

SSI SCHAEFER

update

Company magazine of the SSI SCHAEFER Group

Bestpractice



Automated order picking for bookworms

Top topic



SSI Schaefer
at CeMAT 2008
hall 13 | stand C20



Dear Reader,



One of the most important events in the logistics sector takes place in Hanover this year.

On 27th May, CeMAT will open its doors. The intralogistics exhibition will not only be larger, but will also be more wide-ranging than in the year 2005. As well as its status as a leading international exhibition, it places great emphasis on promoting innovation, and highlights trends for the customer's benefit.

SSI Schaefer uses this important platform to demonstrate the innovative power and performance of the company group. We have set ourselves some ambitious goals for our exhibition presence. You can read more about this in our top topic on page 3. We look forward to seeing you in hall 13, stand C20.

No doubt you have already noticed the design of our company magazine has changed somewhat. To make the articles even easier for you to read, we have revised the layout and content.

From now on we will be reporting in even more depth - across 16 pages on best practice reports, trends and new developments from the SSI Schaefer Group, as well as providing conference and exhibition news.

I very much hope you enjoy reading this latest edition of the magazine.

Best regards,

Klaus Tersteegen
SSI Schaefer Executive Board



Cover picture: CeMAT 2005, Impressions SSI Schaefer stand

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EXPERIENCE INTRALOGISTICS LIVE - SSI SCHAEFER AT CEMAT 2008

There is barely a sector of industry that is currently enjoying more of the limelight worldwide than the future-oriented sector of intralogistics. CeMAT, the world's leading intralogistics exhibition, is taking place from 27-31 May 2008 in Hanover under the slogan "Discover Intralogistics".

High-tech in live operation

Visitors to the exhibition stand will experience intralogistics live and will be able to follow the interaction between warehouse software, ergonomic order picking workstations and automated storage and conveying systems directly. Product innovations in storage, conveying and order picking technology



will be presented live, along with innovations in other areas. A high bay pallet storage system and an automated small parts system, equipped with the latest storage and retrieval equipment

from SSI Schaefer, will also have their efficiency put to the test. Many of the standard coverings have been replaced by safety glass, meaning that it is possible to see the complex processes taking place inside the systems.

New - worldwide exclusive

The highlight of the exhibition presence is the world first in the field of automatic order picking. SSI Schaefer will present a fully automated order picking system for the food trade and related industries. The concept covers the consistent and fully automated processing of goods delivery through to outgoing goods preparation on pallets and in roller containers. The revolutionary system will be presented live for the first time in Hanover.

Experts will present trends in intralogistics

To complete the range of information available to visitors, there will be a user forum where speakers will debate the various aspects of storage and picking systems and discuss the requirements of their practical applications. The exhibition programme also includes presentations on the high-



lights of the Schaefer exhibition stand. In-house experts will illustrate potential applications for the latest product and system innovations and will be available for follow-up discussions.



SSI Schaefer will be exhibiting at a 2500 m² stand – practical, relevant and transparent

arvato ...the spirit of solutions



"20 PERCENT GROWTH INDICATES THAT THE DECISION WAS CORRECT."

Andreas Koch
Head of VVA Central Logistics



ORDER PICKING FOR BOOKWORMS

*270 tonnes of material
2200 metres
of handling technology
290 converter units
35,800 conveyor rollers*

For rapid, efficient order processing, the company arvato media GmbH, Gütersloh, Germany - a 100% subsidiary of Bertelsmann AG - depends on dynamic picking systems from SSI Schaefer.

"With automation and conversion to the "goods to picker" principle, we have improved the efficiency of our logistics in a sustainable way", explains Andreas Koch, Head of Central Logistics at Vereinigte Verlags-Auslieferung (VVA), an arvato media GmbH company.

Each year, more than 100 million books are dispatched from the Gütersloh site alone on their way to German bookshops or directly to readers. In 2005 the company decided to re-design its logistics processes. An important requirement in the planning work was interlinking the conveyor technology and all order picking sections to reduce transport and freight costs.

The bid as general contractor for intralogistics was awarded to SSI Schaefer, Giebelstadt. Basis for the design: An automated small parts storage system with 24,000 container storage spaces

as well as 24 Schaefer carousel systems ensure increased throughput and optimised manufacturing processes. The consistent transparency and problem-free control of processes between high bay racking (HBR) and preparation for shipping is controlled by the "ant" warehouse management software.

A particular challenge: "The project needed to be implemented during productive operation", explained SSI Schaefer Project Manager Davide Carlet. "The first two construction stages of the project - which was originally planned as three stages - were also implemented in one step." At the start of 2007, the new system components were stacked with the books and the system was put into full operation.

"Thanks to the new order picking and supply concept we have been able to increase productivity and capacities considerably using the same space, which will make us much more competitive overall. 20 percent growth indicates that the decision was correct", according to Andreas Koch.





For Office Depot UK Ltd in Manchester, SSI Schaefer, Graz, has fitted out a new distribution warehouse. A customised mix of automated and semi-automated picking systems as well as optimum space utilisation provides the leading international provider of office products with increased delivery quality, time and cost benefits.

Office Depot UK Ltd implemented a future-oriented logistics concept when redeveloping their 28,000 m² sized distribution centre in Manchester, England. "The new distribution centre represents a future-oriented solution for the Office Depot group, and will form the basic concept for further distribution centres", explains Bernd Schiel, Senior Project Manager at Office Depot.

Around 12,000 different products, in particular office goods and machines as well as computer software and PCs, are stored in the new centre. In addition to the compact layout of the order picking areas and around 3.3 kilometres of the latest conveyor technology, central components include in particular an automated S-Pemat picking system, a live storage system with pick-by-light system as well as an automated storage and retrieval system (ASRS). The underlying principle



Office DEPOT
Taking Care of Business

One of the most productive warehouses in Europe



in all areas: paperless order picking. A special feature in Manchester: a special tubular bagging system. The small parts are packed in plastic bags at the end of the automatic order picking process. This ensures easy handling for the stock when assembling the total order, and offers the end customer a simple retrieval method from the order carton delivered.

On a basic area of 280 square metres, the system offers a capacity of up to 6000 items in 10,000 storage locations. In total, the system at Office Depot is designed for a daily throughput of 35,000 cartons.

With the commissioning of a new logistics centre, the company Marburger Tapetenfabrik in Kirchhain, Germany has increased the performance of its internal logistics considerably. The company, founded in 1845, manufactures more than 4000 different wallpapers and supplies customers in 84 countries. 3000 packages and 500 pallets - with the trend increasing - are shipped daily. The delivery of small quantities, rolls of wallpaper in one to two cartons, has also increased significantly with 1000 shipments per day. SSI Schaefer supplies the warehouse technology, and the general contractor is the company Klinkhammer Förderanlagen GmbH. A decisive role for the optimised warehouse processes is played by the two-aisle automated small parts system. With dimensions of 36 x 8 x 13 m (LxWxH), it offers capacity for 12,384 special containers with double-depth storage. An unusual feature in the automated small parts system is the use of mirror-welded containers which are used to store rolls of wallpaper which at 1040 mm are double the width of normal rolls.

The LTB automated container was manufactured specifically for Marburger Tapetenfabrik for the first time at a height of 420 mm instead of the previous maximum standard height of 320 mm. The inward storage of full, article-free and batch-free euro pallets is relatively simple: The high bay racking set up as a silo racking system with dimensions of 106 x 22 x 36 m (L x W x H) provides space for 15,420 euro pallets in five racking aisles. Coming from production, the pallets enter the high bay racking via the fully automated conveyor technology and are stored here in an unordered fashion.

The processes for removing partial quantities are more complex.

These are retrieved from the automated small parts system. Controlled via the LVS, two fully automated storage and retrieval systems and the conveyor systems transport the storage containers into the picking area. Here the item positions are picked at four workstations and after packaging, are transported to the shipping department via a conveyor belt. The remaining quantities are put back into storage. Jens Beinecke summarises with satisfaction: "With the new storage technology, the optimisation of time and paths, as well as the separate infeed and removal of the storage containers, mean that orders with very different requirements can be processed quickly and reliably, even at peak times."

Wallpaper for the world market

The architecture of the new logistic centre is visually striking: The front section of the high bay racking is glazed and is lit up in blue in the evenings.

Jens Beinecke, Marburger Tapetenfabrik, explains: "The reasons for the new logistics centre are the increase in the production volume and the simultaneous reduction in the ordering intervals."



With a first cut of the spade celebration, SSI Schaefer began construction of a modern technology centre. At the company site in Giebelstadt, Germany, SSI Schaefer Directors Harrie Swinkels and Rudolf Keller, together with Rainer Steinbach, Technical Manager at SSI Schaefer, and Architect Matthias Versbach personally oversaw the initial work to found the new, 15 metre high building complex.

Across an area of 4500 square metres, the specialists in intralogistics in Giebelstadt will in future research new technologies and integrate innovations into the development of new,

sectors of the SSI Schaefer Group. "With the technology centre, we will combine the capacity for innovation across the company and make the development of market-led systems designed transparent to our customers", explains Harrie Swinkels.



from left:
Harrie Swinkels, Rainer Steinbach, Rudolf Keller, Matthias Versbach at the first cut of the spade

TECHNOLOGY CENTRE FOR INTRALOGISTICS

customer-oriented products. In addition, the plan is to use the future-oriented technology centre as an events location for the highly regarded automation congress. With a showroom spanning various sectors for the presentation of numerous new products, the new building will in future also act as an exhibition site for all company

"This means we are meeting our customers' growing need for information, and are also offering the opportunity to physically experience modern components in intralogistics."

The completion of the test and technology centre of SSI Schaefer is planned for Summer 2008

SSI Schaefer intends to position itself as a market-leading system supplier for intralogistics for the paper industry, refrigeration and drinks sectors in the coming years.

To that end, SSI Schaefer, Giebelstadt, has now combined its sector-specific expertise in automation to form special business units. Modern storage systems and optimised process workflows can significantly increase existing storage capacities. To do this, SSI Schaefer offers a modular designed product range, from which the solutions were developed which are tailored precisely to customers' individual requirements.



SECTOR-SPECIFIC SOLUTIONS in business units

The equipment available includes storage systems, channel storage systems and double-depth high rise racking as well as conveyor technology and order picking systems which offer optimum

automatic operation. Powerful IT solutions ensure modern automation. This results in future-oriented solutions for efficient intralogistics.

"We want to develop an awareness within these sectors for the potential for optimisation and rationalisation."

Jörg Wurlitzer
Sales Manager for Unit Load Solution

Stryker Corporation is one of the world's leading manufacturers and suppliers of orthopaedic and medical products. To match the growth in production of the English subsidiary in Newbury, Berkshire, SSI Schaefer UK was awarded the contract to reorganise the distribution warehouse.

The aim was to create problem-free process workflows. SSI Schaefer installed a shelf-bearing platform design based on the R 3000 modular shelving system to increase order picking

Productivity gains for Stryker UK



performance and storage capacity. Nicky Kennett, Stryker Corporation, says: "We awarded the contract to SSI Schaefer due to their comprehensive planning capabilities. The flexible solution even persuaded us to centralise our decentralised warehouses." In the ground-level modular shelving, Stryker stores small parts, and bulky goods are stored on the platform level.



WAREHOUSE TECHNOLOGY FOR *Johnson & Johnson*

The logistics solution developed by PostLogistics exclusively for and with Johnson & Johnson Medical DePuy was put into operation at the end of 2007 in Villmergen, Switzerland.

With over 100 years of experience, DePuy is one of the most renowned, market-leading companies in endoprothetic supplies in the fields of orthopaedics, surgery and traumatology. The requirements of Johnson & Johnson are high not only in terms of the products, but also for the new logistics centre. This is the only way to ensure that all hospitals, doctors and patients receive the supplies they need.

In their search for a logistics solution for storing operation sets, instruments and various joints or jointed part implants, DePuy decided in favour of the Swiss logistics providers Post Logistics and SSI Schaefer.

Johnson & Johnson avoids dependence on IT systems and machines and decided in favour of manual storage systems. Across the area of more than 1000 square metres in the new DePuy logistics centre, the shipments to hospitals are dispatched overnight

by 6am at the latest thanks to the "innight medica" services from Post-Logistics. The modular shelving solution from SSI Schaefer Switzerland ensures highly efficient storage of the goods. For example, storage compartments were designed for the operation sets, totalling more than 1000, whose first dividing shelf is fitted at a height of 1.6 m. A design challenge was provided by fire safety regulations



which necessitated a distance of 15 cm between the individual shelf units. Using a special construction designed to this measurement, SSI Schaefer was able to meet this requirement as well.



Sales centre for Brazilian pharmaceuticals giant



The basis for a powerful sales network: fully automated sales centres.

Profarma supplies 87.9 percent of the Brazilian marketplace with pharmaceutical and chemist supplies. This makes the pharmaceutical giant, headquartered in Rio de Janeiro, one of the 20 largest company groups in Brazil. Eleven strategically located shipping warehouses, five of which are fully automated, form the basis for the powerful sales network. Four of these five fully automated warehouses were fitted out by the South American subsidiary of SSI Schaefer. The most recent order was the distribution centre in Curitiba, Paraná, which was successfully completed in July 2007. SSI Schaefer supplied the shelving, conveying and order picking technology. A special feature of the distribution centre is the perfectly matched combination of fully automated and partially automated order picking technologies. This enables over 35,000 items to be order picked each hour, and Profarma achieves an outgoing goods rate of 1000 orders per hour. The material flow is designed as follows: A multi-use transport container passes through a container conveyor from a starting point in the logistics centre. Seven S-Pemat systems with a total of 560 channels pick fast turnaround items in a fully automated system, 12 K-Pemat modules with 2400 channels are used to order pick moderately fast turnaround goods. After the weight of the container is checked, the container is conveyed onwards into the semi-automated picking area with live storage system and modular shelving, and prepared for dispatch.



Order picking of fast turnaround items.

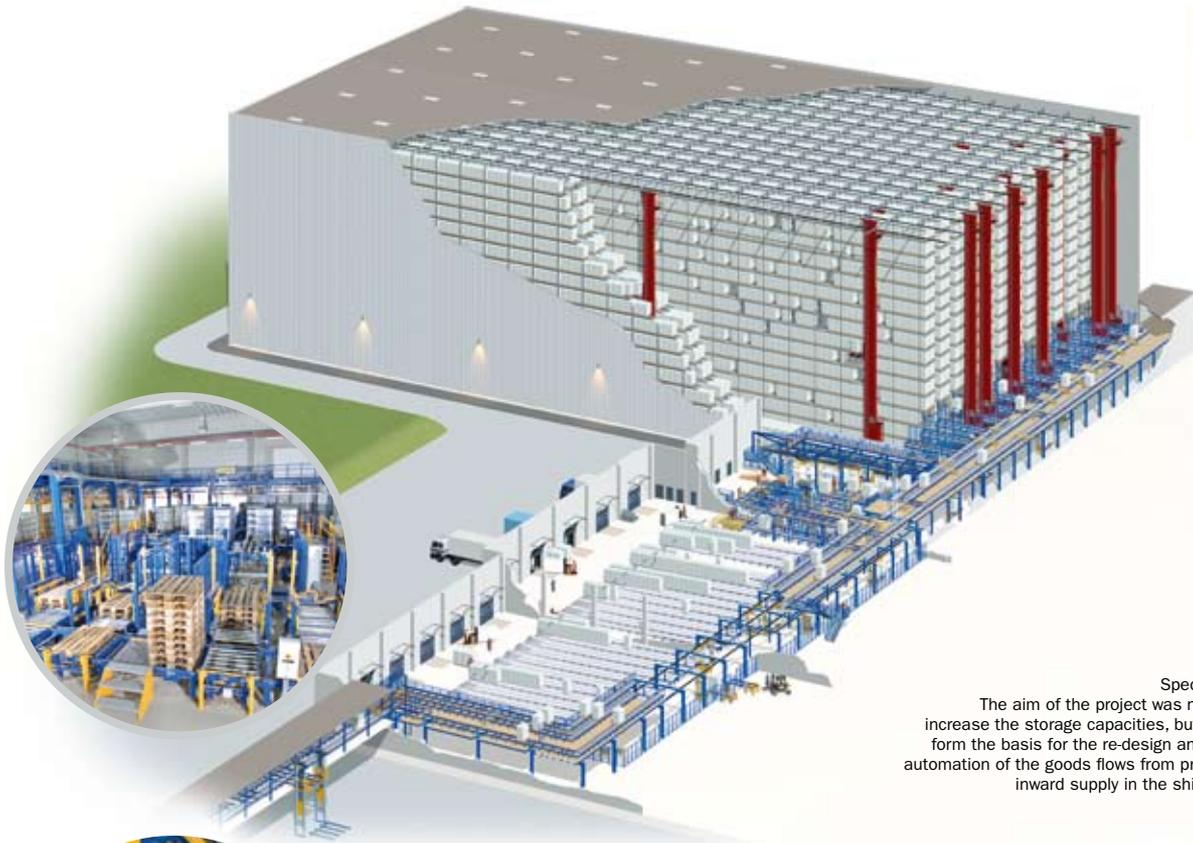
The Smith Drug Company is one of the leading drugstore wholesalers in the American marketplace. More than 1000 independent chemists, care home suppliers and hospitals are supplied with medicines, sanitary and hygiene items by the third largest pharmaceuticals company in the USA. An increasing number of orders, continually changing customer requirements in the booming US economy, and a new, automated order system meant that the company was searching for a new and powerful logistics solution for the shipping warehouse in Spartanburg, South Carolina.

Distribution centre for US pharmaceutical trade



The highlight of the new logistics centre are the three order picking lines with A-frame automated order picking units with a total of 6264 order picking channels.

SSI Schaefer, Graz, reorganised what was previously a primarily manually operated warehouse during productive operation, and converted the site into a powerful warehouse with an 80 percent level of automation. The highlight of the new logistics centre are the three order picking lines with A-frame automated order picking units with a total of 6264 order picking channels. The installation of the new warehouse technology has enabled the company to increase the productivity of the logistics centre by 30 percent and reduce warehouse costs. Since being awarded a follow-on contract, SSI Schaefer is planning further projects for the pharmaceuticals company.



Special feature:
The aim of the project was not solely to increase the storage capacities, but to instead form the basis for the re-design and complete automation of the goods flows from production to inward supply in the shipping area.

Outgoing goods performance almost doubled



“Increasing the output rate is relatively simply to implement in the drinks industry”, explains Winfried Assmann, Head of Logistics for the Brandenburg-based company Urstromquelle, with an annual production of almost four million hectolitres and around 60,000 filled units per hour, one of Germany’s leading drinks filling operations. “The challenge is implementing a warehouse solution that

fits in with production and rapid preparation for dispatch.” Flexible goods buffers and efficient goods flows are required at peak times in particular. In this context, the

filling company awarded the contract to modernise and expand its production site in Baruth, Brandenburg, Germany to intralogistics provider SSI Schaefer, Giebelstadt. Following a bid process, the general contractor was awarded the extra contract to set up an additional 14-aisle automated pallet warehouse with almost 45,000 storage spaces. The range of services included the planning work,

the 8000 m² base plate, constructing a 20 x 41 metre intermediate building, fire protection with sprinkler system, constructing the roof, walls and steel shelving system, delivering and installing the conveyor technology plus the storage and retrieval system, as well as IT and control technology. Using a virtual simulation model, the Brandenburg company, together with SSI Schaefer, developed a goods flow concept which facilitated the inter-

- High delivery reliability
- Optimised use of space
- Concentration of storage areas
- No need for seasonal warehouses at peak times

linking of the production lines, the two HBW were linked into a common IT system, and a loading zone with two halls as well as gravity roller tracks permitted optimised goods supply.

Since August 2007, the system has been in actual operation in Baruth; and according to Assmann “is running perfectly”.



lay temperatures

Just a few months following the signing of the contract, the basic construction of the new refrigerated warehouse for the Dutch logistics service provider Partner Logistics began to take shape. The contract logistics company, specialising in the storage of refrigerated goods, commissioned SSI Schaefer to set up a high bay racking system in Ieper, Belgium. The four-aisle channel warehouse, set up as a silo racking system, has the dimensions 34

x 65 x 142 m (LxWxH). At an ambient temperature of -28 °C, more than 65,000 pallets in the fully automated high bay racking system can be filled with different frozen goods, such as ice creams, sorbets and ice. A total of 2800 tonnes of steel has been used for the construction work so far. The warehouse is scheduled for completion at the end of May 2008, when it will be put into operation.



► Quinn Radiators awards follow-on contract

In 2006, SSI Schaefer UK supplied storage technology to the Quinn Radiators subsidiary in Newport, Gwent for the first time. The company is Europe's leading manufacturer of radiators. SSI Schaefer is currently expanding the multi-storey platform system with an extension and is supplying the shelf containers. With the extended platform, Quinn has been able to virtually double its storage capacity for more than 10,000 articles. The goods stored are small spare parts for production machines

► Schaefer Satellite System works for CurlySue Korea



Founded in 2001, CurlySue is the brand that first introduced the concept of character clothes for children in Korea. With their creative design and high product quality, they have become the third largest kids' apparel company with the widest distribution network in Korea within their brief 6 years of establishment. CurlySue's products are seasonal and took up much storage space, especially during the interchange of seasons. Hence, in order to optimize floor area in the new 6,500 m² warehouse, SSI SCHAEFER Korea recommended the use of Schaefer Satellite System (SSS) instead of conventional Drive-in pallet racking. The new central warehouse in Paju replaces the old Tanhyun warehouse and distributes to all CurlySue's outlets over Korea. The bulk of the clothing is stored in the SSS, which comprised of 2,710 pallet locations in total.



der picking, workflows and work times have been successfully optimised to be able to handle current and future requirements for delivery performance. The existing container warehouse, consisting of four double entry aisles, was set up in an existing hall directly in the centre of the warehouse totalling 20,000 m² and is 54 metres long, 16 meters wide and 8 metres high.

The warehouse was fitted with four fully automated storage and retrieval systems running at a speed of up to 240 m/min, thus achieving around 120 stress cycles per hour and per unit. They transport either one or two containers and store them at either single or double depth.

Sanitary wholesaler implements a small parts storage system

The Elmer GmbH & Co. KG, Bottrop, Germany, wholesaler for sanitary, heating and air conditioning supplies, optimised its small parts order picking system in its central warehouse in Autumn 2007. The core of the logistics solution, developed jointly with viastore and SSI Schaefer, is an automated container warehouse with

more than 41,000 container storage locations.

The new warehouse offers more than simply additional capacity. It also represents the next logical step towards transparent logistics processes which can be tracked at all times. In addition to the exclusively no-documentation or

In addition to the entire shelf construction, SSI Schaefer supplied and fitted the front platform for switchgear cabinets, approx. 21,000 storage containers in the dimensions 600 x 400 x 120 mm as well as around 20,000 storage containers of 600 x 400 x 270 mm.



“We chose SSI Schaefer as the supplier for the warehouse equipment because we had already had very positive experiences with them in previous projects, including with a small parts storage system in Dormagen.”

Elke Anders
Authorized Signatory at Elmer GmbH & Co. KG.



Complete fitting of full range provider

Storage technology and office equipment from one source

Well-planned facility equipment is important to the success of a company. This fact is clear to the international logistics service provider Hellmann Worldwide Logistics GmbH & Co. KG in the planning of the European Logistics Centre (ELC), near Munich.

SSI Schaefer undertook the fitting of the site as the general contractor. This included not only the supply of the shelving systems, containers, conveyor technology, control and operating equipment (we reported on this in more detail in our edition of 2/2007), but also the office equipment.



Keeping pace with series ESX mobile racking trolleys



General cargo transport is the core business sector at the Swiss company Holenstein AG. In the past decade alone, capacities have more multiplied by more than ten times at the warehouse site of Schwarzenbach. To keep pace with this level of growth, Holenstein AG put their trust in SSI Schaefer, Switzerland.

The purchase of the first heavy load mobile racking system for storing tyres from the Japanese manufacturer Yokohama paved the way for the first 2000 pallet storage spaces. For the 30 to 60 thousand tyres stored each season, the mobile system was combined with fixed shelving. In the years 2001 to 2006, Holenstein expanded the storage capacities in Schwarzenbach to around 25,000 pallet storage spaces. One of the largest projects in this connection was the construction of a new hall with 7500 pallet storage spaces for storing yoghurt pots from Albiplast AG. To fully exploit the area and height of the hall, two mobile racking systems were positioned one in front of the other.

**Current storage expansion:
Mobile racking system
for 2500 pallet locations**

The new mobile racking trolleys in the ESX series are being used here for Holenstein AG for the first time, which the Finnish tyre manufacturer Nokian is profiting from as a customer of Holenstein AG since the end of 2006 with a warehouse stock level of up to 70,000 tyres.



In the ten office areas of the administration divisions, 39 workstations were equipped with the relevant organisational units such as fixed or roller containers as well as sideboards and high-rise cabinet systems.

Hellmann project manager Stefan Porcher: "We were looking for a partner who was able to act as a full-service contractor to plan and quickly implement the set-up process according to customised requirements and ground plans, right through to the turnkey handover."

A key criterion for choosing the furniture system was played by the cost/benefit ratio and the use of environmentally friendly materials.



 **Germany**

CeMAT

International exhibition for intralogistics
Hanover | 27 - 31 May 2008

AMB

Int. exhibition for metalworking
Stuttgart | 9 - 13 September 2008

Retail Forum 08

SSI Schaefer
Giebelstadt | 11 - 12 September 2008

automechanika

Leading int. exhibition for the car industry
Frankfurt a. M. | 16 - 21 September 2008

ORGATEC

Office & Object
Cologne | 21 - 25 October 2008

BVL Logistik-Kongress

25. German Logistics-Congress
Berlin | 22 - 24 October 2008

 **Europe**

RWM

Exhibition for recycling and waste disposal
GB-Birmingham | 16 - 18 September 2008

Logistica 08 SSI Schaefer

Graz, Austria | 24 - 26 September 2008

Automation Congress SSI Schaefer

Farmacol Company
PL-Katowice | 04 November 2008

Pack&Move

Specialist Swiss exhibition for integrated logistics solutions & packaging technology
Basle, Switzerland | 18 - 21 November 2008





OPTIMUM SUPPLY

From a base in Weißkirchen, Upper Austria, REXEL Austria GmbH supplies Austrian electricians, installation engineers, industrial and service companies with lighting, installation and security technology, industrial equipment as well as small electrical goods. The REXEL Group is a world market leader in the distribution of electrical installation material with 2600 branches

in 34 countries. A worldwide workforce of 34,800 employees contributed to the 2007 sales figures of 14.3 billion euros. REXEL decided on storage technology for storage and retrieval of approximately 30,000 different items in the new distribution centre from SSI Schaefer Austria.

A converted area of 16,000 m² storage space and 200,000 cubic me-

tres provides storage for 12,000 pallet storage locations. Small parts are stored in a three-storey platform system with a total of around 15,000 metres of dividing shelves. Other sections of the storage facility are equipped with cantilever and cable drum shelving. This central warehouse means that up to 40,000 items are available immediately.



Productnews

In the shape of the SCC (Schaefer Compact Crane), SSI Schaefer offers a new, fundamentally optimised storage and retrieval system. The system was developed for standardised loading units, high bay racking up to approx. 20 metres in height and storage modernisation projects.

With its service and equipment features, the compact conveyor system covers almost 70 percent of the market's requirements. The SCC is up to 15 percent lighter than standard storage and retrieval systems. The new Schaefer Compact Crane is available in two versions; SCC-SD for single-depth and SCC-DD for double-depth storage.



At the Neurath power station site, RWE Power has set up a logistics centre for small parts and pallet goods. The new central warehouse stores around 90,000 items which power stations and strip mining operations require for their daily work. The order picking is carried out in a highly modern automated small parts storage system and a pallet warehouse. The construction costs were around 9.5 million euros. The logistic processes of the logistics centre totalling around 7000 square metres were planned with Langen Consulting Engineering GmbH.

SSI Schaefer supplied the storage technology. “The new logistics centre means that we will increase the supply quality for our operations. Our sites can be serviced more quickly, more flexibly and with more precise timing”, explains Ulrich Teppler, Logistics Centre Manager. The pallet warehouse provides space for 8820 pallets. Using narrow aisle or reach trucks, the staff convey items for immediate usage (such as work safety gloves or goods for the hygiene sector) from the pallet directly in cartons which are transported to the operations using small loaders.

The automatic small parts storage system, on the other hand, follows the “goods to picker” principle, which means that items such as screws, electrical installation materials, cleaning agents or parts for work safety equipment are requested and picked here in a fully automated system. The delivery also included a further approx. 35,000 Euro-Fix boxes.

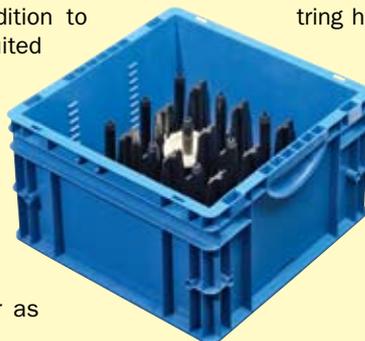


NEW LOGISTICS CENTRE FOR RWE POWER



The automatic small parts storage system follows the “goods to picker” principle

New to the product range from SSI Schaefer is the workpiece holder “WT 44250”. In addition to use in manual handling, it is ideally suited to automatic parts removal. The modular system container with the basic dimensions (LxWxH) 400 x 400 x 250 millimetres consists of the box and inlet elements and carries a content load of up to 35 kilograms. The container inserts are available as either extruded, vacuum-formed or made-to-measure inserts made from plastic, or as steel inserts.



Special features of the new fabricated insert are the centring holes and grooves, as well as lugs in the interior of the container. These are used for the precise positioning of the inserts and protect the inlet against accidental removal in automatic handling.



Spare parts logistics



Emirates Airline has gone the extra mile to ensure that aircraft spares will be always be available when needed. At its central store in Dubai are spares totalling 30,000 part numbers, ranging from nuts to bolts to valves and engines for its entire fleet of some 100 aircraft for passengers and freight.

Emirates Gone Extra Mile

Emirates Airline is one of the most trusted names in the aviation industry. As the airline blazes ahead with its ambitious fleet construction programme for over 100 aircraft, including 45 Airbus 380-800 super jumbos and 58 Boeing 777s, which will more than double the fleet size, its spares inventory will have to be expanded. Relocating the Engineering Centre to a new facility that is four times the previous premises, Emirates is now capable of storing materials to support the expanded fleet for the next 10 years. The new store is fitted with SSI Schaefer's Interlock 600 VNA racking for 4,596 pallet positions; KRE cantilever racks and a conveyor system for incoming goods, in addition to the plastic bins and containers. The new Engineering store has been audited and approved by the Dubai Civil Aviation Authority and aircraft manufacturers Airbus and Boeing.



For more than 40 years, the parts and logistics centres integrated into the company EFA Autoteilewelt GmbH have specialised in supplying spare car parts.

Over 6000 customers depend upon the reliable service and the high quality of the products. The enormous success of the company demanded a new logistics solution at the Friedberg site Germany. A new logistics centre was opened here just a few months ago, providing an optimised flow of orders and goods, as well as 100% access to all items. All orders received by 15:30 hours are shipped on the same day.

The stipulation for the new logistics centre was the high availability of the entire range as well as seamless supply in the parts business.



JUST-IN-TIME VEHICLE SPARE PARTS

Vehicle spare parts for 18 car marques



The contract to supply the logistics systems, as well as all office equipment for the administration building, was awarded to SSI Schaefer as the general contractor.



There are currently approx. 30,000 parts items in the three-storey shelving system, consisting of small and very small parts, medium-sized and packaged parts, as well as large and bulky parts. To store large and bulky goods such as exhaust pipes, silencers, vehicle body parts and discs, shelving is installed on the ground and first floors at the relevant depths. The pallet storage is designed primarily for storing euro pallets and mesh boxes, as well as special Ford containers and heavyweight parts.

Imprint update

Publisher and party responsible for the content: SSI Schaefer / Fritz Schaefer GmbH · Germany
Public Relations / Editor: Mareike Buska – eMail mareike.buska@ssi-schaefer.de
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