

# **Fully automated high-bay warehouse, Steinbach Vertriebs-gmbh, Schwertberg, Austria.**

## **Optimising the logistics processes in 24-hour operation.**



### **Project:**

Steinbach VertriebsgmbH II, Schwertberg, Upper Austria

### **Industry:**

Wholesaler for swimming pools and accessories as well as sale of wool

### **Task:**

Fully automated high-bay warehouse as distribution centre

### **Project duration:**

05.2014 – 01.2015

### **Services:**

- Automated three-aisle high-bay warehouse, drive-in construction, for more than 19,000 Euro pallets
- Three stacker cranes with wireless shuttle
- Production trucks with radio data components
- After sales
- ISM Online

### **Most important results:**

- 24-hour operation
- Optimising the logistics processes

### **Expansion of the warehouse capacities**

Steinbach supplies swimming pools and accessories to customers across Europe. Around six years ago, company head Peter Steinbach began to completely restructure his company in several stages of expansion. The sixth and, for the moment, the last stage of expansion comprises a second plant: a fully automated high-bay warehouse as a distribution centre. The planning partner for this was the intralogistics specialist and forklift truck manufacturer Jungheinrich.

### **A fully automated high-bay warehouse**

In just five months, Jungheinrich brought on line a fully automated high-bay warehouse with a capacity of more than 19,000 pallets and a height of approximately 33 metres, which moves fully sorted pallets directly to the loading ramps. The warehouse comprises a loading area with nine docking bays and fully automated transfer from 240 suspended conveyors. The goal is to facilitate the collection of products 24/7, to shorten the length of time HGVs remain at the warehouse during peak times to the absolute minimum and to achieve a frequency of just a few minutes for dispatch.

The loading area and bottom plate were already completed in 2012 and the steel structure was replaced by a lightweight building construction for a period of two years. The handover of the high-bay warehouse took place on time at the beginning of 2015.

Steinbach has been a customer of Jungheinrich for many years. The company relies on Jungheinrich in all areas from manual fork lift trucks, customer service, ISM Online, manual racking systems and radio data components to automated solutions. The advantage is that Steinbach is able to clarify everything with one contact partner and is very well looked after.

## The requirement

### The ever-increasing demand for warehouse capacity

Seasonal peaks in demand for pools, etc. in the retail chains pose the greatest challenge for Steinbach's logistics. Hot summers with long heatwaves encourage a great many consumers to invest in a pool for their gardens. So this demand must then be satisfied quickly. Ensuring the high availability of products for retail required the construction of a further fully automated high-bay warehouse.

## The solution

### From meadow to fully automated silo

Jungheinrich Austria proved to be the right partner for the expansion project. Scarcely one year after the last project, it became clear that Steinbach would soon have to respond to the ever-growing demand for warehouse capacity if it also wished to safeguard the product availability factor in the future. The site was confirmed: a large meadow, approximately 800 metres as the crow flies from the company site. Jungheinrich took over the precise planning for a new automated warehouse. Time was short: from placing of the order to the scheduled completion, there were only a few months available to Jungheinrich. The racking system for Plant II is similar in design – the so-called silo – to that of Plant I, yet significantly larger. The new, three-aisle high-bay warehouse has a capacity of more than 19,000 pallets. Three stacker cranes (with wireless drive-in truck) stack on up to 13 levels. When planning the silo, Jungheinrich had to take into account building regulations, resulting in the unusual, doubly stepped shape of the building on the outer aisles. The silo is encased with airtight wall cladding.

## Customer statement

### Logistics solutions well conceived down to the smallest detail

"When turnover increases tenfold within a short time, then this is an exciting playing field for each supply chain manager on which they can let off steam. With a reliable partner at our side, we are very consistently pursuing the path of full automation and are supplying the whole world with our high-performance logistics machinery," says Peter Steinbach, CEO of Steinbach Group. "Jungheinrich took on the role of general contractor, responsible for construction of the two racking systems, and ensured that our day-to-day operations were undisturbed throughout the construction period. The result is logistics solutions well conceived down to the smallest detail and characterising the intralogistics landscape in the long term."



Peter Steinbach, CEO of the Steinbach Group, Schwertberg, Austria.

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