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update

Company magazine



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Revamping efficiency with a new online presence



You increase your success.

We increase your
Efficiency

Worldwide.



Dear reader,

It is about two years since Salomon Automation became a member of the SSI Schaefer Group while retaining its former management makeup. Expectations were high. Both parties were promising fruitful synergy effects. Now it's time to take stock.

The decision to join the SSI Schaefer Group has proven to be the right one. The software and logistics expertise of Salomon Automation has been a great boost to the Group's product range. Over the last few months, the companies have merged into a single entity with a significant depth of added value within the Group and a global presence on the intralogistics market.

Joint projects, innovations and events have resulted from this young alliance. This update contains a number of sample projects, e.g. dm, Migros and Valora, and international projects to show how the SSI Schaefer umbrella brand raises performance levels for the benefit of its customers.

Another highlight of this edition is our new online presence and its revamped efficiency section.

Enjoy your reading.

A stylized, handwritten signature in blue ink, appearing to read 'F. Salomon'.

Franz Salomon
Managing Director, Salomon Automation



Smooth-running goods management at Drogeriemarkt

In order to manage ever-increasing volumes of goods, dm-drogeriemarkt GmbH, Enns (Austria), has modernised its existing, partially automated distribution centre. A new, fully automated high-bay pallet and container racking system has been in operation for over a year now.

The distribution centre in Enns (Upper Austria) supplies all 354 Austrian dm branches and eight distribution centres in central and eastern Europe. The smooth and rapid management of goods plays a crucial role in the company's success. dm is now adopting state-of-the-art IT solutions to ensure smooth collaboration with partners and suppliers in the future.

The existing, partially automated distribution centre was extended and modernised in order to handle the company's ever-increasing volumes of goods. The different volumes of the around 8900 different items handled was a real challenge.

A 10-aisle, fully-automatic high-bay pallet and container storage system has been in operation since the summer of 2009. It has an automated storage capacity of around 57 400 containers and 3200 pallets. dm moves around 35 000 order items a day in its automatic small parts warehouse alone. The new technology was supplied by Salomon Automation, Friesach/Graz, a member of the SSI Schaefer Group.

The modernisation was completed in two stages. Stage 1 included the entire container conveyor technology including eleven order picking and four repacking stations, five automatic small parts store aisles as well as six high-speed order pickers. Stage two focused on the complete pallet conveyor system including a fully automated five-aisle high bay warehouse for single and double-deep storage; at the same time the conveying system was linked to the existing electrical overhead conveyor. Salomon Automation handled project management as well as the modernisation of the existing, partially automated warehouse. For example, the control system for the electrical overhead conveyors and pallet conveyor belts was replaced with the WAMAS control system and integrated into WAMAS warehouse management. The system was set up on three levels. SSI Schaefer, Austria was responsible for steel construction.

Now that dm has completed its palletising system and connected the container warehouse to the conveyor line running to the outgoing goods area, the company is ready for whatever the future may hold.



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SSI Schaefer and the five pillars of competence

New online presence gives a face to efficiency

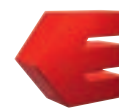
When SSI Schaefer decided to give its online presence a facelift, an idea became reality. The specialist intralogistics firm wanted to portray the group of companies as it really is - one unit with the common goal of providing solutions to raise customers' efficiency levels! It also wanted users to immerse themselves in the service-focused, informative and visually pleasing virtual world of SSI Schaefer. This has resulted in an integrated presence which takes the website into a whole new dimension.

Brought together under the SSI Schaefer umbrella brand, the company's overall

expertise is based on five pillars: logistics systems, storage and conveying, workstation, logistics software and waste technology. The brand's structure has been suitably revamped through the new website. Interesting features such as films, digital brochures, news, online registration for events, trade fair vouchers and contacts offer visitors more than just useful information. They provide an extensive service with insight into various aspects of the entire range of services available from the company.

The new site presents in a nutshell what distinguishes this intralogistics

specialist. It has more than 70 years of experience in storage logistics. More than 35 years of experience in waste management. 16 production sites on 3 continents. Present in over 50 countries worldwide. SSI Schaefer is in an unrivalled position when it comes to selecting the most efficient solution and implementing everything from one source for any given project. The company



therefore chose the letter E to convey the core message on its homepage:

You increase your success because we increase your efficiency.

SSI Schaefer wins 2010 Prize for Industry

SSI Schaefer won the 2010 Prize for Industry in the category of "Intralogistics & Production Management" at this year's Hannover Messe for the Schaefer Orbiter System (SOS).

The great innovation and benefit to industry of the shuttle solution beat off competition from 100 qualified applicants and was awarded the prize by a

high-calibre jury on the first day of the trade fair in Hanover just months after being launched. The intralogistics specialist had already received the Swiss IVS Prize for Innovation for the system in March 2010.

Handing over the award: Gregor Balve (left), Product Manager for Midsize Media, presents the award to Klaus Tersteegen (right), Managing Director of SSI Schaefer, Neunkirchen.



Energy-efficient shelving solution – SMC1

SSI Schaefer has added the recently developed Schaefer Miniload Crane (SMC1) to the shelf-servicing devices family. The future-oriented development offers impressive energy efficiency, dynamics and excellent customer service.

The lightweight, highly dynamic and energy-efficient SMC1 is ideal for high-performance applications. When designing this product, SSI Schaefer entered new ground and dispensed with the standard anti-pendulum drive. The result is an extremely light and economical device offering great stability.

As with all other SSI Schaefer shelf-servicing devices, proven Green Crane technology was deployed. This aims to protect the environment and cut operating costs through minimum energy consumption and by reducing the system's servicing costs. With a considerably better energy balance than comparable devices with anti-pendulum drive and a control concept matched perfectly to the needs of the customer, the system represents the ideal solution for maximum utilisation of the vertical storage space on a small floor area.

Because the system uses cartons, trays and containers as load carriers, there is virtually no restriction to the shape and surface of the parts being stored or buffered.



Inbrief

SOS launched in the UK

SSI Schaefer, England, has now launched the environmentally-friendly and energy-efficient Schaefer Orbiter System (SOS). The shuttle system is now safely, quickly and intelligently transporting goods through racks in the UK at speeds of up to one metre a second.

The orbiter and the docking station designed for loading using a forklift form an inseparable functional unit which can be flexibly moved in the channel storage system. The forklifts pick up the docking station, including the orbiter, and place it into the centring console on the required rack. Travel commands are issued wirelessly to the SOS.





XXL retail warehouse in Kuwait

Working with SSI Schaefer, Graz, SSI Schaefer Middle East, Dubai has produced one of the largest logistics centres in Kuwait for retailer M.H. Alshaya. An integrated material flow concept, powerful system components, ergonomic workstations and a perfectly customised warehouse control system to ensure efficient and coordinated processes.

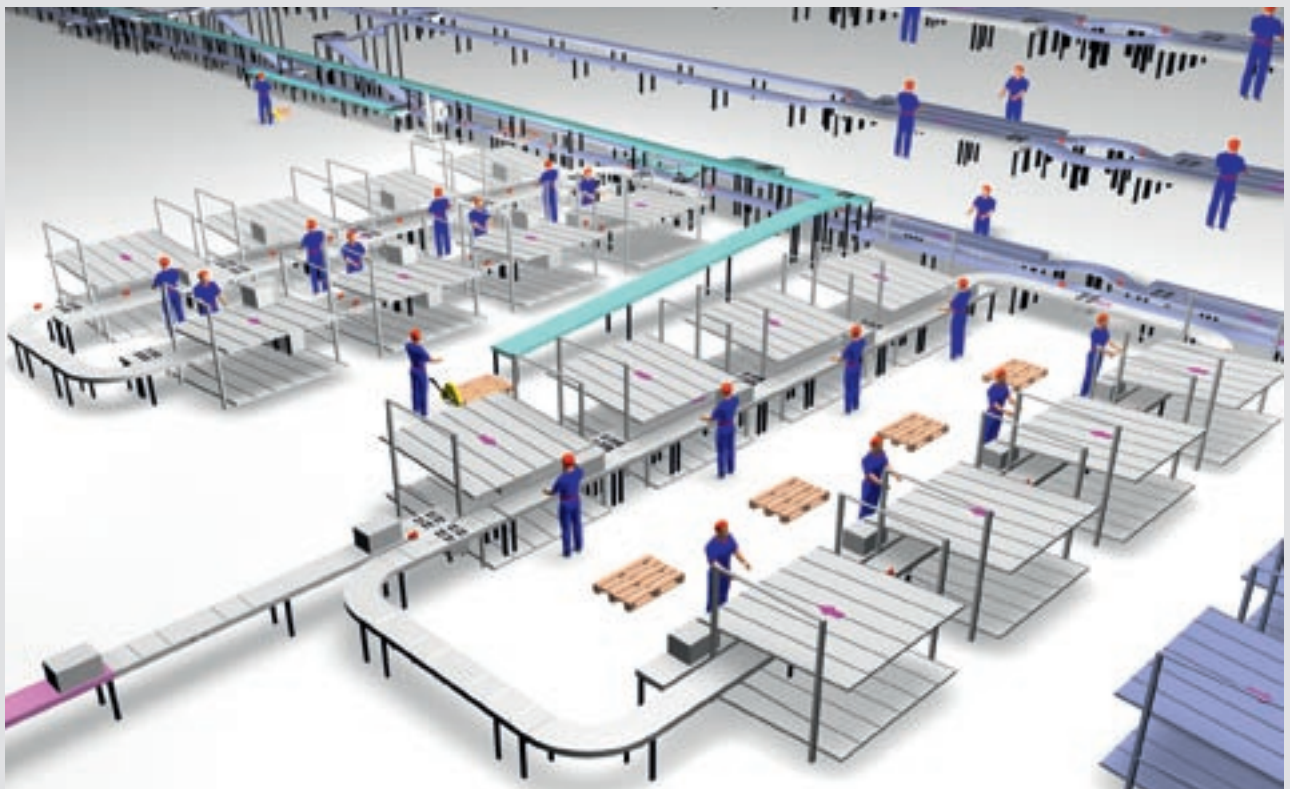
The retailer, known in the Middle East market for brands such as Next, H & M and Starbucks, has opened the doors

of its new distribution centre in Mina Abdullah. At 25 000 m², it is the largest logistics warehouse in Kuwait.

The huge integrated system with a steel construction from SSI Schaefer has four levels and is equipped with all possible modern storage and transport technology. The multi-storey rack system consists of around 450 000 storage areas with space for more than 1.2 million different items. The integrated solution includes around 800 m of conveyor technology, 12 picking stations

with ultramodern pick-to-light technology, state-of-the-art labelling systems, 14 put-away stations on four levels and a warehouse control system to ensure a transparent, clearly structured and automated flow of goods.

In a 2nd stage, SSI Schaefer was awarded the contract to extend the pallet racking area. 12 000 storage locations now offer extra capacity. This optimised and efficient material flow concept perfectly equips Alshaya for the future.





Small parts warehouse shows that size doesn't matter

Distribution centre Migros-Verteilbetrieb Neuendorf AG (MVN) was looking to optimise storage and order picking. A “goods to picker” solution now ensures efficient processes. The Schaefer Carousel System (SCS) provides the dynamism needed for order picking with an integrated high-performance order picking workstation.

Migros is Switzerland's largest retailer. The distribution centre in Neuendorf is the company's national logistics centre for non-food, near-food and frozen goods. When MVN decided to optimise processes in the warehouse, the 12 000 items, 23 500 container spaces, 6000 order lines and the space available demanded creative solutions from intralogistics specialist Salomon Automation, Switzerland.

To provide sufficient space, the general contractor built a double-depth racking row for reserve/buffer locations in the existing high bay pallet storage system.

The addition of a new 24 m high, 2-aisle and double-depth high bay racking system on the edge now provides space for all 23 500 containers. Two double-mast storage and retrieval systems move goods into and out of storage. The storage and retrieval systems can easily access all containers based on a combined telescopic table and swapping fixture. Three carousels of the newly integrated SCS now supply two pick-to-tote order-picking stations with swelling containers as and when required. The SCS is closely linked to the buffer storage, offers 2800 storage locations and can provide up to 700 containers an hour. WAMAS logistics software ensures that the various elements interact properly.

Together the small parts warehouse and carousel system have produced a setup which allows all 12 000 items to be order picked at two “goods to picker” high-performance workstations.





Turning unused space into profit

The SSI Schaefer Group developed a tailored solution for the logistics centre of contract service provider Baur Fulfillment Solutions GmbH (BFS), Weismain, to solve a challenging intralogistics problem. The result is a multi-storey platform system providing storage space for almost 350 000 storage locations. New processing stations and an ingenious material flow concept with compact conveyor technology ensure efficient processes and a 15% boost in productivity.

This just goes to show that big automation solutions aren't always needed for high throughputs. SSI Schaefer produced an efficient storage solution for Baur, a subsidiary of the Otto Group, using a concept involving racking systems and conveyor technology in an existing building.

With 15 million customer contacts a year, 40 million shipments and 100 million goods movements in a storage space of around 250 000 m², BFS ranks 5th amongst fulfilment service providers with similar process chains. An average of 7 million individual parts are finished if necessary, order picked and dispatched for mail order companies, retailers and brand manufacturers. 18 million items and 8 million returns are processed by staff at the site every year.

The existing logistics structures were no longer able to cope with these requirements and the continual growth in orders. At ground level the 12 m high hall was simply being used as a pallet depot. "So we decided to use the entire height of the storage hall, equip the entire hall out for handling goods

and concentrate our storage, finishing and handling of returned goods," explains BFS Managing Director Jürgen Lehmann. An efficient material flow needed to be developed quickly and reliably and implemented in the existing building structure.

"We envisaged a solution with a free-standing, self-supporting platform design. The 3 levels and in some places 4 levels are served using space-saving conveyor technology which is adapted to the platform design," explains Rainer Lautz, project manager for racking systems at SSI Schaefer. A racking system of a size never before produced was built within 4 months. It comprises 67 000 m of uprights and more than 65 000 shelves.

The platform levels and racking systems generated an area of 19 500 m²,

Yankee candles picked by light

The European distribution centre of Yankee Candle® has improved the efficiency of order picking its entire range and minimised picking error rates with a pick-by-light system from SSI Schaefer, England.



Yankee Candle® provides a huge range of scented candles, produced using the world's most select ingredients. To optimise order picking processes, the company wanted to further develop its existing SSI Schaefer live storage shelving. Integrating a pick-by-light system from the intralogistics specialist has produced the desired result.

The new, paper-free system is controlled by state-of-the-art software technology. Extending the centre's equipment takes the strain off staff, reduces error rates and ensures rapid, precise order picking of the scented candles.

Bruce Mitchell, Operations Manager at Yankee Candle®, enthuses: "The new warehouse has boosted efficiency by 50% and halved the number of mistakes putting orders together. Delivery volumes have already risen by more than 40%."



offering storage locations for around 350 000 standard cartons and containers. Around 2.5 km of conveyor technology, roller and belt conveyors and transfer tables connect the different levels and newly set up and linked packing, returns and preparation stations. A load lift was installed in addition to the staircases to allow staff to work on the different levels which are arranged to allow for order picking on all floors.

Since the hall was already in use, SSI Schaefer had to take into account around 100 supporting columns and optimally adapt the flow

of material when designing the site's conveyor technology.

"The solution has increased productivity by 15%," sums up BFS management spokesman Danilo Georg. "The lean conveyor technology means that 15 – 20% fewer storage locations were lost than with comparable solutions put forward by other bidders. The platform design and racking systems have increased our storage location capacity much more than we thought they would. And SSI Schaefer completed the job faster than planned too. A truly exemplary project."



WAMAS® controls trade goods

General contractor Salomon Automation, Switzerland, has optimised processes and cut throughput times at Valora, MuttENZ (CH), a leading European distributor of consumer goods. A manually operated, partially automated order picking system from SSI Schaefer, Graz, with container conveyor system now ensures an efficient, transparent material flow and is managed by the WAMAS warehouse management system.

Originally the retrofit project was to be carried out at the old warehouse in MuttENZ. But just before the start of the project, a new site in Egerkingen offering better logistics and a new infrastructure with further scope for expansion was chosen to ensure the growth planned for the future.

The company wanted to standardise the very differently organised processes. The system complexity which had resulted from years of different software solutions was also to be reduced and the stability and availability of the entire system improved.

Salomon Automation delivered a manually operated warehouse covering an area of around 27 000 m². The WAMAS warehouse management and material flow system will in the future manage the flow of goods and ensure storage process transparency. Working with SSI Schaefer, Graz, the general contractor introduced a partially automated pick-by-light order picking system with container conveyor system for the tobacco sector. Valora has seen logis-

tics costs fall by 14%. “We are particularly proud of the fact that goods flows which previously ran separately from the various order picking areas have



now, with the exception of the ramp, been merged using palletising, offering systematic support and tracking,” sums up Wigand Fox, project manager at Valora AG.



Getting a grip on bikes

At the start of 2010, Veloplus opened a new logistics centre in Rütli (CH). This was the first step taken by the leading supplier of bike accessories towards future expansion.

Not only did Veloplus want the new logistics centre to improve capacity and efficiency. Health and safety was an important criterion too.

SSI Schaefer, Switzerland, resolved these two issues with a single-storey R 3000 modular system, allowing for efficient use of the entire 1600 m² on the first floor. This is now home to around 8000 products for world adventurers, hardcore bikers, commuters and leisure cyclists. Extra high packing tables also give the workstations an ergonomic balance and are practical for order picking while standing.



By continually enhancing its special conveyor technology components and dynamic order picking systems, SSI Schaefer, Graz, offers a wide range of efficient solutions for an ideally organised and economical refrigerated warehouse – supplemented by rapid and uncomplicated services that don't leave the customer out in the cold.

A modular system optimised for this very purpose delivers standardised and individually customised processes. The FT+ module for container conveyor technology is a proven solution which is well established on the market and has now been optimised for use at low temperatures. Perfectly matched components and an ergonomically robust conveyor technology profile ensure maximum availability and high throughput and rejection rates.

Goods sized 240 – 800 mm in length and 200 – 800 mm in width, weighing up to 50 kg can be easily transported at temperatures of down to -30 °C. Bringing together all the experience that the SSI Schaefer Group has in this area has ultimately resulted in smooth system operations.

-30 °C logistics in freezing conditions

The global chain of cold storage units for foodstuffs has become part and parcel of our quality of life. At the very least, frozen veg, fish fingers and pizza make our lives in the kitchen uncomplicated. But rapidly growing demand for such products is providing manufacturers, wholesalers and

retailers with an ever greater challenge. The performance expectations of refrigerated distribution warehouses are on the rise.

To guarantee complete and economic functioning of logistics, companies are increasingly relying on dynamic and highly automated systems.

Quality in all areas

SWIFT assigned the intralogistics specialists at SSI Schaefer, Argentina, with the task of equipping its new storage halls in Pilar, Buenos Aires. It took almost a year to install the colossal refrigerated warehouse project.

SWIFT began life as La Plata Cold Storage in Argentina and is now a member of Brazil's JBS Group, the world's largest processor of beef. It was the first Argentinean company to be ISO 9001:2000 certified.

Quality was also key to the design of this new build. A lot of time was spent on careful planning as the long transport routes required precise and perfect organisation.

There was no room for missing parts or late delivery as this would have re-

sulted in major delays and additional costs.

The company's two refrigeration halls now have space for around 16 000 pallets. Eight mobile racking systems, two of which have drive-in racks, and two cold and normal temperature halls with static racks cover a total area of 9000 m². Four SSI Schaefer conveyor links transport items between goods received and the storage locations. The whole system was installed in compliance with South American standards.





Cold stores in south east Asia

Antara Co. Ltd. and Preferred Freezer Services LLC have jointly built the first automatic refrigerated warehouse in Vietnam to be wholly owned by foreign investors. SSI Schaefer, Singapore, assisted with implementation.

Antara and Preferred Freezer Services are specialists in the supply chain management of products sensitive to temperature. At 92 129 m², this is the largest “single-room cold-store” in south east Asia.

The system has been meticulously HACCP-certified (Hazard Analysis and Critical Control Points), is around 17.5 m high and has space for 23 875 pallet storage locations in just one room. The warehouse temperature ranges from -20 to -25°C.

Preferred Freezer Services also has warehouses in the USA. Known for their high storage density, energy efficiency and greatly reduced error rates at lower operating costs, the new

Asian system is an automatic storage and retrieval system.

Vietnam is one of the world's leading 10 exporters of seafood. In the long term, Preferred Freezer Services plans to build another seven such warehouses to promote development and growth in Vietnam.

Chilled French pastries

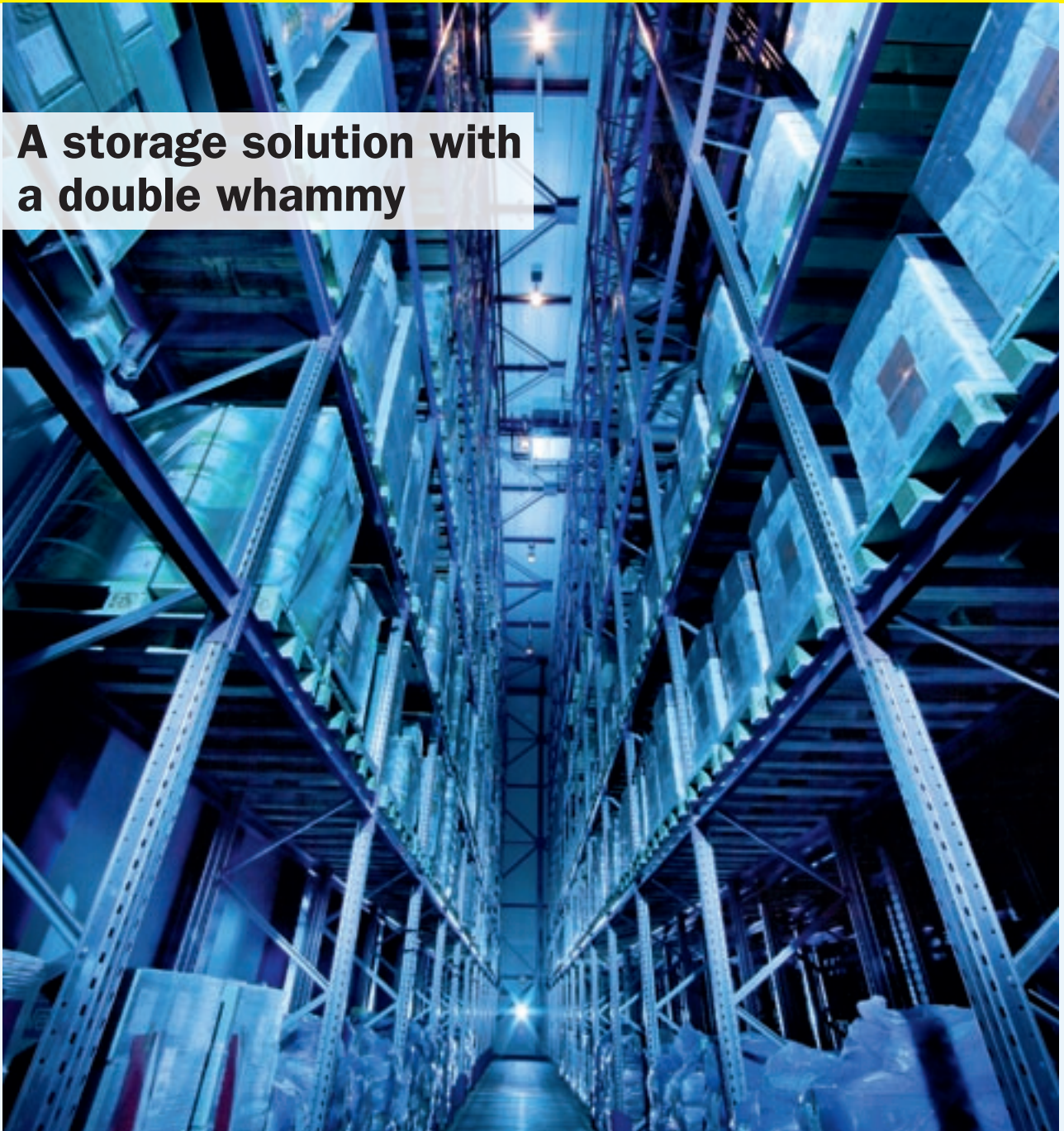
La Mie Caline, which bakes and markets bread and pastries, has built a new 3500 m² platform to store its products. The company tasked SSI Schaefer, France, with the job of reorganising its intralogistics processes.

The challenge was that they needed to combine several types of storage in just 3500 m². The intralogistics specialist therefore had to adapt the setup to different parts of the warehouse using temperature control (+4 °C to +6 °C) and keeping the whole warehouse dry.

A tailored solution, comprising pallet racking with ground level order picking, live storage racking and pallet storage racking, now ensures optimised processes.



A storage solution with a double whammy



Murpf AG, Hägendorf, is on track for future growth so needed to build another logistics centre. The company specialises in the transport and storage of foodstuffs and needed to respond to existing customers' demands for more space while also creating additional storage space for potential new customers.

A high bay, narrow-aisle racking system from SSI Schaefer, Switzerland, ensures optimum space utilisation in the

new hall. Designed and developed for double-depth pallet storage, this is the first of its kind in Switzerland.

The new warehouse hall has a temperature range of 14 – 18°C and can store around 12 000 pallets in an area of 4000 m². It is used primarily as a buffer warehouse for raw, semi-finished and finished goods such as milk powder, margarine and flour which are held in storage before being supplied to the food industry.

The whole project was completed in just eight weeks. By coming up with a solution which allows pallets to be stored at double depth, SSI Schaefer has managed to further increase capacity. The intralogistics specialist single-handedly provided the entire design, project planning, implementation and a PR 600 pallet racking system. The solution reduced the front zone to a minimum, freeing up more space for storage.

High bay racking system with sunshine

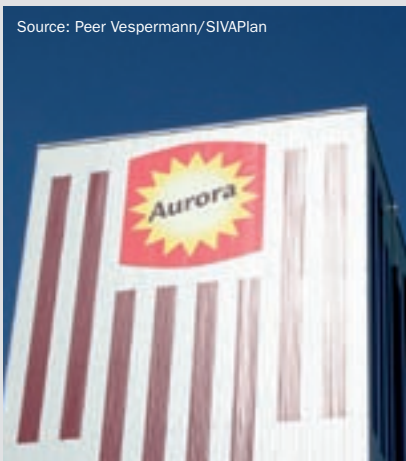
When Aurora finished testing the new fully automatic high bay racking system in December 2009 and pronounced itself satisfied with the result, the smiles on everyone's faces matched the company's sunshine logo. There was nothing else to stop the system entering operation.

As an expert supplier of flour, Hamburg-based Aurora Mühle GmbH concentrates on the production and marketing of high-quality staple foods based on flour, semolina and bakery mixes. The company, which was founded in 1850, employs around 1000 members of staff and operates the world over. It supplies around 120 items to food retailers as well as other products to bakeries and industry.

The company wanted to revamp its warehouse in order to dispense with its numerous external warehouses and to centralise logistics. Once it had been proven that the site was free of unexploded aircraft bombs from the Second World War, work on the floor plate got underway in November 2008.

Working on behalf of the general contractor, SIVAPlan from Troisdorf, SSI Schaefer, Neunkirchen, built the steel backbone of the single-aisle channel storage project in a silo design. Since being commissioned at the start of 2010, a good 300 different items have been housed here on around 4400 pallets.

Source: Peer Vespermann/SIVAPlan



Freshness guaranteed



Innovative solutions are needed to keep food fresh over long distances without losing sight of the costs involved. The folding ECOfresh crate from SSI Schaefer now more than satisfies the requirements of the food industry.

Healthy food, especially fruit and veg, is enjoying a revival. And this is a factor of growing importance in the future. But products have to be reliably transported from producer to consumer and remain fresh over what is often a long logistics process.

It was in response to these demands that SSI Schaefer developed the folding ECOfresh crate: a container for the food industry that is very robust but remarkably light. A special feature of the crate is its innovative folding mechanism which allows it to be quickly and easily folded together, reducing its volume by 86%. Minimising volumes of reusable containers improves truck utilisation rates and reduces the number of costly trips. This has made the container not only uncomplicated to work with but also very cost effective and ecologically sound. Ventilation apertures also ensure optimum cooling and ventilation of the food.



Creative order in modular shelving

When the Architecture faculty at the Technical University in Delft was destroyed in a fire in 2008, SSI Schaefer, Netherlands, was part of a project team involved in its reconstruction. A tailored solution with an industrial look has now restored order.

It all started one Tuesday morning. A water pipe on the seventh floor of the university burst. The escaping water seeped through the walls, dripped into a coffee machine on a floor below and resulted in a short circuit and fire. It took the fire brigade more than 20 hours to bring the fire under control. Above the third floor, the building was totally destroyed and numerous irreplaceable maps and models were lost.

When reconstruction work began, the university got in touch with SSI Schaefer. In 2009/2010, the intralogistics specialist provided various racking systems for the students' new study environment R 1000 and R 3000 modular shelving and long-span shelving systems in particular have again given the library and archives in Delft a creative storage solution.

Inbrief

Safe storage for Indian IT products

Redington is India's second largest distributor of IT products and the largest supplier in the Middle East and Africa. The company provides a wide range of IT and data processing products and is continuously expanding.

Redington has now built a new 12-acre warehouse in Chennai. SSI Schaefer, India, was awarded the contract to construct a very narrow-aisle warehouse offering around 10 000 pallet storage locations and a 4-storey racking system with more than 12 800 storage levels.

Two load lifts assist with transporting goods to their intended storage locations. Using barcodes, all warehouse and provision processes are organised with efficiency and precision.

An earthquake-proof solution in Kuala Lumpur

After the Malaysian peninsula was affected by several earthquakes, Regalia Records Management Sdn Bhd, Malaysia, decided to invest in earthquake-proof equipment.

Regalia is a specialist in document management. The company aims to offer an efficient, safe and reliable all-round service in all areas of document handling and archiving.

Given these requirements SSI Schaefer, Malaysia, has now completed modernisation of a 8-storey, 28 m high earthquake-proof document storage warehouse in Bukit Jelutong, Kuala Lumpur. The warehouse gets its sturdiness from special platforms. Special analyses and calculation methods were de-



ployed to make it earthquake-proof for this seismic zone 1. More than 850 000 cartons are now stored in a footprint of 3200 m².

The new warehouse minimises the risk of disruptions and losses within the facility from an earthquake. It greatly enhances the site in terms of seismic features.



Incredible level of automation in pharmaceutical sector

The new Federació Farmacéutica distribution centre in Gavá, Barcelona, is one of the most modern pharmaceutical distribution warehouses in Spain. State-of-the-art technologies from SSI Schaefer, Spain, have resulted in a forward-looking and highly automated warehouse which is setting new standards.

As well as featuring storage and retrieval systems in the automatic small parts warehouse for taking items into storage and replenishing stock levels, the system also has ultramodern conveyor technology and order picking machines. The integration of a warehouse management system (WMS) also developed and supplied by SSI Schaefer rounds off the material flow. The WMS also monitors goods received for the lab and warehouse and the automatic replenishment of stocks with batch

number tracking, ensuring that the whole process from order picking to dispatch to the customer is monitored. Comprehensive quality checks guarantee smooth processes along the entire logistics chain.

The new distribution logistics for what is close to a 8000 m² system is now fully operational and supplying pharmacies throughout Barcelona.

In addition to planning, installing and commissioning the automatic order picking system, the intralogistics specialist also equipped the warehouse with racks for the automatic small parts store, pallet, provision and modular shelf systems and all the containers for the automatic small parts store and Schaefer's carousel system.



Regularly reinventing the wheel



In 2009 Blickle Räder+Rollen GmbH & Co. KG, Rosenfeld, got the ball rolling on construction of a new logistics centre to optimise internal logistics. Through this investment, the management intends to improve international competitiveness.

Blickle started producing high-quality wheels and castors in 1953 and is now one of the world's largest manufacturers in this sector. Employing more than 600 staff members, 400 of whom work at the company's base in

Rosenfeld, it develops the right wheel, castor or roller for any application.

Jungheinrich AG is the general contractor for this logistics project and based on successful experiences, appointed SSI Schaefer, Neunkirchen, to build the two racking components and provide suitable containers. The main challenge here was having to accommodate heavy raw materials, semi-finished and finished products.

The high bay silo is designed with 15 300 storage spaces for mesh

boxes weighing up to 1500 kg. Around 27 000 containers, weighing up to 60 kg, are stored double depth in the automatic small parts store.

Despite the extreme cold weather experienced during construction, assembly work on the two high rise racks was completed on schedule in the summer of 2010. The new logistics centre will be up and running before the end of the year.

ECOtech

SSI Schaefer, Neunkirchen, has developed a new container for industrial applications. The new generation of ECOtech folding boxes feature an active safety lock and ergonomically shaped handles to enable them to be quickly and reliably folded together as the user sees fit. This reduces the container's volume by around 80%. ECOtech is intended for all small parts warehouse applications and conveyor technology and can be fully automated. With a load capacity of around 35 kg and a usable inner volume of 55 litres, the folding box is suited to numerous possible uses in industry, trade and the service sector.



The variant with a display aperture on both sides and sliding mechanism enables products to be reliably accessed at speed. The large removal aperture at the face end not only increases picking rates but also allows items to be easily removed through the display flap when stacked. The company logo can either be injection embossed or hot embossed on both variants. On request, inscriptions can also be provided using in-mould labelling, smart labels or RFID.



John Deere – destination Moscow

John Deere, the global market leader in agricultural technology, has opened its new plants and a new spare parts centre in Domodedovo near Moscow. This represents the company's biggest investment to date in Russia – a project valued at around \$125 million. SSI Schaefer worked with Russian importer Kravtel to implement the project.

The new site comprises production plants for assembling tractors, combine harvesters, and construction and forestry machines. The spare parts centre located in the same building complex works in parallel to supply the Russian market with spare parts, operating supplies and accessories.

Before the company decided to build this new plant, its two smaller Russian warehouses were already operating at full capacity. They could no longer guarantee fast spare part supplies to the entire Russian market in the long term.

To ensure a material flow in the new plants suited to future changes, SSI Schaefer provided the US agricultural machinery manufacturer with pallet, modular and cantilever arm shelves. Covering an area of around 23 500 m², the centre now has 140 000 storage locations and a transport volume of 86 trucks to ensure an efficient spare parts supply. John Deere uses pallets and wooden crates as load carriers.

"The factors key to the success of this project were joint, long-term planning and daily detailed updates on site," says Peter Knapp, Head of Russian Parts Operations at John Deere. "The project was shaped by open communication between SSI Schaefer and John Deere and a willingness to jointly tackle any challenges quickly and with a solution-based approach. As a result the project was completed before harvesting began," adds Stefan Haas, who is responsible for material flow technology in John Deere's European spare parts centres.

Airbus spare parts stored efficiently

SSI Schaefer, Neunkirchen, took a flexible, low-cost approach to storing long parts and thereby optimised storage and order picking processes at airline equipment provider Interturbine, Kaltenkirchen (Germany), without introducing automation. Interturbine deployed the tailored solution to increase performance, improve product protection and achieve the best possible use of space in its warehouse.



As a partner to Airbus, Interturbine supplies airlines with the consumables they need and stores around 500 000 items in its central warehouse. In order to keep pace with the trend of increasing order volumes with smaller batch sizes, the company decided to make full use of the limited space it had available through use of a modern equipment concept and optimized processes. SSI Schaefer impressed the company with its flexible approach, focusing on both the vertical and horizontal storage of long parts, best possible use of space and efficient order picking processes.

“The entire solution was installed in a working plant within three days without our customers experiencing any outages,” explains Klaus Breer, Managing Director of Interturbine Transport Service GmbH.

Working with a space of around 60 m², SSI Schaefer designed a 2-storey rack unit with mezzanine platform approximately 3 m above the floor. To increase flexibility and safety, the individual rack-ing bays in the upper area between up-rights are equipped with beams and can be filled without affecting overall stability. The height of the beams used can be changed depending on the length of the items in storage, allowing the storage locations to be used for any items.

“The aisle width to other rack units has increased considerably. The clear and flexible way in which items are arranged in the compact rack unit has freed up areas which we can now use as intermediate buffers for goods received,” sums up Klaus Breer.

Logistica10: distribution today and tomorrow

Once again SSI Schaefer, Graz, was invited to the three-day Logistica10 symposium in September. In an area of 2000 m², the intralogistics specialist wowed the large number of international visitors with direct access to experts, practical presentations and state-of-the-art technologies.

"Distribution Today and Tomorrow – Solutions, Concepts, Performance" was this year's topic and proved a real hit with visitors. Following this theme, SSI Schaefer presented multi-industry solutions addressing requirements of tomorrow. As always, the very latest innovations were on show and explained in detail by development staff.

The Logistica format is popular because this event is an appropriate platform for dialogue between experts and decision makers. Comments like "I am leaving with a great feeling of trust for SSI Schaefer" from a Canadian visitor prove that this year's event was once again a success.



Automation – working for the e-logistics market

More than 60 delegates, leading retailers and consultants from all over the UK attended SSI Schaefer's "Automation for e-Logistics" event in Leicester.

Focusing on current trends, the expectations of customers and companies and the importance of smoothly functioning supply chain management, the participants discussed the rise of e-commerce.

The Office Depot warehouse efficiently set up by SSI Schaefer, England, provided a point of reference. This gave participants the opportunity to assess an ideally implemented material flow concept for themselves during a VIP tour. Here the leading supplier of office products and solutions order picks around 36 000 cartons and 75 000 orders in 12 hours of every day.

Trade fairs and conferences 2010

BVL KONGRESS Berlin | 20 – 22 October
ORGATEC Cologne | 26 – 30 October
SKLAD Moscow | 26 – 30 October
IMHX NEC Birmingham | 16 – 19 November
PACK & MOVE Basle | 16 – 19 November
MANUTENTION Paris | 22 – 25 November

Preview of trade fairs in 2011

WIN WORLD OF INDUSTRY Istanbul | 3 – 6 February
LOGIMAT Stuttgart | 8 – 10 February
INTEC Leipzig | 1 – 4 March
CEMAT Hanover | 2 – 6 May
TRANSPORT LOGISTIC Munich | 10 – 13 May
INTERPACK Duesseldorf | 12 – 18 May

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