



nobilia[®]

**ORDER PICKING
FOR 750,000 KITCHENS
PER YEAR**

Unitechnik
PERFECTION AUTOMATED.



INITIAL SITUATION

Nobilia produces fitted kitchens on an area of over 250,000 m² at its two plants in Verl (Plant I) and Kaunitz (Plant II). Both sites already had stock and picking warehouses for fronts, carcass parts, accessories and worktops.

However, due to continuous growth, the capacity limits had been reached. For this reason, the Kaunitz site was expanded to include a new logistics center for customer accessories, railing handles, assembly accessories, semi-formats and carcass reserve parts.

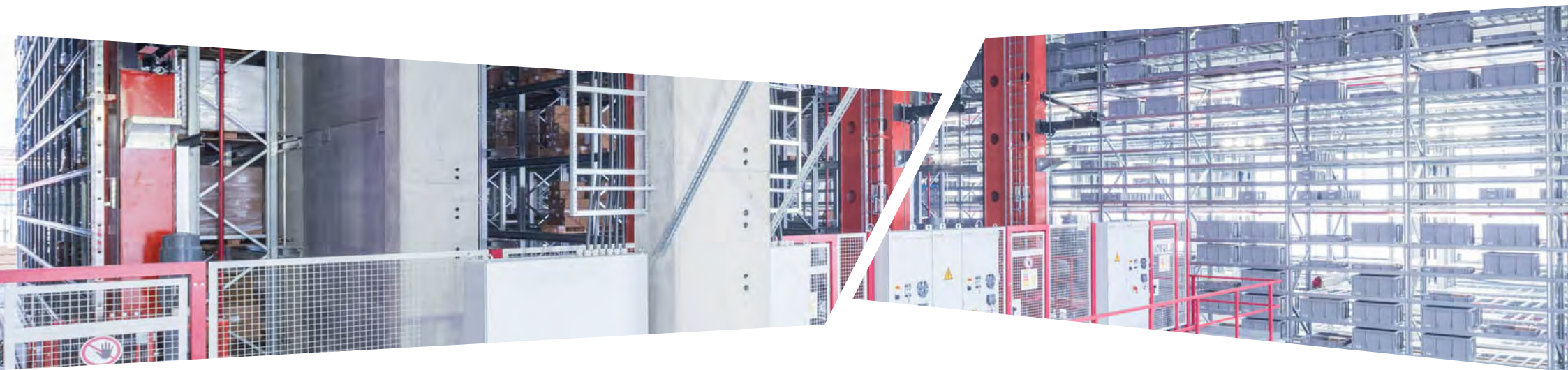


nobilia[®]

nobilia-Werke

Verl-Kaunitz, Germany

Logistics center for
kitchen manufacturers



SOLUTION

Unitechnik realized the automatic high-bay warehouse and the accessories/ small parts warehouse (ZKL).

The ZKL was designed as a single-aisle shuttle warehouse with 40 levels.

In order to be able to handle the high throughput, 9 laterally arranged lifts were provided.

Person-to-Goods (PTG) picking of frequently used handles and fittings is carried out from a total of 80 throughput channels, which are filled directly by the ZKL shuttle vehicles.

The bin conveyor system on two levels connects the warehouse and the PTG picking zones with the Goods-to-Person (GTP) picking stations and the packing stations.

UniWare takes over the material flow control as well as the bin management in the ZKL.

The high throughput is made possible not only by the layout of the system, but also by UniWare's sophisticated storage and transport strategies.

They are selected in such a way that picking and packing processes are synchronized according to time and order.

Replenishments for the ZKL and larger parts, such as railing handles, are stored in the 5-aisle high-bay warehouse. GTP picking stations as well as storage and retrieval sections are connected via a conveyor technology pre-zone.



TECHNOLOGY AND KEY FIGURES

Automated high-bay warehouse

- 5 aisles
- 8,000 pallet spaces
- 3 picking stations (GTP)

UniWare

- Material flow control high-bay warehouse
- Material flow control and bin management ZKL
- Interface to SAP EWM

Central small parts warehouse (ZKL)

- 1 aisle shuttle warehouse
- 40 levels, 40 shuttle vehicles, 9 lifts
- 17,000 bin storage locations
- 80 integrated flow channels in the shuttle warehouse
- 6 picking stations (GTP)
- 6 container packing stations
- 1 de-/palletizing robot
- 1 gantry robot for four box loading



Unitechnik *PERFECTION AUTOMATED.*

For two generations **Unitechnik** has been a successful owner-managed family enterprise. For five decades we have been counted among the leading providers of industrial automation and information technology. We plan and realize customized systems for in-house logistics and production whereby we are active throughout the world as an one-stop supplier.



www.unitechnik.com

Unitechnik Systems GmbH Fritz-Kotz-Straße 14, 51674 Wiehl-Bomig, Germany

 +49 2261 987-0

 logistics@unitechnik.com