

Case Study

The Winning Formula for Fast Kitchens





Stock in 14 aisles

Customer and task

At its Rödinghausen location, Häcker Küchen produces built-in kitchens that meet the highest standards in quality, functionality, durability and design. In 2006, Kardex Mlog was commissioned to expand the production space from approximately 60,000 square meters to more than 100,000. The intralogistics leader acted as a general contractor for the construction of a new high-bay warehouse. It features a total of 14 aisles for the storage and picking of fronts and tall cabinet side panels for just-in-sequence delivery to production. Two of the 14 aisles are reserved for storing tall cabinet side panels. A total of 780 pallet storage spaces are available for large and heavy kitchen components.

Solution

The 14 rack aisles are served by 11 storage and retrieval machines (SRMs) equipped with S7/300 controls. These are connected via WLAN directly to the material flow computer. One of the SRMs has been designed as a picking machine and is fitted with telescopic suction pads and a three-pronged telescopic fork. Another SRM is deployed to stage and transfer goods pallets for the picking SRM.

The doors, panels and modules must first travel 10 meters on a vertical conveyor between the material flow level and the goods receipt area above it. Then an electric monorail takes the pallets and transports them to the SRMs, which carry out preliminary stock placement. By April 2007, only 12 months after the initial groundbreaking ceremony, the high-bay warehouse was ready to begin operations.

Case at a glance

Variety is king

The modern built-in kitchen is like a menu overflowing with delicious courses and an abundance of fine ingredients to choose from. Nowadays, there are endless possibilities and options to consider when creating a new kitchen. Ultimately, the owner's personal preferences and site spatial conditions will determine the form, shape and surface of each area. To accommodate this product diversity, the new high-bay warehouse of the kitchen manufacturer Häcker is home to modules to suit (almost) every taste. The sheer number of variants is a logistical challenge that Kardex Mlog was commissioned to solve.

780
storage
spaces
for kitchen
components

Electric
monorail with
**350 pallets/
hour**

11 SRMs
with different
tasks



Scope of delivery



14-aisle high-bay warehouse with 11 SRMs



Conveyor technology with vertical conveyors and electric monorail



4 sorting storage areas for kitchen fronts with a lifting beam machine and two load pick-up devices for 1,600 trays each