

AUTOMATED SYSTEMS

by the SSI SCHAEFER Group



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With its international headquarters located in Neunkirchen, Germany, SSI SCHAEFER / FRITZ SCHAEFER GMBH primarily targets **components for automated warehousing** – the manufacturing of steel racks for miniloads and rack-supported buildings. SSI SCHAEFER's extensive product line also includes a wide range of storage and transport containers, pallet racks, tote shelving, mobile racks, mezzanines and much more.



SSI SCHAEFER NOELL GMBH in Giebelstadt, Germany designs and implements integrated logistics systems. Acting as **general contractor**, SSI SCHAEFER NOELL has completed over 300 systems world-wide. The range goes from consulting and system planning to the implementation of turnkey systems and customised after-sales services.



SSI SCHAEFER PEEM GMBH in Graz, Austria focuses on modular **picking technology**. SSI SCHAEFER PEEM plans, develops and manufactures highly dynamic conveyor systems for totes and cardboard boxes as well as automated order picking systems. The scope of business ranges from standard conveyor systems to automatic tray handling systems to facilities with robotics as well as automated quality checks of prepacked order.



Acting as general contractor, SALOMON AUTOMATION GMBH, Friesach near Graz implements customised **complete solutions** for all types of warehouse systems – fully automatic and manual ones. SALOMON AUTOMATION GMBH supports its customers along the entire life cycle – from problem solving to the selection of optimal IT and warehouse technology infra-structure up to the training of warehouse employees to handling the software and the systems. Customised service ensures operating reliability and highest availability.



SSI SCHAEFER's **production plant** in Hranice, Czech Republic: All products for automation – storage and retrieval machines, pallet conveyor systems and the Schaefer Carousel System (SCS) are manufactured, pre-tested and supplied to the construction sites.

Details and the Whole – Advantages of a Group

SSI SCHAEFER's automation division ranks among the leading experts for planning, design and implementation of efficient intra-logistics systems. With an extensive, market-oriented product range we generate individually tailored logistics solutions.

This enables us to assure optimum efficiency and profitability for our customers' individual business processes. In addition the compatibility of system components offers extensive flexibility and lays the groundwork for future expansions using the latest technology – ranging from single systems to complex installations.

The support, expertise, synergy and innovation under SSI SCHAEFER's umbrella brand name offer the complete range from one source – reliability and availability for state-of-the-art systems, fast project implementation, including general contracting and lasting value for long-term investments.

Products developed, designed and manufactured by SSI SCHAEFER provide the basis for logistics solutions. In every phase of a project this facilitates efficiency and flexibility, focusing on specific customer needs – anywhere in the world.

Our services:

- General contracting
- Planning and consulting
- Project management
- IT and automation systems
- Control systems
- Steel construction and racking systems
- Highly-dynamic order picking systems
- Storage and retrieval machines for small parts, pallets /containers etc.
- Conveyor systems for pallets, totes, cardboard boxes and trays
- Tote handling systems
- Paperless order picking systems
- Sorting and shipping systems
- Upgrading and modifying systems (Retrofit)
- Service and maintenance

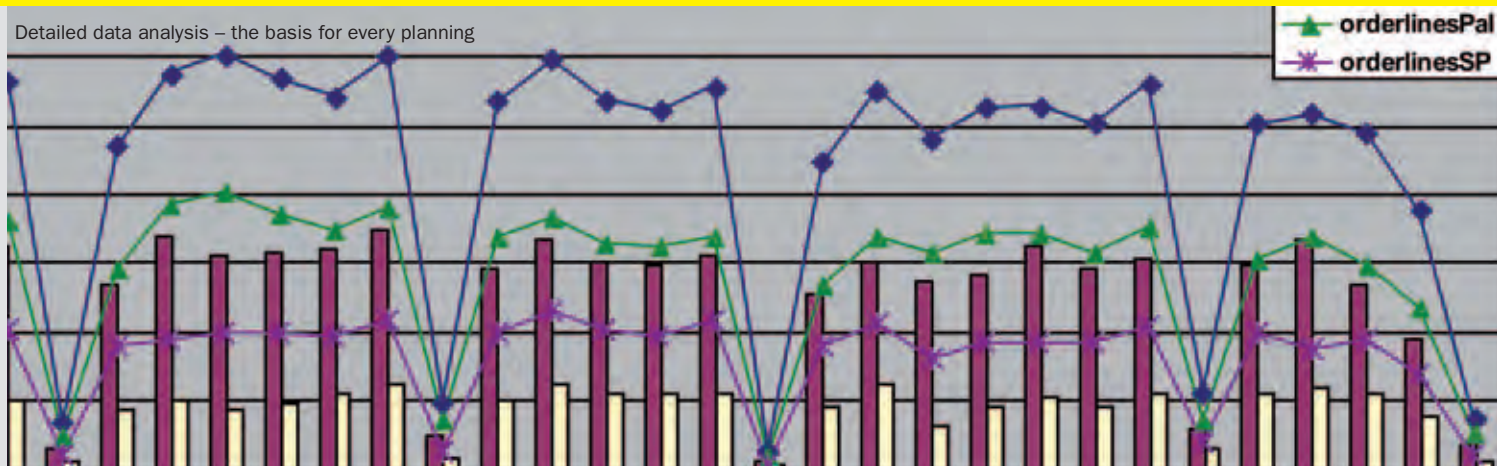
Your advantages: We increase your efficiency. Worldwide.

- Know-how transfer
- Short reaction times
- Highest quality standards due to our own production facilities
- Worldwide availability
- Long-term warranty for all services and products
- Maximum profitability due to optimised planning and short implementation times

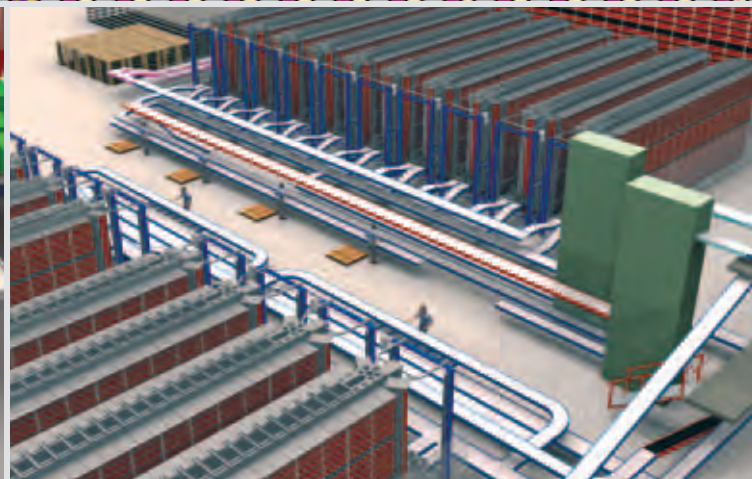




Detailed data analysis – the basis for every planning



Animation in 3D-model



Animation in 3D-model

Creativity, Know-how and Vision – Planning Logistics

Together we plan your future.

Efficient logistics processes are the basis for economic success. Let our specialists do the planning for you.

With the know-how and experience acquired by completing a few hundred projects worldwide for leading logistics service providers and well-known businesses in all industrial sectors – SSI SCHAEFER delivers the essential:

Innovative ideas and concepts as well as reliable components for integrated solutions of complex logistics management applications.

By involving the customer from early on we plan projects together, starting with the system layout up to the distribution systems for specific materials and work flows. Process analysis, simulation studies and profitability calculations not only confirm the economies of scale of the proposed solutions but also show the future growth potential for our customer's business.

Solutions all from one source.

Our tools:

Plant

■ Data evaluation

Plant Simulation

■ Simulation

Auto Cad / Inventor

■ 2D/3D Layout

3D Studio Max

■ 3D Animation

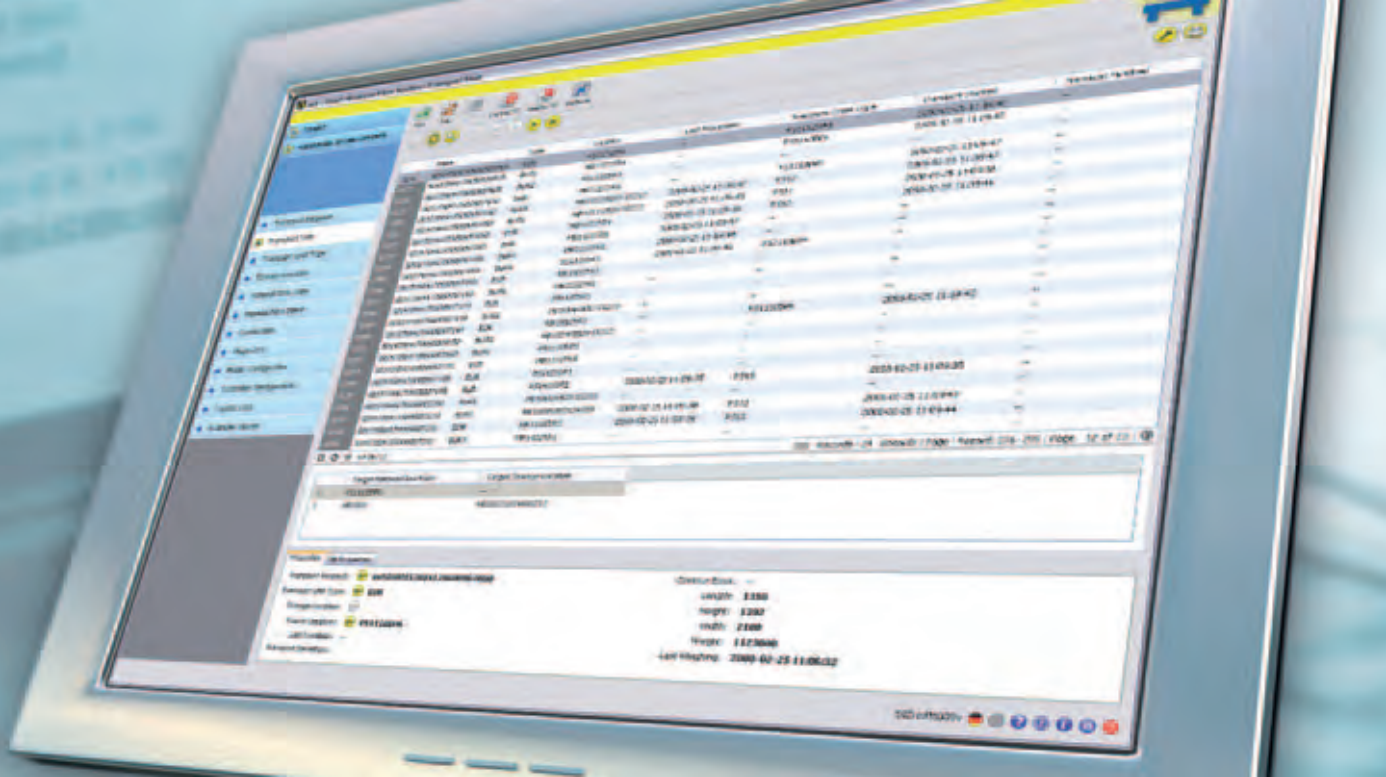


Automation Technology

As little automation as possible, as much automation as necessary. To implement this golden rule of intra-logistics continuous availability and reliability of all system components is necessary. Using software automation results in a coordinated process flow and reliability even during continuous operation. The use of the latest electro- and control engineering incorporates the implementation of efficient transport and conveyor processes and assures the compatibility of all components with the conveyor system.

With the help of comprehensive, mostly self-explanatory visualisation tools, the material flow system displays the degree of utilisation of all system components, based on the detail needed. With one glance the processes in receiving-order picking, goods replenishment or dispatch can be registered – and if necessary, early intervention can be initiated.





Customised IT

With its Warehouse Management Systems WAMAS and SAP EWM SSI SCHAEFER provides the information technology basis for continuous transparency and reliable, efficient control of all operative processes for warehouse management and distribution.

The modern, interbranch system architecture and its consequent user-orientation are reflected in the modular design of the system and the diversity of the user-interfaces. The broad spectrum of existing operating interfaces, the control of a wide range of different picking-systems in manual (Pick-by-Light, RF-picking, Pick-to-Voice) as well as in automatic areas (Schaefer Case Picking, MERCURY, goods-to-man picking, SSI Robo-Pick and A-Frame) ensure that an adequate solution is available for each task.

The standardised system is based on the extensive experience of SSI SCHAEFER combined with the processes of evolutionary software development. Adaption to individual customer needs is flexible and accomplished via an inter-active and incremental approach.

The system contains many recognised logistics processes – for example goods receipt, storage location optimisation, replenishment of supplies, order picking, packaging and dispatch – and offers maximum integration capability into the customer-specific IT-scenery. Due to the scalability and adaptability the customer receives a precisely tailored solution based on a standard system. This is true for a small warehouse or a complex distribution center.



The Family of Storage and Retrieval Machines – Maximum Efficiency for Pallets, Trays and Totes



Automatic storage and retrieval machines by SSI SCHAEFER are an important component of a cost-effective logistics chain. Where optimised warehousing with quick transport of material and short access times is required, we offer innovative storage and retrieval machines that are based on customer requirements and therefore perfect the economic side of warehousing.

Through minimal energy consumption the environment is conserved and the cost of maintenance reduced. Our own production line guarantees constant quality and ultimate reliability of our products

Storage and Retrieval Machines for Pallets

Where optimised pallet storage with fast material transport and short access time is required, automatic storage and retrieval machines are the answer. They handle storage and retrieval operations in high-bay warehouses and move products to transfer stations.

SSI SCHAEFER offers a wide spectrum of standard devices that can be adapted as single or double mast units based on capacities, travel and lifting speeds, installation height and load based on requirement and application to meet the exact needs of the customer. Compact assembly groups and pre-tested storage and retrieval machines guarantee short assembly times. Proven, high-quality machine parts result in comfortable maintenance schedules. Intelligent control routines furthermore provide low-wear and energy-efficient warehouse operation.

Further models with dedicated load handling devices, multiple load pick-up, equipment for utilisation in a deep-freeze environment, turning devices with aisle-change-bridges, flexible drive concepts as well as redundant configuration with several storage and retrieval machines per aisle are available.



Storage and Retrieval Machines for the Small-Parts Logistics

Storage and Retrieval Machines for Pallets

- High-bay warehouse SRM
- Schaefer Compact Crane (SCC)

Storage and Retrieval Machines for Totes

- Schaefer Miniload Crane (SMC)
- Schaefer Quad System (SQS)

Storage and Retrieval Machines for Trays

- Schaefer Tray System (STS)

Nominal space requirement at minimal access times, flexible links to other storage systems and modularity of our time-tested systems are the basis for efficient, automated storage logistics for totes, trays and cardboard boxes. From racking and conveyor systems to order picking strategies, we design and implement customised solutions that can be adapted to customer specific requirements, down to the smallest detail.

Our innovative logistics solutions like the Schaefer Carousel System (SCS), the Schaefer Quad System (SQS) and the Miniload (automated small parts storage system) were especially designed to meet the requirements of highly dynamic logistics processes and warehouses – and are more than just a complement to our extensive pallet of classic system components.

With the Schaefer Miniload Crane (SMC), SSI SCHAEFER covers all areas of storage automation for totes, boxes and trays and describes the ideal solution for maximum utilisation of the vertical storage direction at simultaneously low base. By using boxes, trays or totes as storage aids, there is virtually no limit in shape or surface of the goods that can be stored or buffered.

The Schaefer Tray System (STS) is a system used to store and process trays.

By grouping several STS-vehicles on top of each other, the warehouse can be used very efficiently and high throughputs can be achieved. Typically trays are not directly transferred from the conveyor system to the STS-vehicle, but are allocated at transfer positions via STS-lifts in the rack. That way, this warehousing system can be used very dynamically, highly available and efficient through the strategic arrangement of individual components which is reflected in the high throughput performance. Unlike with conventional storage and retrieval machines, no forks are used under the trays but trays are moved using a gripping and extracting device which yields respective time-advantages for the system. This furthermore leads to minimal clearances in the rack as running under or lateral running-in is not necessary at the load handling device on the STS.

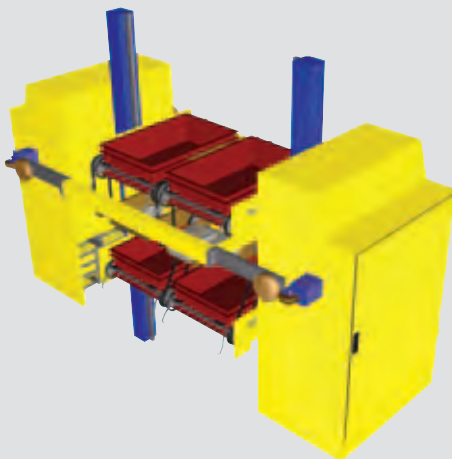
The STS-vehicle is delivered in a solid transport aid made of steel which guarantees safe transport while ideally utilising the space available. While the STS achieves its high load change velocity by the special design of a load pick-up of two trays, the SQS offers a load pick-up of 4 totes simultaneously in the tote order-picking.

Tested systems and innovative solutions for small-parts logistics.





High Density Dynamics – the SQS



With the Schaefer Quad System (SQS), SSI SCHAEFER has developed a warehousing system for **highly-dynamic tote processing**. The system is based on the goods-to-man principle and is designed for use as an intermediate or dispatch buffer for high performance order picking in an automatic Miniload.

The SQS is used wherever space is limited and high performance processes need a large number of standard totes in the shortest time possible.

Speciality: Through the special design with **four load handling devices per shuttle vehicle**, a very high load change velocity and the abandonment of telescopic movement, the SQS offers a five-to-ten times higher throughput than conventional storage and retrieval machines (SRM). The system stands for maximum dynamics using minimal space.

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Superior Performance – the SCS

The Schaefer Carousel System (SCS) stands for **high-speed order-picking with minimal use of space** using the goods-to-man principle. Up to 1,000 picks per hour, 50 per cent higher storage density and a modular system concept make the SCS an intelligent solution for dynamic order picking at high proficiency and profitability levels.

Precise operator guidance confirms, directs and controls each transaction, resulting in zero-error-picking. The connection of high-capacity conveyors and the latest control technology also provide high storage and retrieval frequencies.

Result: fatigue free operation, continued high throughput and quick, economic order compilation – and less than merely one sixth of the energy consumption of conventional systems.

A standard module consists of four rotating carousels with one decoupled automatic stocking and picking unit each. Space saving shelf arrangement results in capacity of up to 6,000 totes with a standard 4 carousel system. Like building blocks the units can be combined, allowing them to be scaled to a specific project.





SCP

Schaefer Case Picking

What is SCP?

SCP is an integrated concept for fully automatic depalletising of manufacturers pallets, buffering, order picking and mixed palletising.

Design of the SCP

- Handling of product layers of the manufacturer pallets on trays
- Intermediate storage of the layers in a highly-dynamic tray buffer
- Retrieval of the trays and automatic sequencing by store planogram
- Automatic palletising and securing of the pallets

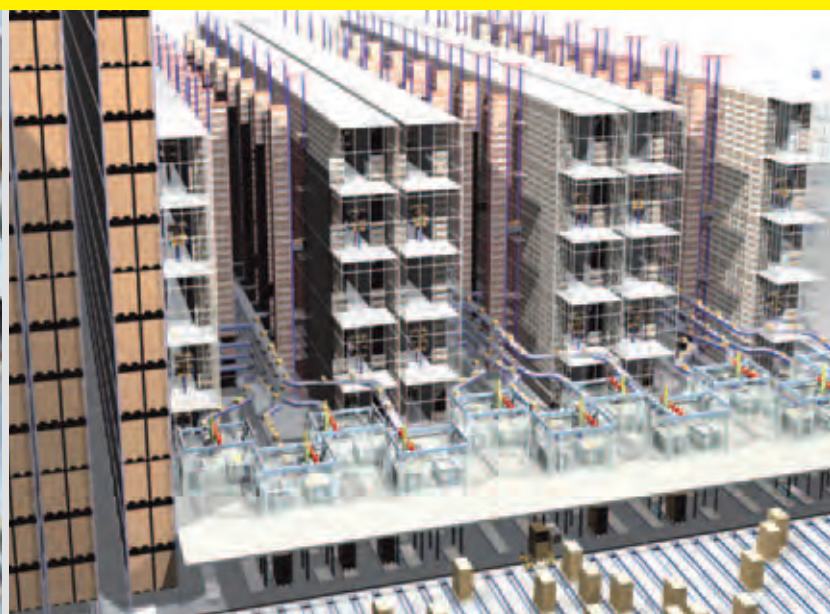
Objective of the SCP

- Packing software for volume-optimised, stable and store-specific formation of packages
- Efficient use of space and low energy consumption per unit
- Modularity and scalability regarding space and power requirements
- Flexibility for future growth and change of distribution structures
- Maximum range of items (6-packs, trays, ...)
- Low costs per unit (full costs)

SCP is a modular, scalable and almost endlessly expandable system from 30,000 up to 300,000 cases per day.



Laureate of the MM
Logistik-Award 2008



Machine Vision Technology

Industrial image processing for automated order picking processes

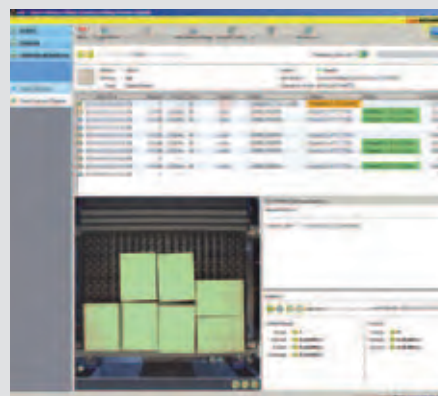
With the implementation of fully automated order picking systems, SSI SCHAEFER has consequently used and developed electronic image processing as key technology for automation right from the beginning.

The Schaefer Case Picking (SCP), the Schaefer Order Verifier and the SSI Robo-Pick (SRP) are successful examples for the utilisation of the innovative Machine Vision Technology.

In industrial production and intra-logistics Machine Vision Technology offers potential capabilities from the fully-automated palletising and depalletising via the sequence, layer and orientation examination directly in the process up to the quality assurance including complete documentation and traceability.

Advantages and results

- Operation of distribution centers which fully-automatic supply a customer-specific mix of products
- Efficiently automated and controlled production processes
- Integration of quality assurance and order picking with minimised error rates and significantly reduced personnel, energy and freight costs
- Technology advantages by a further reduction of interfaces
- Savings capacity which ensure a fast Return on Investment (ROI)
- Further developments of new plant functions with additional surplus for the customer
- Fully-automated inspection and documentation of completely commissioned orders – also as retrofit option for existing distribution centers





Pick-by-Voice:

Voice-guided picking – advantage in comparison to Pick-by-Light: several pickers can work on a picking area in parallel.

RF-picking:

RF-picking (Radio Frequency) is a type of picking used in the manual area. An integrated scanner reduces the number of manual entries to a minimum.



Pick-by-Light:

Fast access to single products is controlled by light signals – this is one of the best known types of hands-free picking.

Order Picking

In many cases the key to efficient and optimal picking is the adequate combination of automation and manpower. To guarantee highest picking quality in semi-automated and paperless picking, we implement modern, **ergonomically designed technology** for perfect guiding of pickers, shortest warehouse accesses and reliable quality in delivery.

Thanks to the mobile user interface (UIM), SSI SCHAEFER can incorporate all standard systems available in the market for radio frequency transmission with user dialogues that are independent of hardware.

Pick-to-Tote:

This was especially designed for the picking of large, heavy or delicate articles that are picked directly into the order tote.



Pick-to-Bucket:

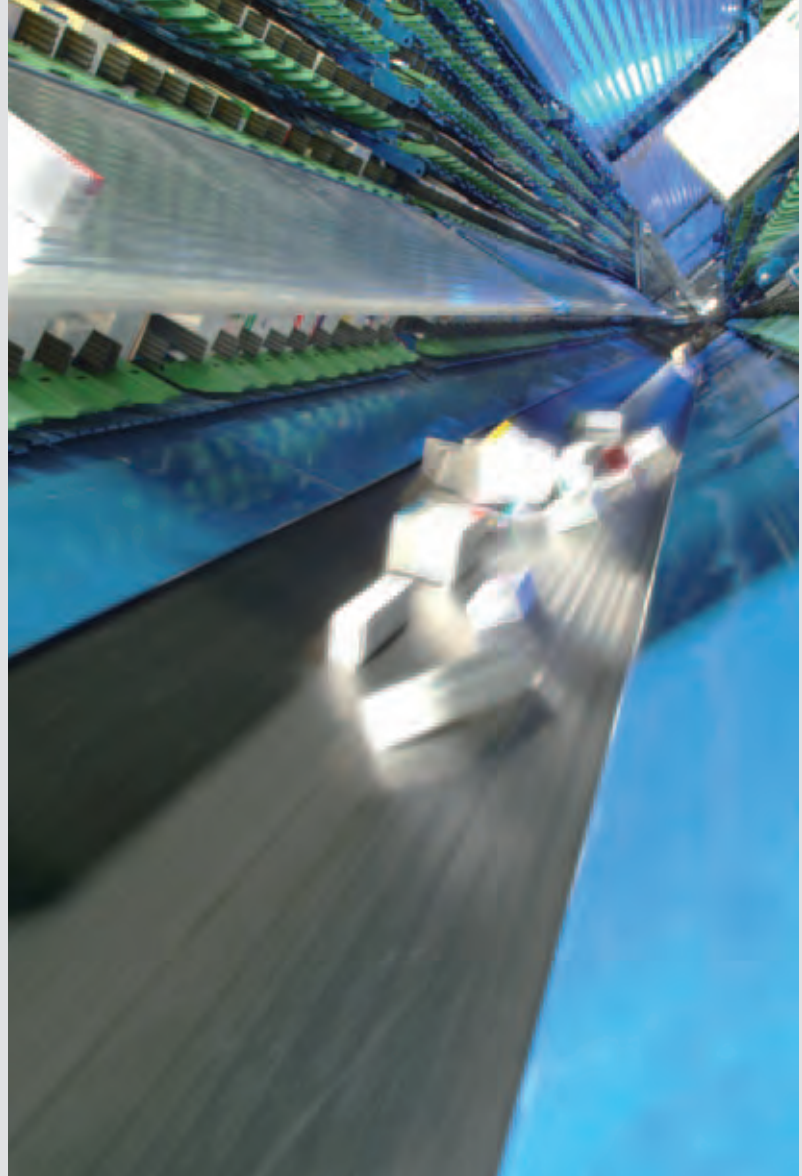
This is picking with the use of an independent collection bucket before it enters the order tote. Pick-to-Bucket workstations are designed for highest picking throughput rates. A combination of Pick by Light and Put-to-Light as well as a special buffer allow staff to have their hands free for the picking of lightweight and droppable products.

Automated Picking Systems

Automated Picking Systems consolidate all articles from individual orders – with flexibility and at highest throughput rates.

Permanent batch tracing is a fundamental principle of this concept.

Highest system reliability and quick access times as well as the combination of different types of systems allow the handling of nearly all product groups and goods.





SSI Robo-Pick

The SSI Robo-Pick (SRP) is the first fully-automatic picking system which can be integrated in an existing man-to-goods system. This system picks more than 95 % of typical products found in mail-order business and achieves picking rates of up to **2,400 picks per hour** keeping up highest picking quality.

The SSI Robo-Pick is supplied via an automatic storage system such as the Schaefer Carousel System, Schaefer Quad Shuttle or a Schaefer Miniload Crane with totes. The position of the products in the totes is identified by the two-stage, optical image recognition system. The optimal item focus for several products is simultaneously calculated by the system.

The special SSI Robo-Pick gripper then picks the needed amount. The system works entirely autonomic and service reduced. It is not necessary to record reference pictures of products to be able to pick them. Here it can directly be picked into the order tote or into a picking buffer.

The SSI Robo-Pick enables multi-order picking with unmatched picking performance and quality.

It is especially economic for order structures such as e-commerce regarding purchase costs which are equivalent to conventional goods-to-man systems.





Pallet Conveyor System

Transport of pallets – for recurrent processes and always the same sections the conveyor system of SSI SCHAEFER forms the basis for economic processes.

Conveyor system components provide excellent flexibility, are easy to assemble and to maintain. Built-in modularity, a special support profile for chain conveyors and roller conveyors, driven or revolving conveyor elements, belt and telescopic conveyors, discharging chutes or cascades – these conveyor system components including a wide range of accessories offer limitless possibilities for the design of conveyor systems.

Our own production line guarantees constant quality and ultimate reliability of single components and entire systems.



Tote Conveyor Systems

Individual solutions with perfectly combined components.

Modular designed standard components that can be arbitrarily associated and expanded offer SSI SCHAEFER a wide range of conveying systems for effective intra-logistics. The conveyors can transport standard totes or individually designed transport units.

The conveyor system is always tailored to fit the type of tote and meet all business requirements. High efficiency and throughput of the system are guaranteed by perfectly interacting components, special machines to handle totes and an ergonomically stable profile.

Silent conveyor system

Too noisy logistics workstations are a real cost factor as noise interferes with

concentration and leads to more faults and lower quality. The “silent technology” of SSI SCHAEFER as integral part of ergonomics@work® consists of a silent tote with patented running surface and noise-reduction fittings for the conveyor system.

The result is a conveyor system which is nearly silent in a typical warehouse environment as its noise level is 10 dBA and more below the ambient noise.





Case Conveyor System

To transport totes and cardboard boxes SSI SCHAEFER offers individually tailored solutions for the complex and constantly changing challenges of intra-logistics.

Due to the high flexibility of modular standard components, systems can be arbitrarily expanded, if necessary, and the perfectly interacting components offer a silent functionality as well as a simple maintenance.

Besides the popular standard totes, individually tailored totes can also be transported.

Tray Conveyor System

Transport and buffering of full and empty trays as well as for roller containers between the depalletising and separation by the case conveyor system. Different conveyor systems such as multiple-strand conveyors, roller conveyors, lifting and rotary station are available for this purpose. Further system components such as tray stacker, vertical conveyor, shuttle vehicle and diverse accessories complete the range of products.

Extensive accessories offer limitless possibilities for the design of material flows.



Hanging Conveyor System

The hanging conveyor system building blocks of SSI SCHAEFER offer the ideal solution for hanging storage and distribution of goods for nearly all sectors. Furthermore the competitive and nearly silent systems stand for highest storage density and absolute ground clearance. Application areas ranging from the clothing industry and the shoe retail market, to the cosmetics and pharmaceutical industry up to the electronic retail (e-commerce), emphasise the versatile applications of the hanging conveyor system.

This rich diversity is basically satisfied by three different systems:

The **SSI Translog Single**, the **SSI Translog Trolley** and the **SSI Translog Carrier**.

The automation level of these three systems is individually tailored to suite your requirements.



Schaefer Order Verifier

The Schaefer Order Verifier is a fully automated solution verify and document orders prior to shipping. It entirely fulfills legal requirements regarding consistent documentation of sent products including batch tracing and guarantees the highest possible dispatch quality in warehouse logistics with a throughput of up to 300 totes per hour.

Commissioned customer orders are discharged automatically and separated on special conveyor belts. Then products are fully automatically and optically recorded. As the identification is carried out from all six sides, the position of the barcode or matrix code does not have to be considered.

The Schaefer Order Verifier can be equipped with following options:

- Automatic discharging of commissioned customer totes
- Product counting
- Identification of 1-D or 2-D barcodes
- RFID readout
- Photographic shipping documentation
- Semi- or fully automatic filling of the customer totes

The Schaefer Order Verifier offers highest dispatch quality and efficiency at a fraction of operating costs in comparison to conventional dispatch control. It is easily integrated into existing systems. Perfect deliveries by excellent technology.

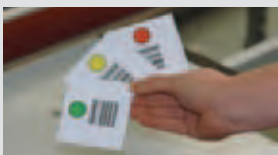


Schaefer Auto Cruiser

The Schaefer Auto Cruiser (SAC) is an extremely competitive and flexible transport system for low to average throughput. It was designed for loads of 1 g up to 30 kg, however, special designs for heavy loads are also possible.

The main components of the SAC are:

- Scales
- Rails
- Loading stations
- Curves
- Switches
- Turn tables



All components are supplied pre-installed. Therefore the Schaefer Auto Cruiser can immediately be put into operation. External infrastructure is not necessary. A domestic electricity socket is sufficient. Due to its solid structure, integrated distance sensors and its local control concept, the Schaefer Auto Cruiser operates entirely autonomic. The control of the system is carried out by destination cards which lead the vehicle to a preset station.

The Schaefer Auto Cruiser is the cost-optimal transport solution for your company in the area of 50–600 transports per hour. The system is completely modular, autonomic and safe in its daily utilisation. All this using highest reliable technology.

Customer Service and Support

High availability and durability, economical operation and fast help in case of malfunction - customer-oriented after-sales-service and regular maintenance are the most critical when optimising the utilisation period and operational reliability of devices and systems.

SSI SCHAEFER has met these challenges by establishing a service and maintenance network which is on call worldwide. Constant availability, modern or on site elimination of malfunctions and preventive maintenance for mechanics, control and IT-systems are just as well included in the business activities of SSI SCHAEFER as the design of a perfect system.

With customer specific service and maintenance models, innovative spare parts concepts, individual support and training offers as well as the take over of the entire technical operation of the system, the service team keeps downtimes short operations safe and customer satisfaction at a maximum.

With "Retrofit"-projects, automated systems can be updated with the newest technology. This can be done quickly and efficiently during running operations. The business activities range from demand-oriented optimisation concepts with investment cost calculations and implementation strategies up to energy-efficiency ideas and IT-solutions.

SSI SCHAEFER hotline – your direct contact 24/7.



Worldwide Support and Service

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