

MISSION ACCOMPLISHED

EDITORIAL



Dear Reader,

Through our Update magazine, we can give you regular information on interesting projects from branches of Schaefer all around the world. We are proud to be able to tell you about the large projects we undertake, such as the Quinn Glass pallet silo described in this issue.

In addition to the large projects, there are of course lots of smaller projects, which we can only briefly describe within the page limits of this magazine, but which are no less important to us. Even in the case of what might be considered small standard jobs, we are still dedicated to working out the best solution to meet your requirements. We are the ideal partner for every size of job, whether it concerns manual or automated plants, a single product or a complex logistics system. We pride ourselves on being customer focused.

We hope you enjoy reading this magazine.

Klaus Tersteegen
Member of the Board

SSI Schaefer has built a steel construction for the mega pallet silo at Quinn Glass

In Ince in the northwest of England, SSI Schaefer has built a steel construction for a high rack silo with over 281,000 pallet storage spaces for glass manufacturer Quinn Glass. Not only does Quinn Glass produce glass bottles and glass containers, the company also provides bottling, labelling and distribution services. Around 4 million glass bottles a day are manufactured at the production facilities in Ince, which are also new.

Quinn Glass, with its headquarters in Derrylin, Northern Ireland, is a member of the Quinn Group, a multinational organisation, which, apart from glass manufacture, is also active in various other fields, including financial services, hotel and property management, cement production and the manufacture of concrete products, radiators and plastics.

SSI Schaefer's scope of supply for this customer included erecting the steel construction for the 300 x 180 x 35m (L x W x H) automatic warehouse, building conveyor equipment platforms and providing project management with respect to integrating the sprinkler system and the roof and wall coverings.



There were 150 SSI Schaefer employees working on-site to complete this high rack silo, which to date is probably unique in terms of its size. The Schaefer team completed their work in March.



Innovative
SCS carousel system with RFID-tagged containers



Effective
Foldable collapsible containers at Kienast Shoe Trading Group



Compact
Automated mobile racking at Zandbergen, the meat importer



Combined
Shelving systems in the GM logistics centre

Innovative logistics at **LAPP KABEL**



The high-performance RFID-chips which are embedded in the bottom of the Schaefer LTB bins can be detected and read accurately even if surrounded by metal.

Lapp Group was yet another leading

manufacturer to choose the Schaefer Carousel System (SCS) to optimise its small parts warehouse. With RFID-tagged containers, high availability in the narrowest of spaces and an optimised operator control system,

the dynamic high-speed order-picking system in Lapp's central distribution centre ensures efficient storage and order-picking processes.

The special feature of this order was



AUTOMATIC MIX



BOLL & KIRCH Filterbau GmbH, based in Kerpen, Germany, is a leading manufacturer of automatic and manual filters in the liquid and gas filtration industry and is active worldwide. In structural terms and in relation to information technology, the main warehouse facilities at the production site in Kerpen were not able to keep up with the rising global demand for its expanding company's products. It was decided that the complex should be rebuilt. SSI Schaefer was appointed the main contractor and was given the job of equipping the logistics centre.

The special feature of this project, which was completed within six months, was

that the almost 20m tall high-rack warehouse was to house a two-aisle automatic small parts storage system as well as a pallet storage system with three aisles. Not only was the height unusual for a small parts storage system, but in addition the entire conveying system had to be able to handle pallets, mesh boxes and trays carrying up to 200kg of small parts. The warehouse management system "ant" from SSI Schaefer was chosen to provide the information technology required for linking and controlling the operational processes.

Behind the Scenes ...

that Lapp Group, a leading, international cable technology manufacturer, decided to reorganise the storage and distribution processes within the existing three-storey logistics building at their headquarters in Stuttgart, Germany. As the main contractor, SSI Schaefer acted as consultant and conceptual designer for the future distribution centre and successfully created the small parts warehouse during the first stage of expansion. Within five months, the new small parts warehouse was ready to be fitted out and start operating. Thanks to the integration of four Schaefer Carousel Systems (SCS), this warehouse has



With up to 1,000 to- and from-bin transfers per hour the bins are prepared for picking at two pick-to-tote workstations.

been used for largely automated order-picking since April 2006.

"By converting from the order-picking principle to the "goods to picker" method, we have been able to noticeably reduce our lead times and considerably increase throughput in terms of order processing", explained a happy Thomas Jellinek, Project Manager at Lapp.

The end customer knows the brands, but not necessarily the company behind the brands. Yet the Kienast Shoe Trading Group, with headquarters in Wedemark near Hanover, Germany, is one of the largest traders in the shoe industry. Five distribution chains involving 300 branches throughout Europe ensure that the company successfully reaches its target groups, which include the trendy „street“ shops, the „ABC“ family shoe markets and the „K+K“ Shoe Centre discount outlets. It is often the case that a particular shoe will sell much better in certain branches than in others. And in 2002, Kienast switched from using cardboard boxes to using Schaefer containers for redistributing these shoes between the individual branches of the distribution channels.

When empty, the Schaefer containers can be folded flat to save lots of space, but at the same time these

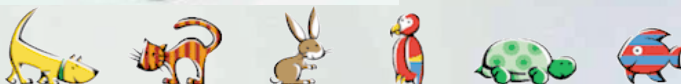
containers are robust and able to carry heavy loads even when stacked. Around 200,000 transports are made every year in the Schaefer boxes in order to redistribute particular shoes. In contrast to the costs of disposable packaging, with re-usable containers the costs get lower and lower as the circulation frequency increases. For Kienast, switching to these containers has already paid for itself. The company now has around 14,000 foldable and collapsible containers in its inter-branch logistics system. Compared with the cardboard boxes used previously, which had to be bought in on a regular basis, using Schaefer containers has given the company about 1/3 more available space. In addition, with the cardboard boxes there was always the risk that the boxes at the bottom would collapse under the weight of the stack and the goods would be damaged.

Perfect container for INTERPET



SSI Schaefer UK has supplied 9,000 euro size containers, to be used in automation, to one of the UK's leading manufacturers and distributors of pet and aquarium products. Interpet required the services of SSI Schaefer, once a new miniload system had been installed, within their new distribution centre at Bridgwater, Somerset. Schaefer had to provide the perfect

container that would operate with minimal base deflection at a load of 50kg. Tony Hucker of Interpet says: "The containers have been loaded into the system and are performing perfectly. They have been moulded to exacting standards, therefore making them suitable for use with the sensitive check-weighing system."





Dynamic Power

The „automated mobile racking system” from SSI Schaefer, launched in autumn last year, was declared „Best Product 2006“ in one of the categories at the LogiMAT exhibition in Stuttgart at the end of March. This new product is one of the key elements in the logistics centre of service provider Simon Hegele based in Kemnath, Germany. Hegele is responsible for all the materials management tasks for the medical systems branch of Siemens. Within the scope of a new pilot project,

one storage block was fully automated using four mobile racks supplied earlier by Schaefer. The actual storage and retrieval processes are unmanned and continuous. This automation has allowed for a 50% reduction in aisle width compared with conventional mobile systems.

The generic warehouse and material flow control system was designed by Schaefer in such a way that it could be easily adapted to the existing ware-

house management systems. One of the tasks of the WMS is to presort the retrieval jobs in order to minimise the number of lane changes imposed on the vehicles, thereby maximising both vehicle and system performance. Hegele Plant Manager Schleifer and IT Manager Lange are happy with the new system and can see themselves recommending the full automation of a second block as part of the planned expansion in Kemnath.

No new building necessary

Cycle manufacturer **koga miyata** expands its capacity with compact storage systems



Koga-Miyata, one of the most well-known cycle manufacturers in the Netherlands, was able to make the necessary expansion to its storage capacity by investing in compact storage systems from Schaefer, thereby avoiding the cost-intensive solution of building new storage facilities.

In order to integrate the mobile racking for pallet storage, the Schaefer team milled slots in the old hall floor of the existing warehouse to accommodate the rails of the mobile lines of shelving. The existing service parts warehouse was closed and the parts were relocated to the 11m high vertical lift „Pickomat“. The special feature of the Pickomat at Koga-Miyata is that the

vertical lift is located outside the hall and is attached to the external wall, although the operator side is inside the warehouse. In addition to increasing the amount of storage space by building the lift externally, the Pickomat also facilitates improved warehouse management, tidier storage and a smooth order-picking process.

The compact configuration of the new systems meant there was no need to convert the existing warehouse or build a new one. This in turn meant it was possible to keep some land aside for use in the future when the company wants to expand its production facilities.

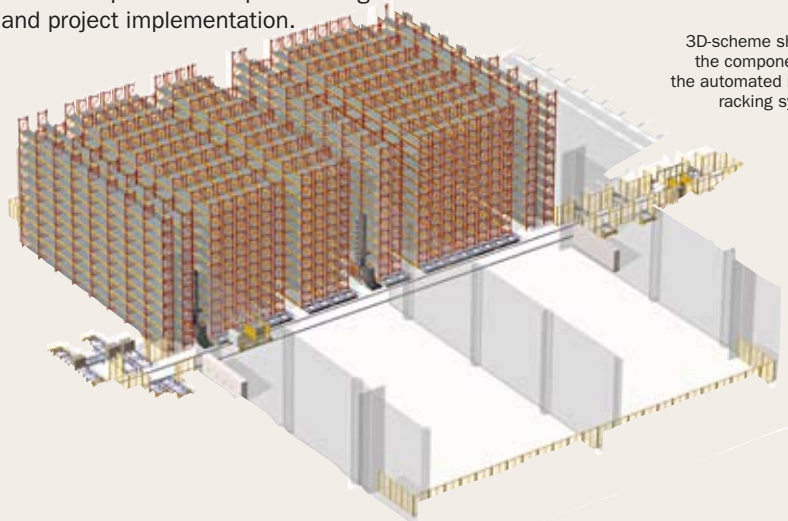
State of the art for deep-freeze storage



The automated mobile racking system from Schaefer has an increasing market potential for refrigerated and deep-freeze storage. In April, Schaefer was awarded a contract by Dutch meat importer, Zandbergen. A fully automated system from Schaefer is to be used for approximately one third of the Zandbergen's new deep-freeze storage, which comprises a total of 30,000 pallet spaces (industrial pallets).

secure storage logistics an absolute must. SSI Schaefer was able to meet this requirement with its automated mobile solution, standard conveyor technology and conventional heavy-duty mobile racking as well as technical competence in plant design and project implementation.

It is expected that the storage system will be ready to commence operating by March 2007. SSI Schaefer are dedicating over 30 employees to the implementation of this project.



3D-scheme showing the components of the automated mobile racking system.

Zandbergen, with its headquarters in Zoeterwoude, is one of Europe's leading meat importers and guarantees its customers "just in time" deliveries of a wide range of high-quality meats. Zandbergen has been achieving this using refrigeration and deep-freeze stores with a storage capacity of 6,000 tons. When the new stores are commissioned, this capacity will increase to 25,000 tons. Every day, cooked, refrigerated and frozen meats are dispatched from these stores for distribution around the world. This makes highly efficient, reliable and

SSI Schaefer UK has recently finished the complete fit-out of a fully integrated, distribution warehouse in Rushden, Northamptonshire, run by

is used to replenish the order-picking areas. In order to make good use of the building height a 7,500 m² mezzanine platform was installed to locate

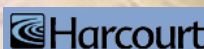


Order-picking warehouse for British educational book publishing house

DHL Exel Supply Chain on behalf of Harcourt Education, the UK's leading educational publisher of learning resources.

At 14m high and with 30,000 pallet spaces, the narrow-aisle warehouse

the extensive range of small and medium sized items in about 40,000 compartments in modular racks. Quick turnaround items are held available in two 11m high Schaefer „Pickomat“ ASRS. The goods are transported from the order-picking stations to the despatch area by conveyors. Overseeing the project was Bob Jane, Business Development Manager at SSI Schaefer, he said: „We have ensured the positive integration of a number of different disciplines into the overall planning and implementation stage, maintaining our reputation as a fully integrated solutions provider.“



If the crop is good, everything is good



New spare parts centre kitted out for Krone



In February, forage harvesting specialist Krone opened its new spare parts warehouse in Spelle, Germany. With the new building plus extension measuring approximately 10,000m², not only was the capacity of the main warehouse increased by more than 40 percent, but at the same time new manufacturing facilities for assembling large machines were also created. SSI Schaefer's scope of supply included pallet, cantilever and live storage racking and modular shelving, providing a new overall capacity of 40,000 items. Every day, around 400 items are registered in the goods incoming department of the new spare parts warehouse and close to 2,400 parts are dispatched - that is twice as much as before.



The heavy-duty racking system is subdivided into longitudinal beam racking for pallets and front-to-back racking for mesh boxes. For Krone, having compact storage

facilities for various long parts was also important. Long parts are now stored in a 47m long by 9m high cantilever racking. Small parts are stored in a two-storey modular shelving in the middle section of the new warehouse. With respect to the selection of the storage systems, Alfons Veer, Project Manager for the conversion and connection of the spare parts warehouse at Krone, said: "We decided against an automated solution, because manual systems are more easily adapted to suit our heavy-load and oversized products and can be modified if necessary. In addition to this versatility, we also wanted to keep the purchase costs to a minimum."

SSI Schaefer recently quoted on a project for Robert Bosch and successfully won the contract to construct bays of modular shelving under existing bays of pallet racking at Bosch's plant in Denham, Buckinghamshire.



FOLLOW-UP ORDER FROM **BOSCH** IN THE UK

Having used SSI Schaefer in the past to install two-tier modular shelving, Bosch knew that Schaefer were more than able to deliver within the specifications set out. Completed in less than a month, SSI Schaefer installed Regal 3000 uprights, which allowed the units to be a suitable height and used 1,282mm wide bays instead of 995mm, which complimented and utilised the space available. Overseeing the installation was James Skilling of SSI Schaefer, he said: "The R3000 shelving system we used for this job is extremely versatile. Hence, it was possible to meet all the various requirements using just one system."



SSI Schaefer had only half the time it usually takes to kit out the new regional warehouse for Derendinger AG, the leading supplier on the Swiss open market for car spare parts. Derendinger wanted to get

now stored by hanging them up using clamps fitted to special frames and the tyre warehouse is designed to accommodate 13,000 tyres. There are approximately 80,000 items in the warehouse.

time. Talking about this achievement, Thomas Christen, Logistics Manager at Derendinger, said: "I have nothing but admiration for the Schaefer assembly team and for what they have achieved. They really put themselves out. In the project meetings between us, our consultants and SSI Schaefer, short-term decisions were always made by mutual agreement."



High Speed

the new warehouse in Oensingen, Switzerland, up and running as soon as possible. SSI Schaefer installed a two-storey, modular shelving system with mezzanine construction, container storage for small parts and pallet racking. Exhaust pipes are

Assembly work began on 10th January and was completed by 20th February. Usually, it would take between ten and twelve weeks to create this kind of warehouse. In Derendinger's case, Schaefer managed to complete the job in half the



Cat Logistics operate new GM distribution centre



The new General Motors logistics centre, located in Budaörs, Hungary, and operated by logistics services provider Cat Logistics, went into service in June this year. Cat Logistics, a subsidiary of Caterpillar, the leading global manufacturer of construction and mining equipment, runs the new GM logistics centre to organise original parts for the GM brands for distribution in central and eastern Europe.

The logistics centre has a total surface area of 14,850m², comprised of six halls each measuring 2,475m². The storage technology used came from SSI Schaefer, a regular supplier to Caterpillar for many years. Five of the six halls contain pallet racking, offering a total of 10,000 pallet spaces. The sixth hall is used for storing spare parts in modular shelving in a two-storey mezzanine construction. The

two-storey system has already been prepared for future extension to make it a three-storey facility. Schaefer also supplied lots of accessories and the entire lighting system for the platform system.



Schaefer at the MATEX exhibition in Sydney

Approximately 3,500 people visited the Matex exhibition, which ran for four days in Sydney. SSI Schaefer was one of the exhibitors and used the opportunity to demonstrate the efficiency of various storage systems through virtual storage simulation. Modular, mobile and pallet racking systems were demonstrated on the exhibition stand. Schaefer used the

S-Pemat and K-Pemat automatic picking systems and the "Pick by Light" operator control system to simulate the capabilities of high-speed picking, as used in the pharmaceutical industry, for example. Based on highly positive feedback, Schaefer has decided to be an exhibitor again at next year's MATEX exhibition.

SSI logistics event in Singapore



In cooperation with four partner companies, SSI Schaefer demonstrated a "virtual warehouse" to 300 guests in Singapore. The live demonstration of selected storage technologies and systems, in particular, met with great interest. Both Schaefer and the partner companies declared the event a total success.

Schaefer at the SIL exhibition in Barcelona



SIL (Salon Internacional de la Logística), the most important logistics exhibition in Spain, took place in Barcelona at the end of May. Over 45,000 visitors attended.

SSI Schaefer presented the Multitec automatic picking system for the first time ever on its exhibition stand in Spain. The exhibition was a success in terms of the number of visitors and the quality of enquiries.

VISIT US AT THESE TRADE FAIRS 2007

TRUCK & TRANSPORT | BRUSSELS
13 - 16 JANUARY 07

AUTO ZUM | SALZBURG
17 - 20 JANUARY 07

LOGIMAT | STUTTGART
13 - 15 FEBRUARY 07

IMHX | BIRMINGHAM
13 - 16 MARCH 07

Z 2007 | LEIPZIG
14 - 16 MARCH 07

DEUTSCHER MATERIALFLUSSKONGRESS | GARCHING
29 - 30 MARCH 07

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