

LOGISTICS SYSTEMS

2020
2021

Extract from general catalog

ssi-schaefer.com

Chapter I



SSI SCHÄFER



Small details and the big picture: the advantages of a corporate group



As a leading global expert, SSI SCHAEFER plans, designs and implements projects sustainably and successfully. With a comprehensive range of market-driven products, we generate individually tailored logistics solutions.

In doing so, we safeguard the efficiency, optimization and economy of our customers' specific business processes. Furthermore, our integrated systems offer extensive flexibility, forming a foundation for scalable and state-of-the-art solutions. These range from individual systems to complex facilities. Our automated systems are intended for both global players and mid-size customers.

We offer precisely the right intralogistics solution for every need. The SSI SCHAEFER Group's support, expertise, synergies and innovative power are impressive. SSI SCHAEFER delivers complete solutions from a single source, reliability and availability of the systems together with rapid project completion, in particular when serving as a general contractor. We also offer our customers a reliable long-term investment.

Products planned, developed, manufactured and installed by SSI SCHAEFER form the foundation for these logistics solutions. This enables considerable flexibility at every level of detail and in every phase of the project, enabling customer-oriented solutions to be installed anywhere in the world.



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More IQ for your intralogistics

Intralogistics processes are becoming ever more complex. In manual, automated and fully automated warehouses, countless processes need to be monitored, visualized and optimized. This requires expertise. As the world's leading provider of logistics systems, SSI SCHAEFER not only offers everything for your warehousing but also provides the concentrated IT expertise that only the industry leader can provide.

With more than 1,100 highly trained IT experts, we create an individual IT solution that – based on our WAMAS® standard solution – precisely suits your intralogistic needs, regardless of the size of your warehouse. If necessary, we also provide you with support as certified SAP partner. In doing so, we understand the processes involved in your industry and provide excellent implementation, optimization and training services.

Your advantages:

- ▶ A modular system for all areas
- ▶ Proprietary developed WAMAS® logistics software
- ▶ Certified SAP expertise
- ▶ Innovative KPI analysis for optimized processes
- ▶ Dashboards for real-time data visualization
- ▶ Consulting, implementation, support and training
- ▶ Global service network with more than 70 locations
- ▶ 24/7-support and flexible service contracts

Technological excellence and global market presence make us the most attractive software partner by your side when it comes to intralogistics.





Modular, flexible, transparent: our complete software solution for warehousing

With WAMAS® and SAP, SSI SCHAEFER offers software technologies and scalable solutions for more flexibility and sustainable efficiency throughout your business – to meet the intralogistics challenges of tomorrow.

WAMAS® – SSI SCHAEFER logistics software

Our in-house, standardized logistics software WAMAS combines all your intralogistics components into one intelligent system.

WAMAS is a modular solution which seamlessly integrates into existing SSI SCHAEFER intralogistics and into other intralogistics landscapes. It is also customizable using a wide range of options for controlling manual and automated logistics centers and comes with open interfaces for a smooth communication with your company-specific ERP system. From incoming goods through storage and picking to delivery, WAMAS is the strong link in your logistics chain.

Certified SAP expertise

As a certified SAP partner we also help you to select, implement and operate SAP Extended Warehouse Management (EWM). You benefit from an experienced implementation partner with extensive IT expertise and from a proven solution that provides maximum functionality along with comprehensive process support throughout your warehouse.

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**Manual systems for
small load carriers**

**Semi- and fully automated
small parts warehouses**

**Manual and semi-automated systems
for large load carriers**

**Fully automated solutions
for large load carriers**



Excellence in warehouse logistics

Future-proof logistics solutions should integrate seamlessly into your individual processes, be upgradeable, and adapt flexibly to new conditions. Especially in storage modular solution components are key, which SSI SCHAEFER tailors to your individual requirements.

Cost-effective and efficient storage

The goal of effective storing is to be able to maximize available storage space, preferably at minimum cost. One of the key requirements is, that a large portion of the stored goods can quickly be available at any time. Our systems allow you to maximize the existing space and provide you with almost unlimited design options.

We offer efficiency-enhancing warehouse systems from a single source: From pallet racks, container systems, rack and storage platforms to small parts storage systems, dynamic storage retrieval machines and shuttle systems.





Targeted optimization of warehouse processes – with modular solutions from manual to semi- and fully automated systems

Your advantages:

- ▶ Complete solutions from a single source
- ▶ Modular and scalable systems
- ▶ Wide range of systems, from manual to semi- and fully automated
- ▶ High-performance and modular software solutions
- ▶ High cost-effectiveness thanks to efficient solutions
- ▶ Many years of experience and comprehensive expertise
- ▶ Extensive service portfolio

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Overhead conveying systems

Conveying systems for large load carriers

Conveying systems for small load carriers

Automated guided vehicle systems

Smart conveyors

Future-proof logistics solutions should integrate seamlessly into your individual processes, be upgradeable, and flexibly adaptable. Our broad range of products and solutions is the foundation for individually designed and custom solutions.

Efficient shipping and conveying

Deciding factors in finding the ideal transport solution are grouped items, required throughput, and desired load carriers. They set the parameters for the required system components.

From transporting goods with conveying systems for hanging small or large load carriers to using automated guided vehicle systems, we offer a wide range of products. Combined with our conveyor system connections, we offer a complete package for scalable solutions.

Exceptional quality and compatibility of our components guarantee that the entire system runs smoothly, ensuring optimum security of your investment.





Modular transport solutions for any load carrier to optimize material flows

Your advantages:

- Increased profitability and efficiency of the internal material flow
- Wide range of solutions for any load carrier
- Complete solutions from a single source

- All-around service ensuring a long system life-cycle
- Modular, scalable transport solutions for a variety of requirements
- Long-term productivity thanks to our reliable, high-quality components



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Manual picking

Work stations/ergonomics@work!®

Automatic picking

Paper and bin handling

Product Identification

Perfect flow

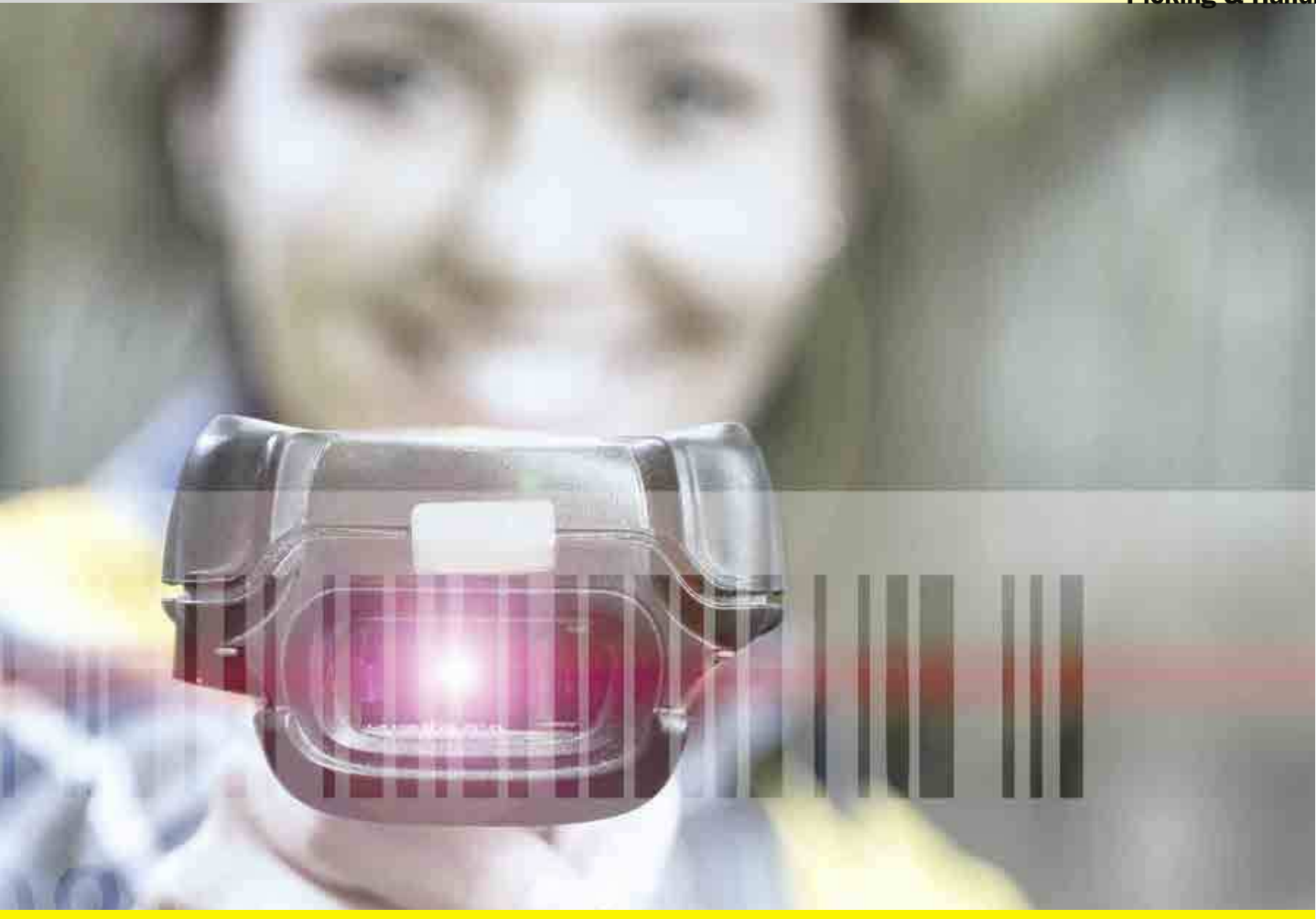
Efficient picking and seamless order processing are essential components of intralogistics. With modular picking and handling systems, SSI SCHAEFER designs precisely tailored solutions to fit your needs, from manual to semi- or fully automated systems.

Economical and efficient

Increased picking speed, lower error rate, simple and ergonomic operation, low maintenance and reliable technology – these are the main goals of efficient picking and handling systems.

We provide everything you need: from the hardware to the software to a fully developed after-sales concept. Our picking and handling systems offer superior quality, modular mix and match design, and ultimate flexibility.





Systems and solutions for error-free processes and efficient material flows

Your advantages:

- ▶ Modular and scalable systems
- ▶ A comprehensive range of system solutions from manual to fully automated
- ▶ Increased picking speed and minimized error rates
- ▶ Ergonomic design
- ▶ Efficient order processing resulting in considerable time savings
- ▶ Low-maintenance and reliable technology


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High bay racking and silo systems



High bay racking systems for IT-controlled storage systems: We construct high bay pallet warehouses and automated mini-load warehouses for you as well as special storage facilities designed for installation in walls or as silo constructions capable of supporting roofs and walls.

Every step of the process from the design to the static calculations, engineering and construction at the in-house production facilities is planned and carried out by SSI SCHAEFER.

There is a major difference between warehousing systems installed in existing halls and silo facilities: with the silo design, the rack itself serves as the supporting structure for the roof and sides. This eliminates the need to construct a separate hall.

The numerous benefits of silo constructions: shorter construction times, savings on foundations, building facilities, roof and facade area along with various attractive tax write-off options. The higher the racking system, the more attractive the implementation is a compact silo variant. The optimum design for your needs depends on diverse parameters. This is why the solution requires an individual analysis. We are happy to serve as your contact and support.





Green Logistics



SSI SCHAEFER has long been a leading company identified by its environmentally friendly production processes. We are aware of our responsibility and that is why we strive to achieve the highest level of environmental compatibility when developing, manufacturing and disposing of our products. In addition to fundamental measures to increase energy efficiency, such as lightweight construction, energy-efficient drive systems and concepts for energy recovery, we are increasingly committed to minimizing the energy requirements of storage and retrieval machines in line with green logistics. This is achieved by compensating the dead weight of the lifting equipment with the use of counterweights.

The topics of environmental protection and sustainability are given high priority in our corporate strategy and all economic processes. This is also reflected in our further product portfolio – e.g. in innovative control technology and in the design of ergonomically optimized work stations according to the keyword ergonomics@work!®.

SSI SCHAEFER has long maintained a strong focus on energy efficiency, safety and ergonomics. That is why the company participates in the "Blue Competence – Sustainability initiative for machinery and systems manufacturing" initiative launched by the VDMA.



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Customer Service & Support 4.0: The future is now

Digitalization is not only revolutionizing production and logistics but also subsequent business processes such as service and support. SSI SCHAEFER offers you a broad portfolio of services, which utilize state-of-the-art technologies such as augmented support or data-supported prevention. You convert your processes to Industry 4.0 – we assist you with Customer Service & Support 4.0. Our Service Account Managers serve as your central contact person for all service inquiries and also compile your tailored service package.

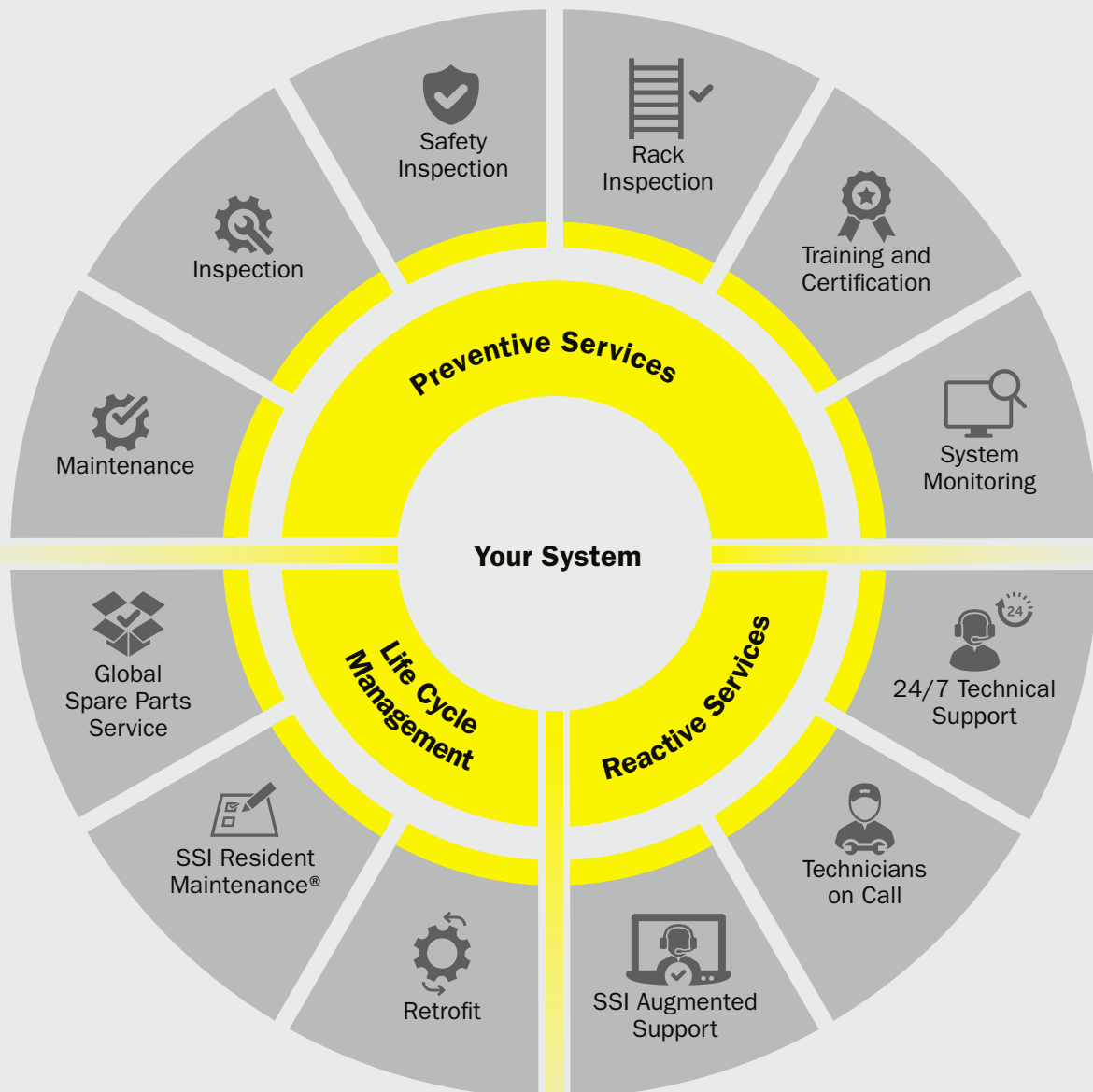
At SSI SCHAEFER, we understand that maximum availability and rapid reaction when service is required are critical to successfully operate a complex logistics system.

We are there for you and offer you competent support. We flexibly adapt our services to your needs and requirements – wherever and whenever you need them and for every scope.



Preventive Services:
Optimum system protection

SSI SCHAEFER carries out maintenance activities, inspections, safety inspections and system monitoring with qualified technicians. We also offer comprehensive trainings for the correct handling and maintenance of your system.



Life cycle management:
Service life extension

Extend the service life of your system with complete on-site service from our technicians, through modernization or expansion along with original spare parts from our web shop.

Reactive Services:
Rapid problem solving

If a fault occurs with your equipment or system, SSI SCHAEFER is there to support you with innovative solutions up to 24 hours a day and 365 days a year.

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