

# AUTOMATION

**2018**  
**2019**

Extract from general catalog

**Chapter I**

**ssi-schaefer.com**



**SSI SCHÄFER**





## Small details in the big picture: the advantages of a corporate group

SSI SCHAEFER numbers among the leading specialists for planning, developing and implementing projects for efficient intralogistics. With an extensive spectrum of market-oriented products, we generate individually tailored logistics solutions.

In doing so, we sustainably safeguard the efficiency, optimisation and economy of our customers' specific business processes. Furthermore, the defined interfaces of the solution elements also offer extensive flexibility and form 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 stands for complete solutions from a single source, reliability and availability of the systems together with rapid project completion, in particular when serving as the general contracting. 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 exceptional flexibility for every detail and in every phase of the project, resulting in customer oriented solutions installed anywhere in the world.





General contracting

Planning and consultancy

Project management

IT and automated systems

Control engineering

System improvement (retrofit)

After-sales service and maintenance

Highly dynamic order picking systems

Steel construction and racking systems

Storage and retrieval systems for  
pallets, corlettes, etc.

Materials handling technology for  
pallets, containers, boxes and trays

Container handling systems

Paperless order picking systems

Sorting and distribution systems





## The world of IT, focused on the future...

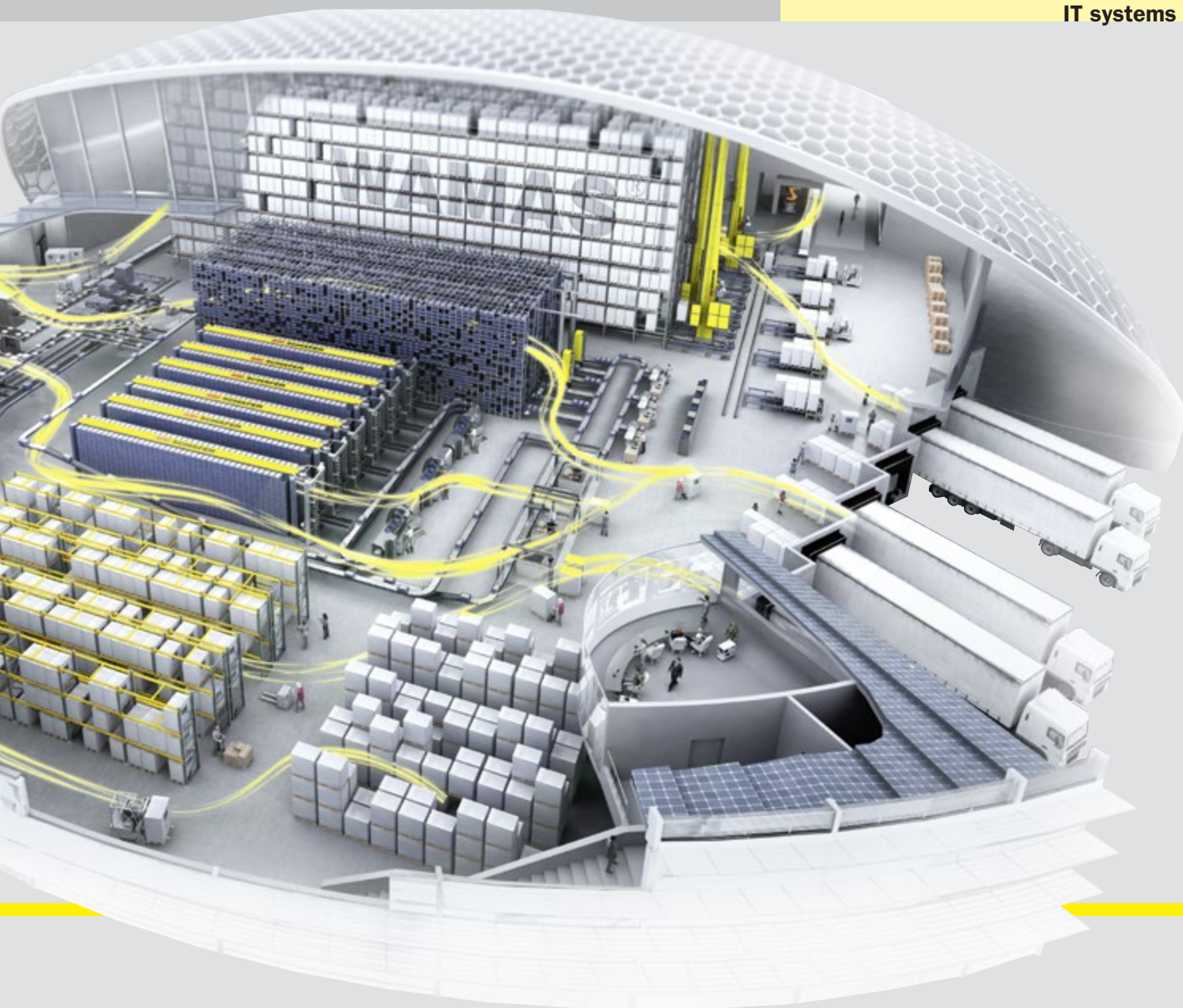
The WAMAS® logistics software from SSI SCHAEFER and SAP's EWM logistics module optimize, control and manage all of the processes from manual to highly automated intralogistics systems. Even the standard products contain a broad spectrum of processes. Thanks to the modular design of the logistics software, these can be optimally configured to create a unique solution for every customer. SSI SCHAEFER's IT specialists create a software package precisely tailored to the customer and optimally designed to meet their specific needs.

### **WAMAS® logistics software**

The WAMAS® logistics software developed in-house serves as the basis for every intralogistics system. WAMAS® forms the link between incoming goods, storage, order picking and delivery along with all of the processes in between. WAMAS® from SSI SCHAEFER monitors, controls and optimizes the productivity the entire system. In the process, SSI SCHAEFER supports its customers with freely configurable dashboards that visualize the logistics cycle and enhance the efficiency by displaying the KPIs of the logistics processes. With more than 1000 highly skilled IT experts, SSI SCHAEFER develops the optimum solution. Regardless of the size. SSI SCHAEFER understands the business processes all of the industries, providing outstanding services for the implementation, optimisation and training. In addition to highly advanced logistics processes, WAMAS® also perfectly covers all of the needs for warehouse automation and provides interfaces to a diverse range of ERP systems. At the same time, the system is also flexible enough to integrate into existing IT landscapes while fulfilling the associated requirements.







... designed for the present

**Worldwide support around the clock**

Users worldwide are supported by SSI SCHAEFER's IT employees and local service teams. This guarantees a round-the-clock service by the support team to ensure that all of the systems continue running smoothly. Worldwide and in every language.

**Certified SAP expertise**

As a certified SAP partner, SSI SCHAEFER supports you with the selection, implementation and operation of SAP solutions. Depending of your warehouse concept, SSI SCHAEFER utilizes the SAP Extended Warehouse Management (EWM) solution. SSI SCHAEFER is an experienced implementation partner certified by SAP and supports customers with state-of-the-art IT expertise.





## Highly dynamic order picking and automation systems

Minimum space requirements, the shortest access times, flexible connection to other warehouse systems and the modular combination of proven system elements are the basis for efficient and automated warehouse logistics. SSI SCHAEFER's racking and conveying and handling technology are designed for these order picking strategies. Tailored systems are implemented there are configured to meet the customer's specific requirements down to the smallest detail.

Highly dynamic order picking and automation systems compile complex orders fully automatically, reliably and in the shortest possible time. Extremely rapid order processing with the very highest quality – even at peak times – guarantees you the greatest possible productivity combined with an optimum material flow.

Innovative logistics solutions such as the Schaefer Carousel System (SCS) are specially designed to handle highly dynamic logistics processes and warehouse tasks.







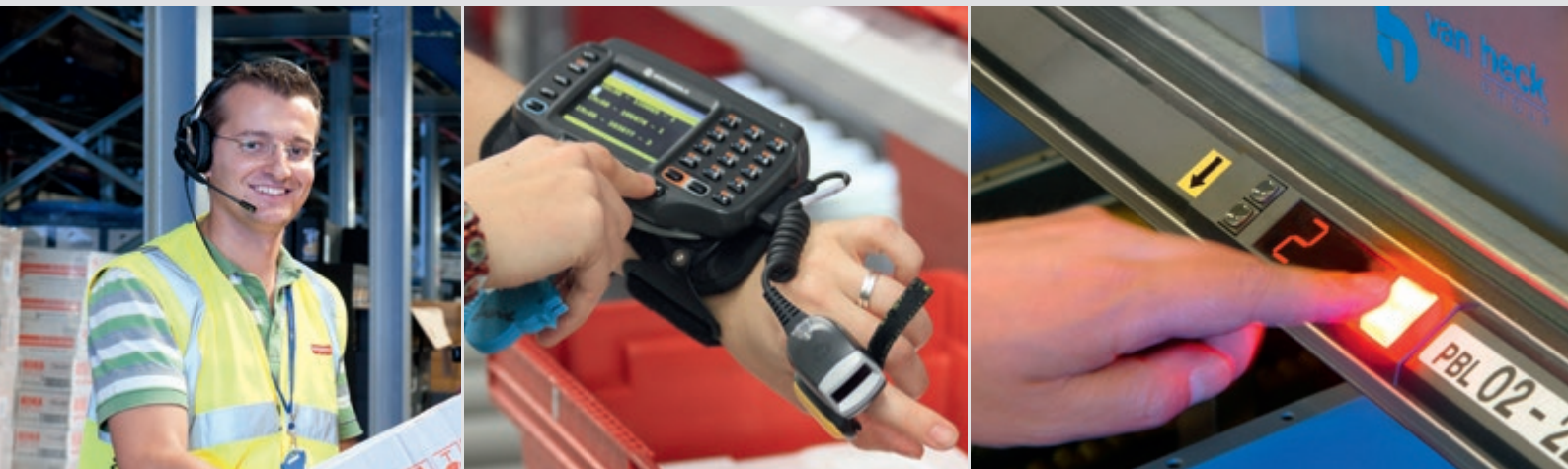
## Fully-automated order picking systems

SSI SCHAEFER developed the first fully automatic order picking cell that can be seamlessly integrated into existing storage architectures. The SSI Robo-Pick carries out more than 2,000 picks/h. With its unique characteristics, it is an ideal solution for major warehouses and the mail-order business. Innovative, two-stage image processing detects the position of the products on a tray and controls a universal order picking robot. The image processing cell identifies 4 to 6 applicable products “at a glance” and in less than one second.

With Schaefer Case Picking (SCP), SSI SCHAEFER offers a consistently fully automated concept for order picking tray-based product units for individual branches: This concept covers incoming goods, depalletizing, buffering, order picking, sequencing, and palletizing along with goods-out. Without additional, conventional labeling systems such as barcodes or transponders yet with numerous benefits that create fundamentally new perspectives to increase the efficiency and the economy of the entire logistics chain.







## Order picking

The coordinated combination of automation and manual work creates optimum economy in the order picking system. Modern, ergonomically designed technology serves to safeguard the order picking quality for semi-automated and paperless commissioning. This technology specifically guides employees and ensures rapid access times and reliable delivery quality. With the Mobile User Interface (UIM), SSI SCHAEFER provides wireless data applications, pick-by-light and voice-guided systems with hardware-independent user dialogs.



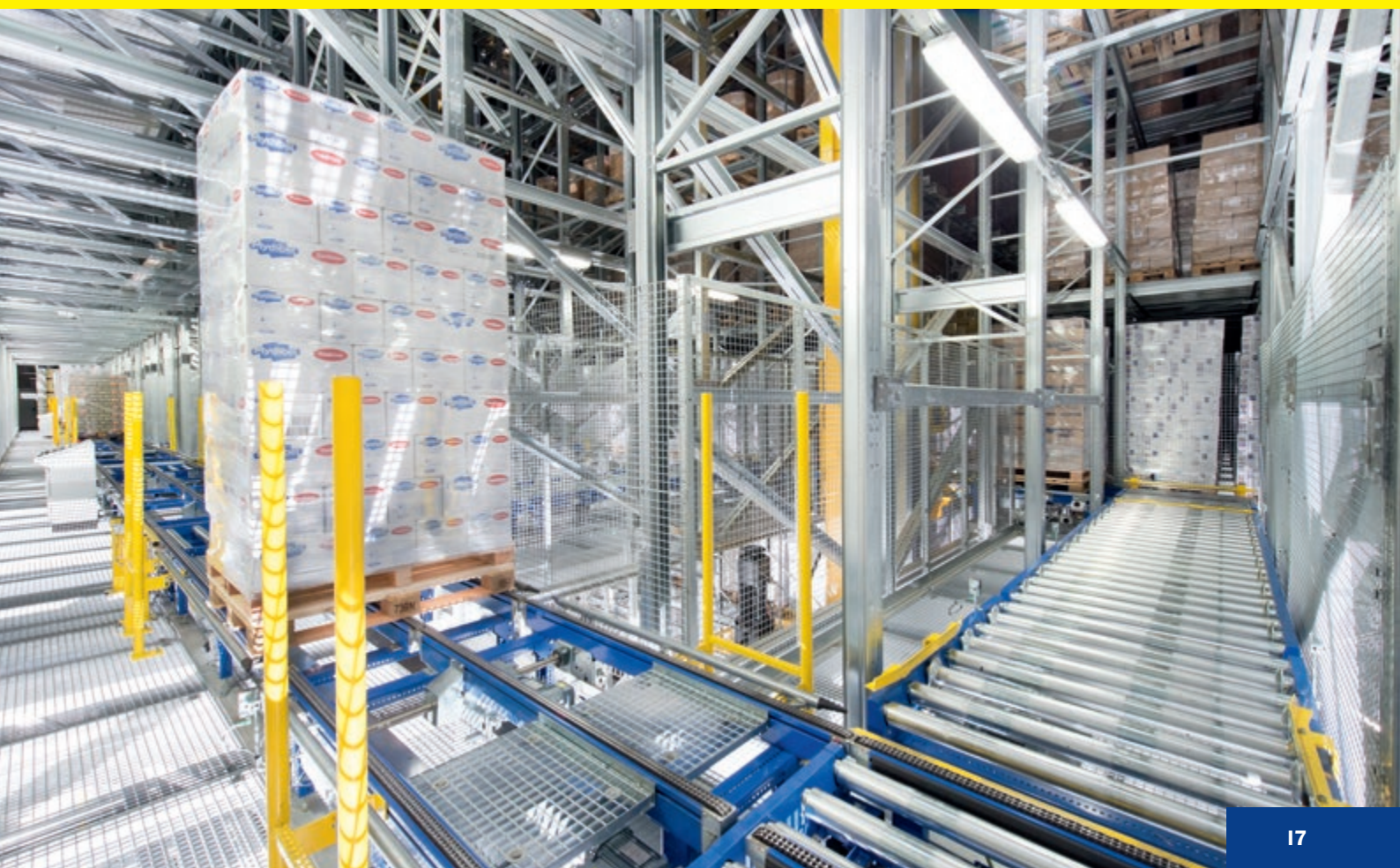




## Conveying and handling technology

Utilizing a diverse range of modular standard components that can be combined and scaled as needed, SSI SCHAEFER provides a comprehensive conveying and handling technology portfolio. This begins with conveying systems for containers and cardboard containers and also includes pallet conveyors as well as fully automated storage and retrieval devices for high bay racking systems.

The Fulfilment Factory is an innovative conveying and sorting system that merges the intralogistics processes for handling B2B and B2C orders into a single system concept. In addition, the Weasel® auto-guided transport system offers an innovative solution for in-house goods transport distinguished by flexibility, barrier-freedom and scalability.







## LogiMat® storage lift



The LogiMat storage lift from SSI SCHAEFER provides you with a warehouse and order picking solution in one. The storage lift is the ideal solution for all companies interested in a safe and ergonomic yet high performance system based around the “goods-to-person” principle.

The proven system features numerous functions. Three pre-configured option packages, numerous additional options and the groundbreaking WAMAS® logistics software expand the LogiMat's spectrum. This is a modular and scalable solution with an integrated safety concept and ergonomic design.

Simple and practical also define the selection of the partitioning accessories. SSI SCHAEFER offers the LMB contain a series as a supplement and for equipping standard trays. The plastic boxes are optimized for a tray depth of 800 mm and can also be divided up with additional dividers. This clever solution provides even higher storage density.

The combination of containers, hardware, control systems and software from SSI SCHAEFER offers you a coordinated overall concept for storing and order picking small parts.

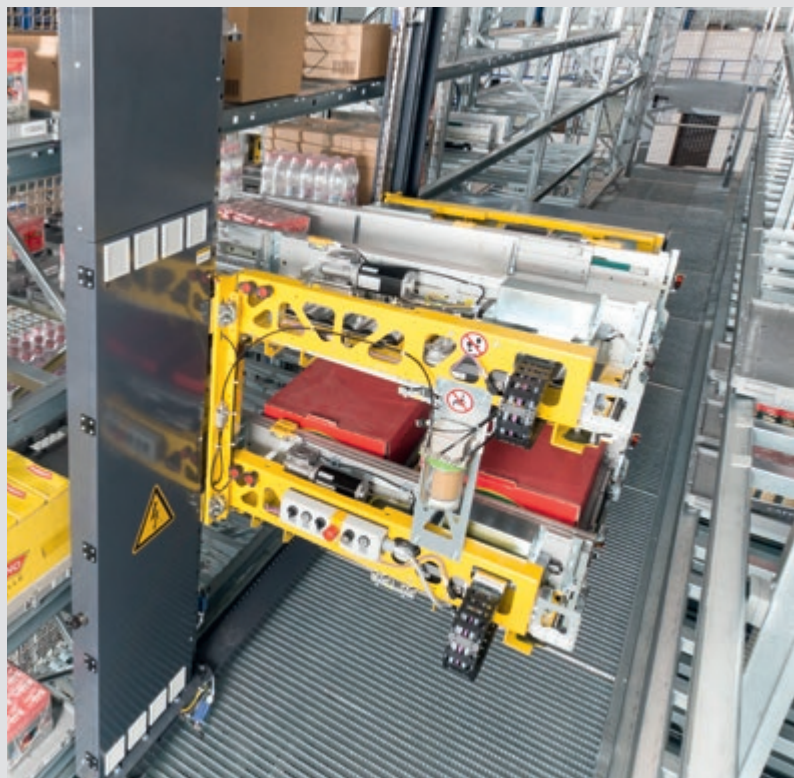




## Storage and retrieval devices

Automated storage and retrieval devices from SSI SCHAEFER are a critical element of a cost-optimized logistics chain. They can be exactly configured for specific task with the required performance, driving and elevation speeds, construction height and loads along with single or double boom designs. Wherever customers require optimized warehousing with rapid material transport ensure access times, we offer innovative storage and retrieval devices designed for the specific needs. These solutions ensure perfectly economic storage for every load carrier.

The Navette is the flexible, multi-level shuttle. With this shuttle system SSI SCHAEFER adds another technical cornerstone for enhancing the efficiency of warehousing and order picking for trays, containers and cartons in fully automated warehouses. The shuttle can be scaled to meet the customer's exact needs while the resulting overall system represents an innovative leap in development and technology.





## 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.





## Automated small part storage / mini-load® systems

Automated small part storages are an ideal solution for storing small articles. The automated storage and retrieval devices remove entire storage units full of small parts from the rack. These storage units are then transported to the corresponding order picking locations via conveying and handling technology. Miniload systems need to comply with extremely strict tolerances. As such, these racking systems demand the most precise production and assembly.

Miniload systems are extremely variable. We provide you with a vast range of design options depending on your unique logistics challenges.

- Single and multi-location storage
- Diverse storage depth options
- Variants with multiple vertical function levels and vertically arranged storage and retrieval devices
- Integration of flow storage locations

SSI SCHAEFER is one of the few automated miniload specialists that offers both the rack construction as well as the corresponding load carriers. All of the system variants can be implemented with or without the containers or trays as a lucrative product package. SSI SCHAEFER's large selection of automated miniload carriers is manufactured exclusively in-house and modified to meet your specific needs.





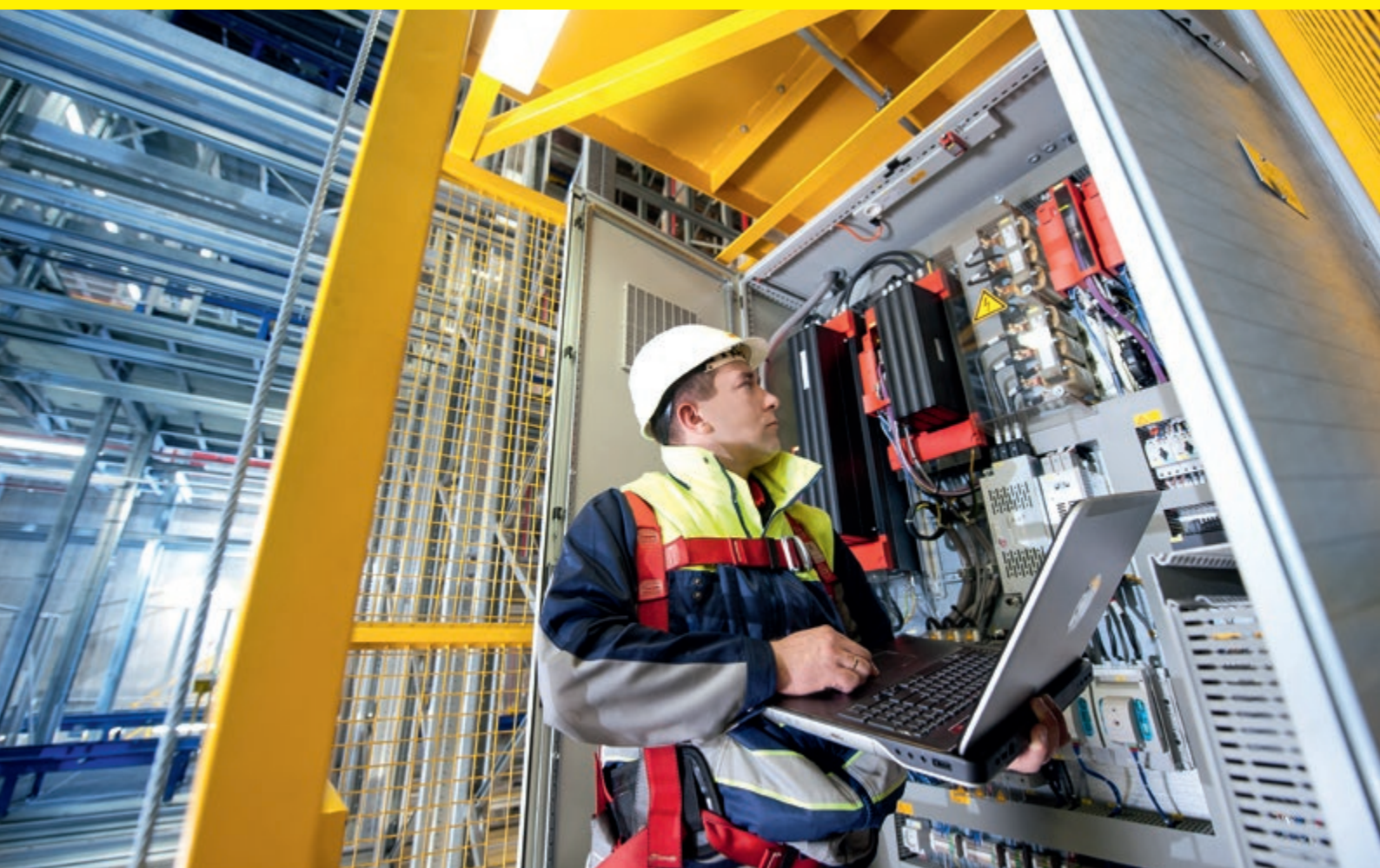
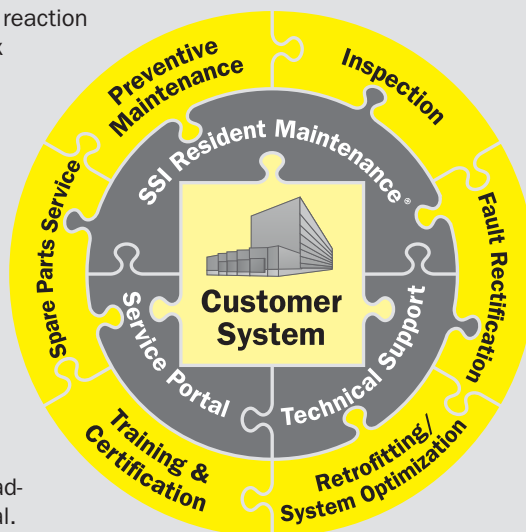
## Customer Service and Support (CSS) the way you want it

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

To help ensure that our customers operations are as efficient as possible, we offer a broad variety of support services. These range from support for mechatronic and software components and modernization options to a variety of preventative maintenance for fully automated logistics systems.

The CSS division handles every aspect of technical support, technician availability, help desks, system monitoring, inspection, and maintenance, on-site service, spare parts service as well as consulting and training.

Furthermore, there is rising demand for system improvements in the market. Retrofit projects are a rapid and cost-effective means of upgrading your logistics to a cutting-edge solution while remaining operational.







## Green Logistics

SSI SCHAEFER has long been one of Europe's leading companies distinguished by 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. The certifications by and support of diverse organizations reflect our ecological commitment.

Environmental protection is a key element of our corporate vision and the companies all of the business processes within the company. The broad service spectrum ranges from quiet conveying technology to energy-saving warehouse systems and innovative control engineering along with the design of ergonomically optimized work stations. For many products, such as the Exyz storage and retrieval device, energy efficiency is no longer an equipment option but rather a standard feature.

When the challenges of sustainable, environmentally friendly logistics are consistently integrated into the development of innovative solution concepts, process optimization can be economically combined with resource efficiency and the implementation of green logistics. SSI SCHAEFER's product portfolio harmonizes the demanding standards of green logistics with the economic requirements of modern business strategies. Investments that pay off.

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.

