

DYNAMIC SMALL PARTS STORAGE SYSTEMS

Innovative warehousing and order picking systems





Automatic small parts storage systems

Low space requirements with minimal access times, flexible connection to other storage systems, and the modular combination of our proven system components are the basis for efficient, automated storage logistics of bins, trays, and cardboard packaging from SSI SCHÄFER NOELL.

From racking and conveyor systems to order picking strategies: we plan and implement customized system solutions that are adapted to the relevant individual requirements, down to the smallest detail.

Our innovative logistics solutions, such as the SCHÄFER QUAD SHUTTLE (SQS), which is especially designed for the requirements of highly dynamic logistics processes and warehouse areas, are more than just a complement to the comprehensive pallet of classic system components.

Proven systems and innovative solutions for small parts storage logistics.

Advantages

- Smaller load units
- Dynamic access
- Short access times
- Interlinking of systems

Scope of services

- Individual planning for new projects
- Integration into existing storage logistics
- Software connection to existing ERP systems
- Complete handling of the project including training, service and maintenance



The classic: The automatic small parts storage system (miniload®)

Bins

- 300 x 400 up to 600 x 400 cm
- Depending on customer demands
- Up to a maximum of 50 kg



Cardboard packaging

- 300 x 400 up to 400 x 800 cm
- Depending on customer demands



Warehouse configuration

SSI SCHÄFER NOELL offers a complete program of storage systems and suitable conveyor system modules for any requirement and any type of bin.

Storage

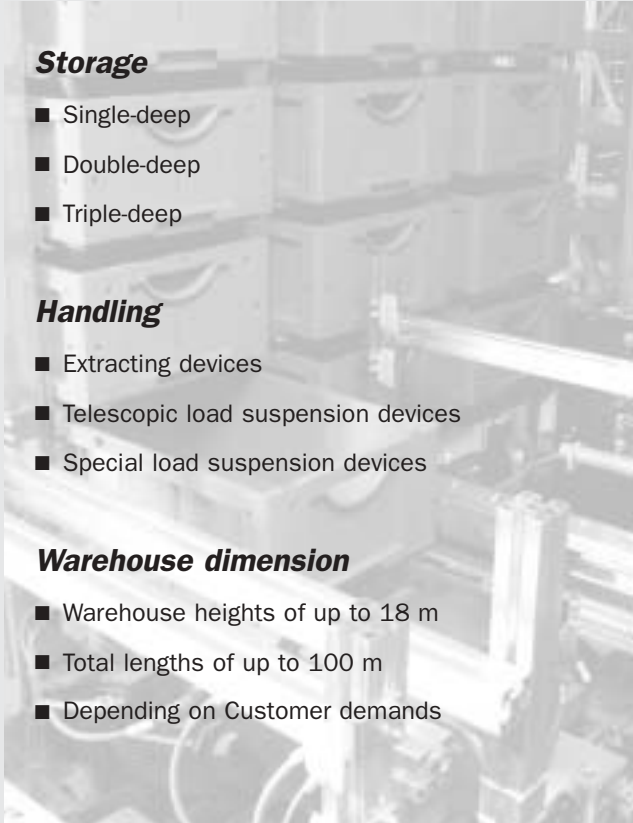
- Single-deep
- Double-deep
- Triple-deep

Handling

- Extracting devices
- Telescopic load suspension devices
- Special load suspension devices

Warehouse dimension

- Warehouse heights of up to 18 m
- Total lengths of up to 100 m
- Depending on Customer demands



Trays

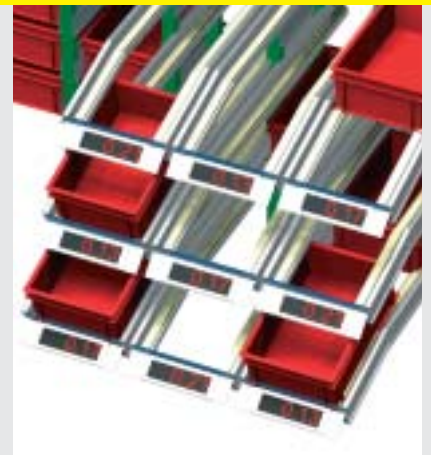
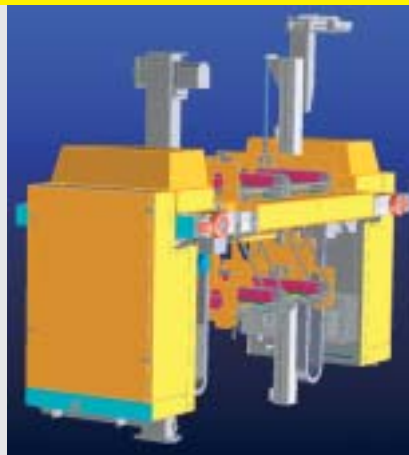
- 600 x 400 mm
- 820 x 630 mm
- 1200 x 800 mm
- Depending on customer demands
- Up to a maximum of 250 kg



Schäfer Quad Shuttle (SQS): Maximum dynamics in the most confined space

With the SQS, SSI SCHÄFER offers a flexible solution for highly dynamic areas (e.g. production buffers, order picking areas / zone order picking, goods to man, sorting and shipping buffers).

The automated interaction of conveyors, shuttles, and vertical conveyors enables the economic and space-saving storage. Pick-by-light provides for efficient, static, and dynamic order picking.



System advantages: extreme concentration of performance – optimal space utilization

- Compared to the SRM, clearly higher throughput of the individual SQS due to the quadruple load suspension device
- Several SQS per rack aisle – multiplication of the throughput with the same storage volume
- Low approach dimensions due to compact design
- Narrow spacing between bins due to novel extracting device



Uniquely high availability and flexibility

- SQS can easily be replaced (e.g. by a spare unit)
- Regular changing of aisles, possible for example with shuttle vehicle in the front zone





SCS: The new highly dynamic storage and order picking system

Conventional storage and logistics systems are reaching their limits: an ever increasing variety of items with batch sizes simultaneously being reduced (due to e-commerce, for instance), competitive pressure, and more and more complex demands of modern ERP systems.

The new SCS (Schäfer Carousel System) has been especially developed due to these high demands. As a stand alone solution or combined with other storage systems, it offers safe handling (goods to man), short access times to a wide range of products, short throughput times, and maximum time saving during order picking due to individual processes being made parallel.

A highly dynamic storage and order picking system.

Advantages

- High order picking performance
- Low space requirements
- Wide, nearly unlimited range of products
- Effective cost reduction
- Simple, proven technologies

Scope of services

- Individual adaptation to projects
- Integration into existing warehouse logistics
- Autonomous, fully functional module
- Connection to existing ERP systems
- Complete handling of a project including training, service and maintenance



Order picking systems

Dynamic, efficient order picking systems as a complement to storage systems are to meet the following customer demands:

- Short throughput times from order receiving until shipping
- Steadily rising number of items
- More orders with few order lines



Order picking examples

- Zone order picking
- Pick by light (e.g. flow rack storage system)
- Pick by voice order picking
- Goods to man
- Sequencing prior to order picking
- Order picking into bins
- Order picking into bucket



LOGISTICS IN MOTION

From our series of brochures



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