

WAMAS® LOGISTICS SOFTWARE

Efficient. Flexible. Reliable.

ssi-schaefer.com

 **WAMAS®**



 **SSI SCHAEFER**

SSI SCHAEFER - EQUIPPED FOR THE FUTURE



EXPERTISE AND STRONG PERFORMANCE

Our creativity, experience and years of expertise but also our innovative strength and the fact that we offer high-performance and scalable solutions place us in a position where we can realize outstanding and future-oriented projects for our customers on a local and global scale.

Future-proof logistics solutions must fit seamlessly into your processes, be infinitely expandable, and be flexibly adaptable to new framework conditions. To achieve these aims, you need a scalable, high-performance software solution to satisfy the intralogistics requirements of today and tomorrow.

At SSI SCHAEFER, this system concept has been the basis of our success for decades. As a general contractor operating on a global scale, our customers benefit from every component of the internal material flow being manufactured and developed by us in-house. With over 70 subsidiaries and more than 10,000 employees around the world, we cover everything from bins and steelwork components through to the planning, design, and implementation of complete logistics systems.

Pooled IT Expertise from the Industry Leader

Future-proof software solutions play a crucial role in intelligent and interconnected intralogistics operations. Based on our WAMAS® logistics software, and drawing on our process know-how and knowledge of the specific industry requirements, over 1,100 highly trained IT experts stand ready at SSI SCHAEFER to develop a bespoke solution for you - whatever the size and intralogistics landscape.



Modular, Flexible, Transparent: Your Complete Intralogistics Solution in One Application

WAMAS®, our proprietary logistics software, combines all of your intralogistics components into one intelligent system. This modular, standardized solution integrates seamlessly into existing SSI SCHAEFER intralogistics frameworks as well as other intralogistics environments. It is flexibly adaptable

with a diverse range of options for managing, controlling, and visualizing manual and automated logistics centers – and with open interfaces for full communication with your internal ERP system.

EXCELLENCE IN IT

- State-of-the-art software technology
- IT powerhouse with over 1,100 software experts
- Modular system for a variety of intralogistics landscapes
- Global service network and 24/7 support
- Process optimization through innovative KPI analysis
- Process analysis and visualization for maximum transparency and efficiency

WAMAS®

LOGISTICS SOFTWARE FROM SSI SCHAEFER

Using WAMAS® - the leading logistics software - SSI SCHAEFER designs you a more efficient warehouse, from warehouse management and right through to the control system, regardless of whether a manual or highly complex automated logistics system is concerned.

In addition to highly advanced processes, WAMAS® is the perfect answer to all logistics demands, providing a comprehensive portfolio of features ranging from warehouse management to transparent monitoring and control functions, as well as interfaces to the broadest range of ERP systems.

The functionalities of the WAMAS® logistics software are not confined to storing and administering goods: WAMAS® manages and controls all of the processes involved in intralogistics. Executing jobs efficiently and flexibly, optimizing goods movements and resources, and providing and analyzing logistics KPIs are only a few of the functionalities offered by the extensive WAMAS® portfolio.

WAMAS®. Logistics software. Worldwide.

WAMAS® OFFERS:

- WMS with standardized in-depth logistics process variants
- Pure WMS, WMS/MFS or mixed WMS/MFS scenarios customizable to industry specific processes
- Standard interfaces to the broadest range of ERP systems
- MFS functionality for high performance automation
- Integration of 3rd party suppliers





USING OUR EXPERIENCE FOR YOUR SUCCESS

Being the best and not just among the best is the goal of SSI SCHAEFER. With this claim we are securing the future of our logistics software. In order to achieve our aim, we use experience gained from our global customer projects to continuously improve WAMAS®.

Our customers can rest assured that they will always have state-of-the-art technologies and logistics at their fingertips. New functionalities are delivered in the form of regular releases thanks to the continuous development of the WAMAS® logistics software. This allows us to give you our guarantee of:

- Constant availability
- Low maintenance costs
- Sustained savings
- High investment security

WAMAS® PRODUCT PHILOSOPHY:

- Reliable in-time delivery of every order line
- Control and optimization of multiple locations visibility on all process levels
- Built-in performance & optimization functions
- Easy configuration and adaption during operation
- State-of-the-art technology
- Upgrade compatible

WAMAS®. Logistics software. Worldwide.

WAMAS® MORE THAN JUST LOGISTICS SOFTWARE



Control. Instantly. Transparent.
Product. Proven. Optimized.
Key performance indicators. Central. Operation.
Warehouse processes. Efficient.
Reliable. Secure. Pioneering.
Software. Flow of goods. Stock.
Dynamic. Order processing.

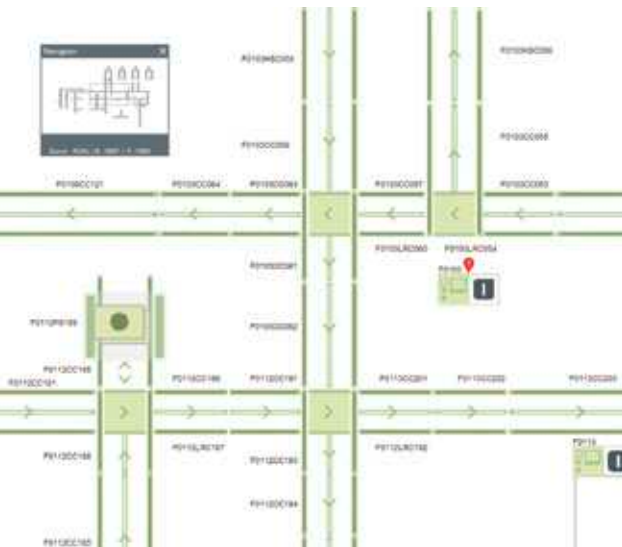


01 Accepting goods

WAMAS® signifies speed and quality right from the incoming goods stage, irrespective of whether the process is manual or automated. This is the point at which the foundations for efficient and high quality handling of goods are laid.

WAMAS® goods-in:

- Dock administration
- Goods receiving
- Master data checking
- Quality control
- Supplier assessment
- Repacking



02 Transport

WAMAS® controls and optimizes the entire internal flow of goods. In automated warehouse systems, WAMAS® assumes all responsibilities, including PLC control.

WAMAS® transport:

- WMS and MFS in a single system
- Non-stop goods flow
- Integration of manual transport devices
- Forklift control system
- Bin and pallet conveying system
- Storage and Retrieval machines
- Automated warehouse technology



03 Manual storage processes

WAMAS® assumes the control of all operational processes and guides employees through the processes in an easy to understand manner and in real time, leaving them time to focus on other added value activities.

WAMAS® for manual warehouses:

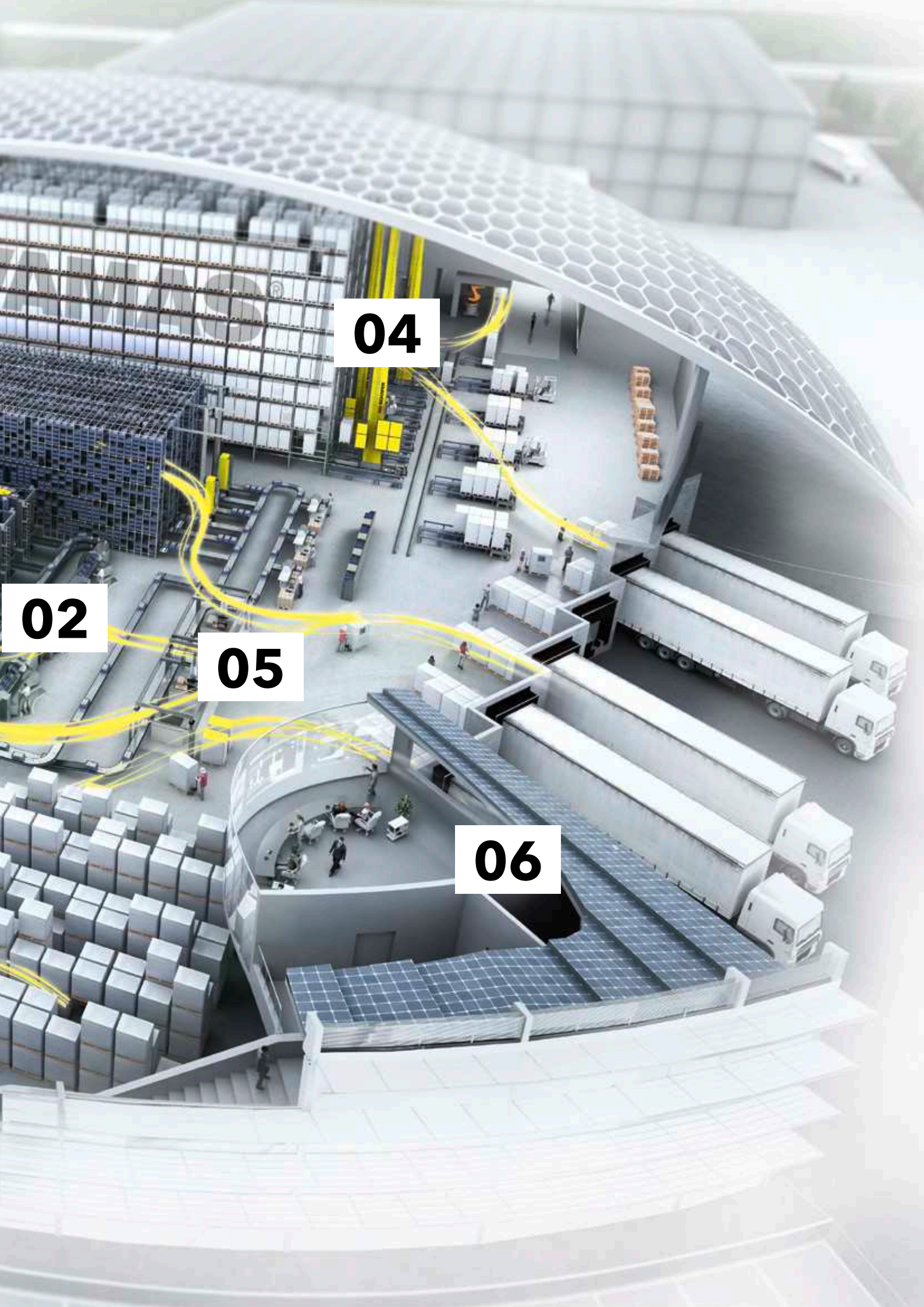
- Mobile terminals
- Voice-Terminals
- Paperless picking and transport
- Inventory during running operation
- Value Added Services

WAMAS® LOGISTICS SOFTWARE FROM SSI SCHAEFER

01

An aerial view of a large, modern industrial warehouse. The building has a curved, white facade and a grey roof. Inside, there are several large storage areas. On the right, there are rows of blue pallet racks with yellow labels that say "SSS SCHAEFER". In the center, there are stacks of white pallets. Yellow lines are drawn across the floor, indicating the flow of goods or the movement of equipment. There are several forklifts and other vehicles visible. In the foreground, there is a parking lot with several cars and a few people walking. The overall scene is a detailed 3D rendering of a logistics facility.

03



04

02

05

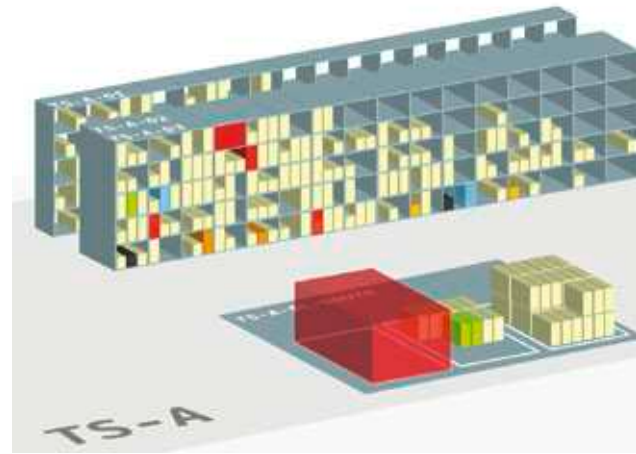
06

04 Storage

WAMAS® ensures optimum utilization of storage capacities, taking into account the varied influence factors in the warehouse.

WAMAS® storage:

- 3D warehouse model
- Pre-defined storage location types
- Configurable storage strategies
- Client and multi-storage capability
- ABC analysis
- Replenishment control with or without threshold values as required



05 Picking and outgoing goods

WAMAS® provides the highest goods throughput combined with the best possible utilisation of storage capacities. This ensures that goods are supplied on time.

WAMAS® picking and outgoing goods:

- One- and two-stage picking
- Multi-customer picking
- High-performance picking
- Automated picking systems
- Set creation
- Cross Docking
- Packing
- Rule-based cargo creation
- Quality control in the outgoing goods process
- Guided HGV loading



06 Control center and information system

WAMAS® coordinates complex warehouse processes and combines all the important information in the control center. Efficient warehouse operation is ensured by clear management and continuous control instruments for processes, resources and stocks.

WAMAS® information system and control center:

- Order planning
- Resource and capacity planning
- Control of order processing through the entire process chain
- Performance analysis statistics
- Integrated visualization
- System monitoring
- Key performance indicators and reports





EVERYTHING FROM SINGLE SOURCE

Complexity.

Intralogistics.

Service.

Process configuration.

Controllable.

Solution.

Technology.

Scalable.

Monitoring.

Ergonomics.

At all times.

Global leader.

Future-proof.

Automated.

People.

Focussed.

Flexible.

Integrated.

Worldwide.

WAMAS®

EXCEPTIONAL BY DEFAULT

WAMAS® – software for a range of warehouse solutions



MANUAL - COMPLEX

WAMAS® - The group solution

COOP Group, Switzerland

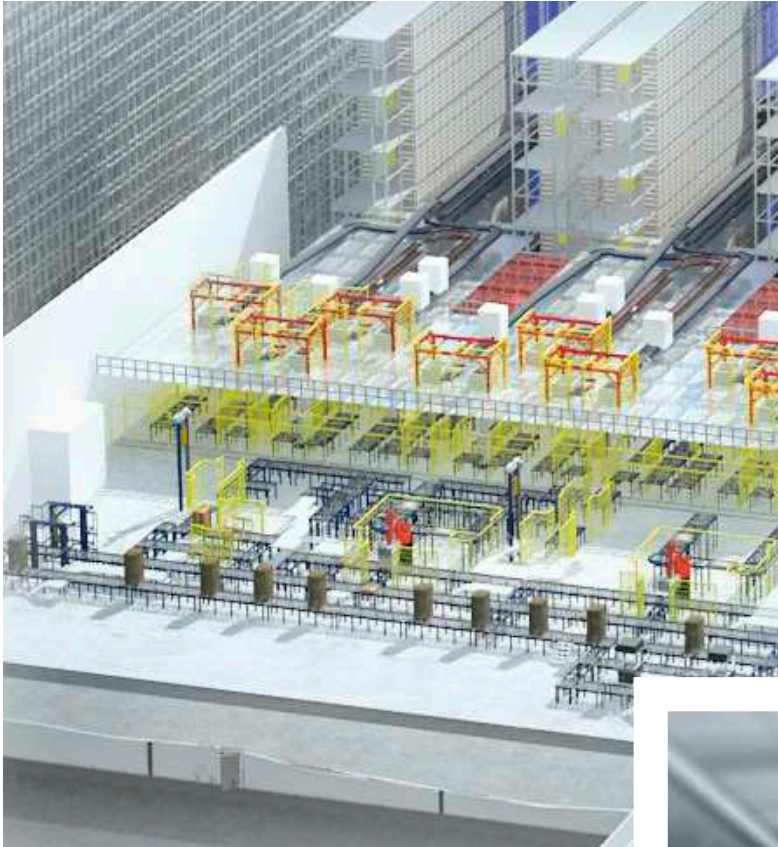
- Implementation of a WMS across the group
- 20 sites in Switzerland
- 70,000 items (food & non-food)
- 2,000 WMS users
- 1.8 million trading units a day

MANUAL - SIMPLE

WAMAS® - The start-up solution

Leonhard Heyden GmbH, Deutschland

- Introduction of a modern WMS
- 3,000 m² central warehouse
- 1,800 storage locations
- 30% time saving



AUTOMATED - COMPLEX

WAMAS® - automation on a large scale

ES3 LLC, Pennsylvania (USA)

Increase in the degree of automation at the distribution centre in York

- Schaefer Case Picking (SCP) system
- 36-aisle tray warehouse (Schaefer Tray System)
- Depalletising and palletising robots
- Throughput of 100,000 goods cases a day

AUTOMATED - SIMPLE

WAMAS® - dynamic picking systems

Federació Farmacèutica, Spain

Modern pharmaceutical distribution warehouse

- 4 km conveyor system processing 50,000 bins a day
- Automated small-parts warehouse
- Schaefer Carousel System (SCS)
- Pick to Tote workstation (1,000 picks/hour)
- 120,000 order lines a day
- Outbound deliveries of 250,000 pieces a day



TOP PERFORMANCES IN ALL SECTORS

Just a few of the 1.200 successful projects using IT solutions by SSI SCHAEFER as the basis of networked intralogistics 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 over 70 operative subsidiaries, our team of experts speak your language.

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