

Results at a Glance:

Storage area reduced by more than 50 percent

Goods throughput 50 percent faster

Warehouse staffing reduced by approx. 40 percent

Permanent current stocks

Reduced waste

Future-proofed by modular design

Technical specifications:

Warehouse size: 31 m x 6.2 m x 7.2 m (L x W x H)

Storage capacity: 542 pallets with 3 tonnes payload each

1 storage retrieval machine with electro-mechanical weigher - lifting and pulling speed: 32 m/min

5 retrieval stations

Direct connection to three Bystronic lasers

Remmert PRO WMS Enterprise warehouse software

Your contact:



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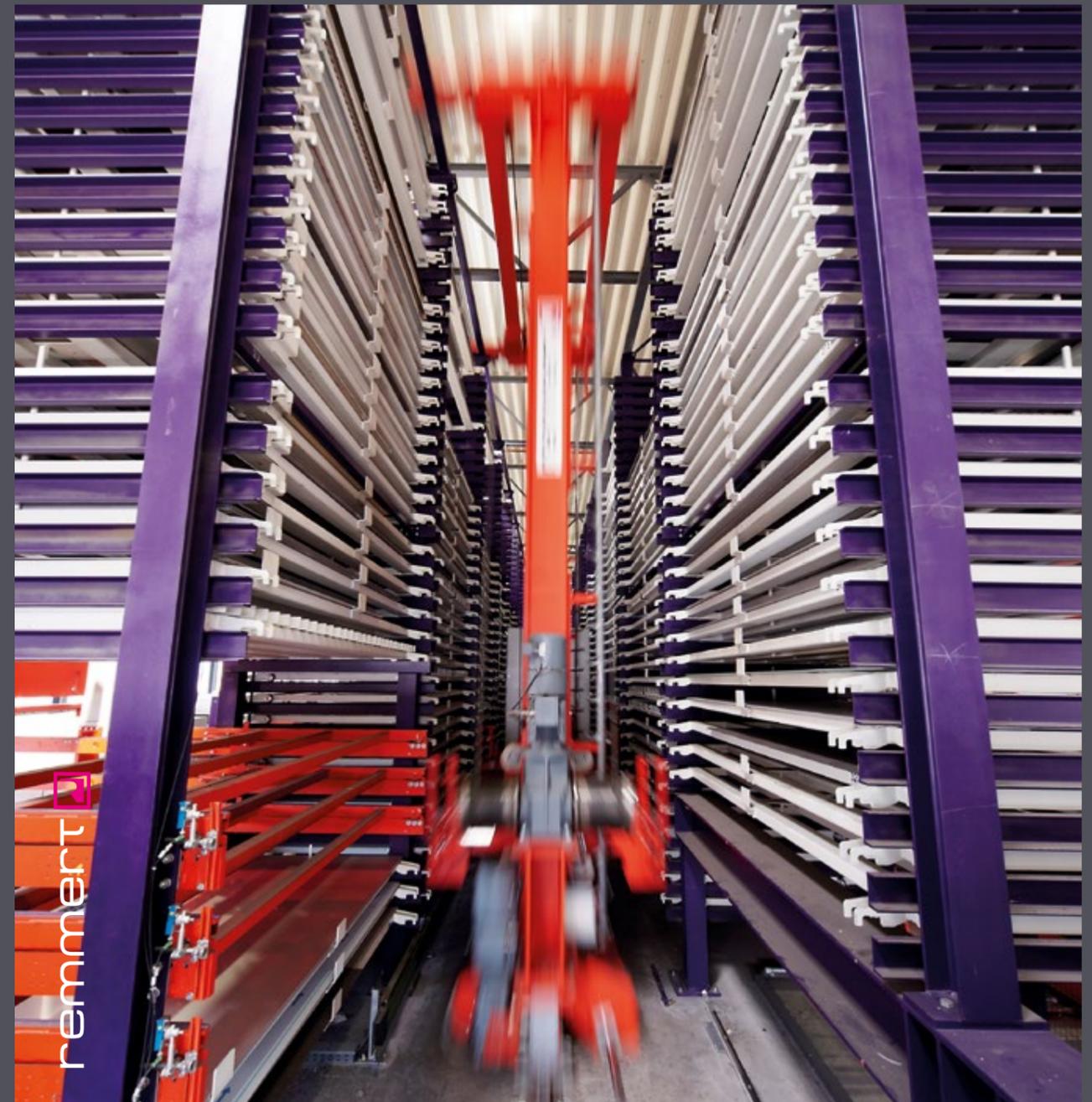


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remmert SUCCESS

The company's success stories



EFFICIENCY UP - COSTS DOWN
EXAMPLE HASE GMBH



Outcome

The Remmert system takes up just 192 m² and this has reduced the space required for sheet metal storage by more than 60%. The goods throughput has also significantly increased – “by using our new sheet metal machining cell, we have increased the throughput by at least 50%, and all this has been achieved with significantly reduced staffing levels in the warehouse,” explained Frank Schlicker. In order to supply the expensive equipment with materials on a continuous basis and intercept order peaks, Hase also lasers any parts which are not processed

immediately but returned to stock. The individual semi-finished materials are separated with PVC sheets in order to store several layers of processed material on a pallet without causing damage. The PVC sheets are ready for use in the sheet metal store and are automatically placed on the semi-finished goods. Hase supplies the parts to the other processes via two separate retrieval stations.

Hase GmbH located in Trier manufactures components from steel, stainless steel and aluminium for the engineering, food, beverage and pharmaceutical industries. The company has its own design and machinery facilities with laser and punching machines, folding machines and saws. The core manufacturing capabilities of Hase also include welding, finishing and coating.

Efficiency up – Costs down

Anyone who wants to reduce the storage area, material handling time and manpower in their sheet metal store by at least 50% should switch to fully integrated warehouse and manufacturing processes. This is the advice offered by sheet metal processing specialist Hase GmbH, after achieving precisely these results by installing an automatic sheet metal storage system from Friedrich Remmert GmbH.

“In the past, we mostly stored our sheet metal in stacker-operated steel racking,” said Frank Schlicker, managing director of Hase GmbH. “The material had to be picked by our staff prior to order processing and temporarily stored in the storage tower of our Tower Bystronic laser.” Although this solution ensured good machine utilisation for the sheet metal processing specialist, the material handling was very time-consuming and required a lot of manpower and space.

Objective

Hase therefore planned to integrate a new, larger, automated storage system which was to be loaded and unloaded with sheet metal blanks by three fully automated laser machines. The system

was also to provide optimum material flow for the raw material, semi-finished goods and remaining blanks. The ultimate objective of this investment was to create all the conditions necessary for unmanned three-shift operation. “Remmert’s overall package of technical and planning expertise, in-house production in Germany and their extensive range of services made it easy to decide,” said Frank Schlicker explaining his choice of supplier.

Solution

The fully automatic sheet metal storage system consists of two parallel rows of racks with a storage and retrieval machine operating in between. Hase now has a storage capacity of more than 1,600 tonnes sheet metal on 542 pallets. The storage stations are located on the front of the system with the three Bystronic machines set up on the right or left. Remmert experts installed the lasers and their software on the system along with a comprehensive processing cell and its software. The PRO WMS Enterprise warehouse management system manages all the bin locations according to the chaotic space-optimised storage principle. The software manages and optimises all the storage

processes and workflows, from incoming to outgoing items, thus ensuring rapid goods supply. The warehouse management system passes all the relevant inventory data to the self-programming system materials management system. The logistics software also communicates with the three laser machines – when a new order comes in, the laser requests for the required material from the storage system via data interface. The system hands over the required blanks to the relevant machine, weighs the residual material and then returns it to the warehouse.

