has implemented more than 2,000 mobile racking systems internationally. The range of products and services reaches from system planning and consultation through the installation of systems to custom-designed service packages.

SSI SCHAEFER, Werk Hranice, CZ
SSI SCHAEFER, plant Hranice, CZ
SSI SCHAEFER S.R.O. production site Hranice in Czechia: in this production plant, the main products for automation such as mobile racking systems, storage and retrieval machines, pallet conveying systems and the SCS (Schaefer Carousel System) are made, pretested and shipped to the installation sites on time.
Mobile Shelving Systems
For Increased Storage Capacity

Mobile shelving systems consist of a series of shelving runs which move parallel to one another and require only a single operating aisle for access to all items stored. The reduction in the number of aisles achieved by this system provides a high degree of both operational and cost benefits.

- Mobile shelving systems require 40% less surface area than static shelving for the same storage capacity.
- There is 85% more storage capacity compared with static shelving occupying the same surface area.
- The amount of surface area occupied of 65 - 85% and the reduction of time spent moving to and from shelves helps to improve retrieval times.

In principle all SSI SCHÄFER shelf and cabinet systems can be placed on carriages. These have excellent running properties for smooth movement, manually assisted bases with different load dependent gear ratios as support for quick and safe methods of working. Electric drives are available for heavy loads. Whether you wish to store files, documents, books, small parts, spare parts to bulk items. SSI SCHÄFER has a storage solution for you.
Technical Information –
Drive Types and Carriages

Different drive types are required dependent on the individual system carrying capacity.

For normal loads manually assisted drives are used, whilst for heavier loads electric drives are utilised.
For track-free systems the drive takes place directly via rollers on the floor.

Crank drive – “track-driven” system
The bases are moved manually with the aid of a crank and a gear ratio adjusted to the loads carried. For a “track-driven” system, a gearwheel grips into a drive chain integrated in the guide rail for drive. This system is effective due to its high maximum load capability and easy running.

Crank drive – “track-free” system
The carriages are moved manually with the aid of a crank and a gear ratio adjusted to the loads carried. In the “track-free” system, drive is provided directly by the castors on the floor. They are guided at the rear by a small dowel-shaped profile. This system requires no ramps or infill floor, saves on assembly time, is cost-effective and has proven to be useful when changes happen such as a move or extension.

Electric Drive
In this system the base is moved by a single motor drive which utilises a gearwheel on a chain set into a floor-mounted rail.
Technical Information – Safety Accessories

For increased safety it is possible to install a number of devices, which include a return stop on the aisle lock, an anti-twist device to prevent the shelves falling and an aisle lock for locking an individual aisle. A central lock for manual and crank systems for locking a complete system or a particular area. Also dust seals, protective seals and light seals are all avail-

**Return Stop**
Is used as to secure the aisle from unintentional movement.

**Anti-tipping Device**
Prevents a carriage/shelf unit from tipping when the depth/height is unfavourable.

**End Stop on the Floor**
Installed at the end of the system, if bases are not secured to the floor.

**Aisle Lock**
For locking individual operating aisles, where two bases are connected to one another using a locking latch. Only for rail driven systems.

**Central Lock**
For locking the entire system. For crank drive only.

**Light and Dust Protection**
Protects stored goods from light and dust.
Mobile Shelving for Archive Storage

For File/Documents and Archiving – System Components

- Top shelves
- Solid back panels
- Shelves
- Cross braces
- Wing doors
- Suspension rails for various types of file
- Suspension file extension frames
- Finishing panels
- Side panels
- Drive crankshaft
- Crank case
- Mobile base
- Cabinet doors
- Shelves
- Pull-out shelves
- Dividers
- Suspension rails for various types of file
- Suspension file extension frames
- Pull-out shelves
- Dividers
- Retaining hoops for files
- Finishing panels
- Solid steel back panels
- Cross braces
- Mobile base
- Drive crankshaft
For Small Parts and Increased Loading – System Components

Storage trays
Bin fronts
Wing doors with securing device
Solid steel side and back panels
Free standing dividers
Shelves
Full height dividers
Drawers
Shelf containers with labels
Grating with drip tray

Shelves
Grating with drip tray
Storage trays
Drawers
Shelf containers with labels
Full height dividers
Free standing dividers
Bin fronts
Wing doors with securing device
Solid steel side and back panels
Grid side and back panels
Drive crankshaft
Crank case
Mobile base
Longspan Shelving for Storing Bulky Items – System Components

- Meshed back
- Unisets
- Shelves
- Garment rail sets
- Exhaust pipe holder
- Vertical dividers rods
- Steel plate panels
- Dividing rods
- Mesh side panels
- Drive crankshaft
- Crank case
- Mobile base
- Wooden decked shelves
- Horizontal beams for tyre and rim storage
- Horizontal beams for bulky goods storage
- Wooden decked shelves
- Steel plate panels
- Dividing rods
- Pipe stop
- Garment rail sets
- Rail set for any shelf depth
- Solid steel side and back panels
- Mesh side and back panels
- Drive crankshaft
Examples of application

For the Car Dealer

Perfect solution to utilise an often small and restricted area. Use of mobile shelving enables additional service parts for vehicles to be carried resulting in better stock management and better customer service level.

Planning a Compact Warehouse

SSI SCHAEFER offers you more than intelligent warehousing technology – a complete solution from a single source with:

- Analysis of your existing warehouse organisation
- Reorganisation with specialist planning for each item in your range and integration in your existing computerised warehouse administration.
- Ready to use installation with a warehouse-style location numbering system.
**Examples of application**

**In the Parts Warehouse**

Optimised warehouse organisation thanks to mobile shelving system and the use of SSI SCHAEFER plastic shelf containers on the ground floor. The additional warehouse surface gained from using the mobile shelving is used to increase the number of parts held within the same area.

**In the Archive**

Economic use of space for archiving that enables long term document storage to more easily comply with legal time period requirements.