SSI SCHAEFER

MOBILE RACKING SYSTEMS FOR TOUGHEST DEMANDS

Case Study
COM40, manufacturer of upholstered furniture
Location: Nowe Skalmierzyce (Poland)

Pillar elevator

Feed-in/discharge station for the materials handling technology

Project objectives:

- creation of 93,000 pallet spaces
- to optimize in-house processes by using an automated conveyor system and organisational changes
- high level of automation for flow of goods
- storage/conveying of three different types of loads in 14 different sizes
- staging in the goods dispatch area for fast shipment via trucks

Hangers in the electric overhead conveyor

Scope of our deliveries/services:

- general contractor for logistics
- concept planning and plant design
- 41 mobile racking units for 93,000 pallet spaces
- conveying technology (mechanical and electrical)
- electric overhead conveyor
- 36 gravity conveyor belts
- S7 – control for racking and conveying technology
- warehouse control and material flow computer
- plant visualization

View into one of the aisles

Cost-effectiveness and safe working conditions with state-of-the-art warehouse logistics

COM40 is a dynamic, young and growing manufacturer of upholstered furniture. The company was founded in 2000 and soon emerged as one of the leading upholstered furniture manufacturers in Poland. The current range includes 30 different items of upholstered furniture, which are available in more than 250 variations. As well as supplying their own retail outlets, COM40 also supplies furniture to shops both in Poland and the rest of Europe. It therefore comes as no surprise that IKEA is amongst the company's biggest clients.

As part of the planning process to extend the buildings and upgrade warehouse storage capacity, SSI Schaefer put together a successful proposal based on the concept of a semi-automatic mobile racking system in conjunction with manually controlled storage and retrieval machines. The design incorporated specific plant criteria into the extension plans and managed to optimise the flow of goods. The 93,000 pallet spaces for semi-finished and finished products are split into 3 hall sections. In the existing warehouse hall and in the new hall sections, the materials handling systems and electric overhead conveyors play a key role in the material flow. The omission of manual transportation systems not only increases cost-effectiveness, but also makes the working environment safer. An individually adapted interface creates a safe connection to the customer's warehouse management system.

Goods dispatch / discharge roller conveyors

Mobile racking system incl. conveying technology

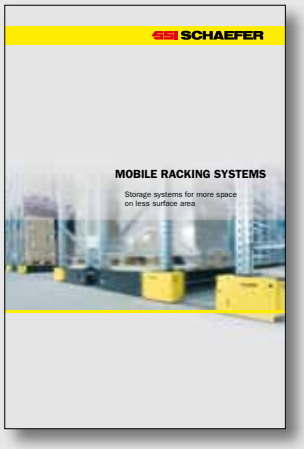
Racking units:	41 mobile units
Number of vehicles:	217
Loading equipment:	EURO-, IKEA-, Half-pallets
Storage positions:	93,000 pallets
Max. pallet weight:	850 kg

Warehouse control / material flow computer

Server hardware:	HP/Compaq ProLiant Server ML 370
Operating system:	SUSE LINUX Enterprise Server 9
Database system:	ORACLE Enterprise Edition
Application software:	SSI Schaefer Software

- 4 incoming goods positions with I-point functionality
- 3 incoming goods positions without I-point functionality
- 12 transfer stations
- 1 emergency stock removal
- 15 trolleys (electric overhead conveyors)
- 36 gravity conveyor belts
- Mobile racking system control
- Control system for the electric overhead conveyors

An underpass is used to bridge the height differences between warehouse halls



Leaflet:
Mobile Racking Systems

Leaflet:
Automated Mobile Racking Systems

Case Study:
Titania Fabrik GmbH

Case Study:
Eugster Frismag AG

Case Study:
Simon Hegele GmbH

Case Study:
Zandbergen B.V.

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- General contractor for logistics
- Planning and consulting
- Warehouse control
- Control technology
- Steel construction / racking systems
- Racking storage and retrieval vehicles
- Conveying technology
- After Sales: spare parts, service and maintenance

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