

Case Study

Sustainable Refurbishment

Case at a glance

Efficient and secure retrieval of kitchen fronts

With complete replacement of the picking devices and an extensive refurbishment of the conveying technology, Kardex Mlog installed a state-of-the-art picking system at the kitchen manufacturer nobilia. Within a period of just three weeks, productivity was increased, the security concept was updated, and long-term plant availability was ensured.

10% higher performance

Customer and task

nobilia builds individually designed kitchens. Each year, more than 727,000 kitchens leave the two plants at the company's head-quarters in Verl in East Westphalia.

Every single nobilia kitchen is individually planned. The picking plant for kitchen fronts is at the heart of nobilia's production. The plant was installed in 1998 with two picking devices from a third-party supplier, and a third device was added in 2008. Following many years of intensive usage in two-shift operation, initial signs of wear began to appear in the picking devices, rails and conductor lines.

Solution

Having replaced the 3 picking devices, Kardex Mlog set up additional pallet buffering points in the conveyor system and updated the security and access concept. Kardex Mlog initially assembled and tested the new devices at their own premises. This concept enabled the entire conversion to be completed within 3 weeks.

Now, special distribution vehicles with lift and on-board channel storage vehicles are in use. The travel speed is 120 m/min, the lifting speed is 0.5 m/s, with maximum acceleration of 0.5 m/s in both cases.

The S7 controls also optimize the on-board subsidiary units. The channel storage vehicles, equipped with single-deep telescopic forks, reach speeds of 60 m/min (chassis), 20 m/min (lift unit), and 60 m/min. The speed of the roller conveyors was increased to 0.3 m/s. The throughput of the overall system increased by 10%.

10% **higher throughput**

Conversion **completed within three weeks**

Preliminary testing at **pilot plant**

Scope of delivery



3 distribution vehicles with lift and on-board channel storage vehicles



Updated security concept



Long-term plant availability and spare parts availability