

Industry reference

Machine factory



The customer

Maschinenfabrik Niehoff is one of the world's leading suppliers of wire drawing machines and drawing lines for the wire and cable industry. More than 700 employees work at the headquarters in Schwabach (close to Nuremberg / Germany) or in one of the ten locations on three continents. For more than six decades, Niehoff has been offering cutting-edge technology for the wire and cable industry.

The requirements

In order to cope with future growth, a multistage construction project for a new production and logistics location in Schwabach was realized. The logistical core consists of an automatic tray warehouse with about 8,400 storage locations. The aim was to increase the storage density using tray technology, the reduction of throughput times and a significant performance increase.



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Tray warehouse with 8,400 trays for weights up to 150 kg

The solution

The three-aisle automatic tray warehouse including pre-zone platform and conveyor loop is designed for 8,400 trays. It offers high flexibility when storing packages of different sizes and heights. The tray warehouse is optimized for three different container heights and is supplied by three highly dynamic automatic storage and retrieval cranes (AS/RS), which are equipped with a special towing device for load handling. Components produced or bought from outside order-related for the production of the NIEHOFF-machines are stored here. Steel trays with a sheet thickness of 2 mm ensure the stability of the load carrier when carrying weights of up to 150 kg per tray. A special conveyor technology in special chain design with integrated rubber pads ensures a gentle and low-noise transport of the heavy trays. The pre-zone loop has a performance of 400 trays/h. Four ergonomically designed receiving and order picking stations in the pre-zone of the high-bay warehouse ensure a smooth processing of all small parts orders. They are equipped with scanners, height and overweight controls. The system is controlled by the software of Klinkhammer which is directly connected to the SAP-system. The visualization system of Klinkhammer illustrates the material flows.

Advantages for the customer

The three-aisle tray warehouse is a further step to even more efficiency and high storage density in the logistics of NIEHOFF. It is the aim to further improve the quality and increase the profitability of logistics. To achieve this aim, goods receiving, storage and retrieval of goods, order picking and production are connected by state-of-the-art conveyor and storage technology.

Data and facts

- 3-aisle automatic tray warehouse (8,400 storage locations)
- 3 automatic storage and retrieval cranes with drawing technology
- Special conveyor technology in special chain design for weights up to 150 kg per tray
- Pre-zone loop with a performance of 400 trays/h and picking zone with 4 work stations
- Direct connection of the Klinkhammer system control to SAP WM / LES

Order picking zone with 4 work stations



Automatic storage and retrieval crane with drawing technology



3-aisle automatic tray warehouse

