

Solutions for Healthcare & Cosmetics

Automate processes,
guarantee security
and optimize supply capabilities

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SSI SCHÄFER



Prescribing Maximum Efficiency

Fragile products, complete documentation, and complex conditions place high demands on intralogistics operations for both manufacturers and distributors within the Healthcare & Cosmetics industry. Decreasing availability requires more frequent deliveries, even of smaller quantities. Quick delivery expectations, even when orders are submitted late, can increase pressure within the logistics chain.

In the Cosmetics industry, gentle handling of products often plays a crucial role. Packaging must not show any signs of damage or scratches whatsoever. Seasonal peaks as well as an increase in omnichannel selling and distribution must be covered. The Healthcare industry expects maximum reliability, security, and extremely high picking performance at peak times.

Intralogistics challenges:

- High quality customer requirements with zero-error tolerance
- Order peaks caused by multiple orders per day
- Diversity in product shapes puts high demands on the handling process
- Differentiation between OTC and prescription goods
- Complete traceability for quality assurance and security
- Validation and certification of software solutions (GDP, GMP)
- Integration of value-added services
- Batch picking and sorting for mail-order pharmacies



SSI SCHAEFER draws on a wealth of expertise and technologies for the continuous supply of products in the Healthcare & Cosmetics industry. Our systems, whether manual, semi-, or fully automated, will adapt flexibly to your increasing requirements.

Solutions from SSI SCHAEFER

- Manual, semi-automated, and fully automated picking systems
- High-quality bins and trays
- Intelligent racking systems, such as static racks or flow racks
- Wide range of products for goods-to-person systems
- Product and order verification using the SSI Product Identification
- Handling systems for a fast and efficient material flow
- Automated guided vehicles (AGV) and robots for both picking and palletizing
- Serial number tracking through automatic data recording of each individual item
- Continuous inventory control and expiration date checking with automatic early detection when expiration date is approaching
- WAMAS and SAP software solutions for manual, semi-automated, or fully automated warehouses

SSI SCHAEFER – Because Quality is the Best Remedy

Future-proof logistics solutions should integrate seamlessly into your individual processes, be modular and upgradeable, and adapt flexibly to new conditions. For this, you need specialists who think in terms of systems rather than individual services.



All-in-one solutions from a single source

Our wide range of products and services forms the basis of industry-specific solutions that we can tailor to your needs. With such a portfolio, our experts can provide bespoke solutions that cover all areas of your internal material flow. Our customers benefit from the fact that we make all of the SSI SCHAEFER Group's components ourselves. Having more than 8,600 employees globally makes us a strong and reliable partner.

At SSI SCHAEFER, holistic thinking has been the key to our success for many decades. As a global general contractor, we implement complete logistics systems. Our team of consultants provide comprehensive system planning and project management services, which are certified by the International Project Management Association (IPMA). This approach enables us to provide turn-key systems with tailored service and maintenance packages. Upon request, we can also plan and build your project with our in-house construction department.

Specialists for the Healthcare & Cosmetics industry

The market sector for pharmaceutical and cosmetic products places stringent quality demands on intralogistics operations. All processes must be controlled and transparent, while quick but error-free delivery is required. SSI SCHAEFER has assembled a team of experts to meet the intralogistics challenges of the Healthcare & Cosmetics industry.

Our team of experts develops solutions that support future growth for pharmaceutical distributors, cosmetics manufacturers, drugstores and mail-order pharmacies. An SSI SCHAEFER system can support both traditional wholesale distribution systems to omnichannel logistics solutions that fully support fast-paced e-commerce requirements. The results are precisely tailored solutions for all industry-specific applications. Whatever the size of your project, you can count on the experience of SSI SCHAEFER to implement a scalable and modular solution. Plus, SSI SCHAEFER intralogistics will fit seamlessly into your current processes.

Dedication and commitment

If you know anything about SSI SCHAEFER, you will be aware that we put our customers at the center of everything we do.

This includes the obligation:

- to always provide the optimum solution
- to always be there for our customers
- to always keep our word

You can expect us to be fully dedicated to your concerns. Whether it be the devotion that our employees give to developing new solutions or the all round service we ensure during the life cycle of your systems, we will always be by your side, no matter where you are in the world. As a family company, we always think of the future and plan for the long term.





Optimized Flow of Goods Through Automation

Complete traceability, a zero-error rate, and punctual delivery

These requirements must be strictly adhered, even when it comes to safely picking and delivering smaller volumes of goods several times a day. Only an automated storage and picking solution can handle this type of scale cost-effectively and efficiently. Automated storage and picking systems ensure a high throughput

of goods in a very short time period and adapt as orders increase. Modular, expandable systems, such as installed pharmaceutical systems by SSI SCHAEFER are the answer to an increasing number of challenges within the industry.

A-Frame: High picking performance for fast-moving products



The A-Frame from SSI SCHAEFER performs complex order consolidations automatically, reliably, and as quickly as possible. It is particularly suitable for picking small packaging units without errors. Thanks to a sophisticated system with both straight and inclined product channels, the throughput of fast and medium movers is increased dramatically.

Replenishment and picking occur separately. To optimize workforce utilization, replenishment is performed by employees during off-peak hours. Picking is done fully automatically during peak hours.



"The A-Frame provides reliable, fully automatic picking for a large number of products, vastly increasing our efficiency. We're extremely satisfied with this solution from SSI SCHAEFER."

Pär Svärdson
CEO Apotea

Apotea: Maximum efficiency through A-Frame picking system

With an inventory of over 40,000 items and a capacity of up to 100,000 orders per day, Apotea is one of the fastest-growing online pharmacies and was recently named Sweden's most popular e-commerce store.

Apotea's first step into automating their warehouse in Morgongåva came with the first A-Frame that was implemented by SSI SCHAEFER in 2019, since then multiple extensions have been added with additional A-Frame modules and other picking capabilities. The latest and largest expansion step was made in the end of 2023 where SSI SCHAEFER implemented a new system doubling the performance of the entire Morgongåva warehouse. The core of the system is still the A-Frame picking system, which alone processes up to 70 percent of all orders.

SSI Piece Picking: Next-Generation Picking Robots



SSI Piece Picking enables fully automated piece picking. It is used where individual pieces in the small parts area have to be picked and highest precision is required. This versatile solution, which includes a dedicated smart software, boasts advanced functions such as pick-and-place, object recognition using artificial intelligence (AI), a patented gripping point determination, and extremely gentle product handling.

However, the SSI Piece Picking solution shows its full potential especially in the Healthcare & Cosmetics industry, where gentle handling and error-free picking are of utmost importance. In the pharmaceutical sector, it can already cover 80% of the product spectrum, including various packaging shapes such as cubic, cylindrical, tubular and blister packaging. The product range is continuously being expanded to support even more formats.

100% order verification for North American retail pharmacy

SSI SCHAEFER implemented a highly innovative material handling solution to ensure 100% accuracy in prescription and order fulfillment. The retail pharmacy needed not only a flawless picking solution, but also an automated solution that would work with limited personnel even during peak volumes. The stringent logistics requirements were optimized and implemented with a combination of proven storage and picking systems with state-of-the-art robotics and data capture technology. The entire system is controlled and administered by the WAMAS logistics software, while the central information platform for automated warehouses, WAMAS Control Center, is making operating processes transparent and visible.

Advantages

- Holistic solution for maximum performance
- 100 % verification and highest quality to ensure patient safety
- Fast and constant availability of medicine

Holistic Concepts for Maximum Performance and Process Security

Fragile goods require logistics solutions that guarantee safe handling and adapt to new types of packaging.

The SSI SCHAEFER solution is an intelligent combination of different storage and picking systems. Modular in design, each system is enhanced with specific solutions to address both pharmaceutical and cosmetic industry challenges. SSI SCHAEFER approaches each project with a holistic view when designing a system. Drugs from various temperature areas, fragile cosmetics in high-quality packaging, or toiletries stored on pallets - SSI SCHAEFER can achieve a significant increase in performance with maximum process security.

Nahdi Medical Company: Middle East's first smart pharmaceutical distribution center

In March 2022, Nahdi Medical Company (Nahdi) launched its state-of-the-art fully automated pharmaceutical distribution center (IMDAD) to support its supply chain and logistics network. The advanced facility is capable of handling 200 million units of SKUs per year with temperature-controlled systems and automated fulfillment.

The SSI Cuby storage system is designed to accommodate different types of medications and other medical items - highly sensitive and flammable products are located in specific storage areas. Shuttling the totes within this double-deep storage system, the SSI Cuby finds the correct items quickly and delivers them to three ergonomically designed goods-to-person work stations. SSI SCHAEFER's channel storage system SSI ORBITER® provides high-density storage capacity for 37,000 goods-to-person pallets with specific picking tunnels. This system is especially useful for big and bulky items.

SSI SCHAEFER's proprietary logistics software WAMAS is the perfect fit for Nahdi's software landscape. The seamless integration into their intralogistics structure provides an overview of the entire warehouse material flow, optimizes transport paths and reduces the picking travel time. The monitoring software WAMAS Control Center enables the visibility of the material flow and therefore secures seamless tracking and tracing of the increasing variety of pharmaceutical products.



"We chose SSI SCHAEFER because of their right profile for design and consultancy with extensive experience of over 18,000 project references within the pharmaceutical industry."

Eng. Abdelwahid H. Ahmed

Senior Supply Chain Excellence Department Manager
Nahdi Medical Company

SSI Cuby: Unbeatable performance with maximum storage density

The SSI Cuby is a single-level shuttle system ideal for the fully automated storage of bins and cartons weighing up to 35 kg. This highly efficient system guarantees high storage availability that is energy efficient with an attractive price. A scalable lift system with a two-tier function ensures a high performance, an optimized material flow, and compact system layouts.

Unique integration of storage and picking technologies at Symbion

Symbion is a wholly-owned subsidiary of the EBOS Group Limited, a large and diversified Australasian wholesaler of healthcare, medical and pharmaceutical products. SSI SCHAEFER implemented a solution in Brisbane that met all of Symbion's needs.

The facility includes the single-level shuttle system SSI Cuby arranged in the patented 3D-MATRIX Solution® as well as the high-performance, ergonomically-optimized goods-to-person Advanced Pick Station two-level. Additionally, the facility incorporates an A-Frame, various handling machines, WEASEL® automated guided vehicles and WAMAS logistics software. To provide optimal system performance, Symbion has opted for SSI SCHAEFER's Resident Maintenance module. Due to the automation and efficiency of the system, the time between order receipt and shipment can be regularly as short as 45 minutes, and the system processes 9,000 orders a day.



"Scalability and flexibility is a key part of the design process and the way we lay it out does anticipate the future needs of the business. One of the key benefits for us is that we can do a number of roles from a single technology. We have access to all the products that we can call out in any sequence at very high speeds."

Simon Bunde, Executive General Manager,
Strategic Operations & Innovation EBOS Group Limited



SSI Product Identification: Digitalize and Sort in a Single Process

Ensuring batch and serial number identification is essential, particularly within the Healthcare & Cosmetics industry. Efficient implementation of the statutory provisions of tracking & tracing increases patient safety, but also gives a competitive edge while competing in the market.

We offer a variety of solutions for intelligent product identification and precise picking. An intelligent image processing system is used to identify, document, and sort items. The integrated scanner reads 1D and 2D bar codes from six sides for an effective item identification process.

Advantages

- Traceable and error-free picking
- Batch or serial number detection
- Automated check processes
- Easy integration into existing warehouses





Get automatic quality assurance with the Order Verifier

With the Order Verifier, manually handed in articles of an already picked customer order are identified, counted, checked, verified, and documented in a single step - regardless whether the article is cubic or cylindrical, packaged in a blister pack, tube, or bag. With a technical performance of up to 3,000 items per hour, the system has proven itself to be a reliable check solution, reducing costly manual check processes.

Scalable Solutions for E-Commerce and Omnichannel Logistics

Due to the increasing boom in online business, suppliers in the pharmaceutical and cosmetics sector face the task of adapting their intralogistics to the growing volume of orders in e-commerce while dealing with the need to strengthen their responsiveness in fragile, highly competitive markets at the same time.

A major challenge here is to find suitable intralogistics systems that can also be used to cover issues such as legal requirements for prescription drugs, traceability, adequate packaging and gentle product handling as well as the processing of ready-picked orders. Due to click-and-collect, same-day delivery and classic order peaks in the cosmetics sector such as Black Friday, Valentine's Day etc. adherence to on-time delivery increases.

Depending on the order volume and degree of automation, SSI SCHAEFER offers individual intralogistics solutions, such as:

- Manual rack systems with Pick by Light, batch process (low automation)
- A-Frame, automated guided vehicles (AGV), small sorter solutions (medium automation)
- Shuttle solutions, SSI Piece Picking robots, logistics software WAMAS, automated shipping preparation (high automation)

SSI SCHAEFER supports you as an intralogistics partner with many years of experience, by offering modular, scalable and sustainable solutions and services for your specific e-commerce and omnichannel requirements.

Highly automated e-commerce warehouse for Sweden's largest online pharmacy Apotea



In order to be able to process up to 50,000 more orders a day, a new warehouse is being built in Varberg for Apotea with the target to reduce the delivery times to the southwest of Sweden.

An SSI Cuby shuttle warehouse with around 87,000 storage locations and an automated small parts warehouse with almost 45,000 storage locations will ensure high availability and throughputs as well as optimum use of space. Automatic picking using A-Frame systems and piece-picking robots will maximize productivity.

For the ergonomic and gentle handling of non-throwable items, Advanced Pick Stations one-level will be integrated - this reduces picking errors to almost zero, and parallel picking into four order bins is possible without any problems. Discrete picking allows all orders to be picked directly into the shipping cartons, automatically reduced in volume, sealed, labelled, and sent to goods-out.

At the heart of the system will be the WAMAS Warehouse Control System (WCS) logistics software, which provides optimum support for a wide range of picking scenarios. Moreover, the WAMAS Control Center can be used to monitor and control all processes - enabling warehouse management at the highest level.

Rossmann: Expandable system for e-commerce and store delivery

To manage the enormous quantity of SKUs and to be able to service both the stores and e-commerce, a 27,000m² semi-automated warehouse is being built for Rossmann in Üllő, Hungary. The core elements of efficient Pick by Light picking, ergonomic work stations and comprehensive conveying systems connect all sections from goods-in to goods-out.

The Rossmann logo, featuring the word "ROSSMANN" in a bold, red, sans-serif font with a red circular icon containing a white cross to the left of the text.

"The new omnichannel warehouse optimizes our processes and enables even higher throughputs, especially at peak times. This way, we can supply 250 stores a day, and efficiently process the increasing amount of e-commerce orders."

Csaba Szuchy
Director of Operations Logistics Rossmann Hungary

Scalable, innovative, and flexible e-commerce warehouse for Dr. Max



The Dr. Max Group is one of Europe's leading pharmaceutical chains. With the aim to ensure the fastest possible delivery to end customers throughout Italy, Dr. Max decided to build a warehouse in Telgate specializing in pharmaceutical and cosmetics e-commerce fulfillment.

Dr. Max chose SSI SCHAEFER as the general contractor and Geekplus as robot technology partner, combining maximum logistics expertise in the new warehouse to create a unique, high-level solution.

SSI SCHAEFER developed a customized end-to-end concept for Dr. Max and implemented it in practice within a matter of weeks. From automatic order start and picking directly into cartons to automated shipping preparation, including volume reduction and carton sealing, the integration of a wide range of components meets all the requirements of high-performance e-commerce fulfillment.

In addition to conveying systems, handling systems and other hardware, the software for controlling all components and processes in the new warehouse also comes from the intralogistics expert.

The overall concept has not only convinced Dr. Max in Italy - SSI SCHAEFER and Geekplus have already implemented their smart logistics solution in several of the pharmaceutical chain's European sites to the customer's complete satisfaction.

Software Solutions: The Driving Force for Consistently Synchronized Processes

WAMAS logistics software

Our WAMAS logistics software guarantees intelligent solutions for the challenges of today and tomorrow. WAMAS encompasses around 30 years of expertise in the development and implementation of sustainable and scalable intralogistics solutions.

The logistics software can be seamlessly integrated into ERP systems, creating the perfect prerequisites for efficient control of all the logistics processes - from customer order to the PLC and mobile end

devices in manual areas. The software grows with your requirements, supporting your company through any and all expansions.

Proven SAP competence

As a system provider, we are your trusted partner for the selection, implementation, ongoing maintenance and further development of SAP logistics solutions. Our broad range of consulting and implementation expertise is reflected in numerous international projects.

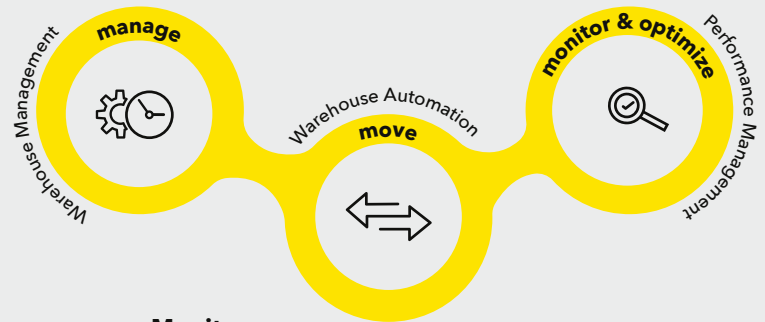


Manage

The state-of-the-art software controls and optimizes manual or highly complex automated processes based on the current daily orders.

Move

Whether forklift transportation, conveyor technology, shuttles or AGV - WAMAS integrates all components into a high-performance overall system.



Monitor

The central information platform WAMAS Control Center provides insights into warehouse operations in real time and constantly shows potential areas for improvement.

Optimize Processes and Save Costs: More Power Through Modernization

Just as some traditional treatments or remedies are making a comeback thanks to modern research, your warehouse performance can be increased considerably using new storage technologies and software releases.

Technology updates streamline warehouse and picking processes and reduces costs. This includes also updates to previous investments. It does not matter if you purchased an installation from us or from another provider. We analyze your logistical situation together with you to increase sustainable performance and profitability. With our years of expertise, we advise you on areas for optimization and recommend customized solutions.

After preparing a return on investment analysis, we offer you:

- Optimization of organizational and warehouse processes
- Implementation of new picking methods
- Expansion to new warehouse areas
- Extension/modernization of mechanics, electrical engineering, control
- Software and hardware upgrading

Innovative Service Portfolio for Maximum Availability of all Systems

Once your system has been successfully commissioned, our experts will continue to support you. Our comprehensive service portfolio offers customized solutions for all requirements.

Preventive Services

- Maintenance
- Inspection
- Safety Inspection
- Rack Inspection
- Training and Certification
- System Monitoring
- System Security

Reactive Services

- 24/7 Technical Support
- Call Out Support
- SSI Augmented Support

Life Cycle Management

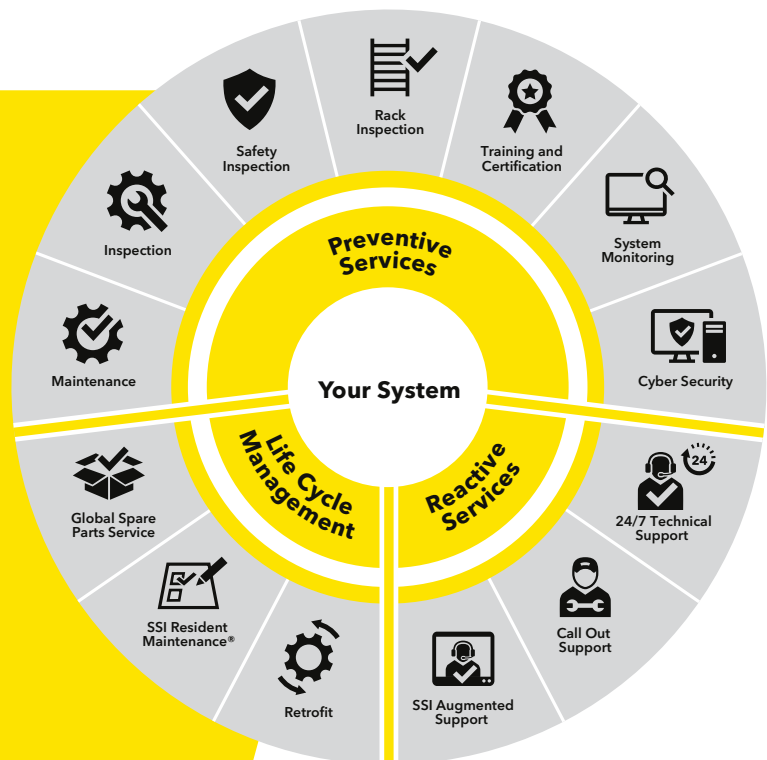
- Retrofit
- SSI Resident Maintenance®
- Global Spare Parts Service

SSI SCHAEFER Maintenance Philosophy (SMP)

With our improved SSI Resident Maintenance® solution, we offer our customers "more than just service".

The SSI SCHAEFER Maintenance Philosophy is based on three core elements:

- Expert employees (SSI Resident Maintenance Team)
- Best-practice processes for technical maintenance and repair work
- Integrated service tools and systems



Six Reasons for Choosing SSI SCHAEFER

■ **Stability**

As a financially independent family business, SSI SCHAEFER is committed to long-term solutions. You can trust that our team of experts will be there for you today, tomorrow and in years to come.

■ **Efficiency**

SSI SCHAEFER solutions are scalable and able to grow with your business. You can always upgrade or retrofit.

■ **Quality**

As a systems specialist and original equipment manufacturer, SSI SCHAEFER provides tailor-made and high-quality solutions from a single source, specifically designed to meet your challenges.

■ **Reliability**

Thanks to our worldwide Customer Service & Support network, SSI SCHAEFER ensures smooth operation of your system, both during and after installation.

■ **Know-how**

SSI SCHAEFER solutions are always up-to-date with the latest technological standards and can be easily integrated into an existing (IT) landscape.

■ **Internationality**

As a global organization, SSI SCHAEFER has local offices worldwide. With approx. 80 operating companies our team of experts speaks your language.

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