

HÖRMANN equips the new eurotrade logistics hall at Munich Airport with an automatic miniload warehouse

Munich, April 2021: eurotrade, a wholly owned retail subsidiary of Flughafen München GmbH, operates numerous retail units at Europe's only 5-star airport. With around 1,200 employees, the company's portfolio includes duty free, fashion, press/travel supplies and watches/jewelry, covering an area of around 14,000 square meters. With its many years of retail expertise and individual store concepts, eurotrade plays a key role in shaping the experience and shopping world at Munich Airport.

A new logistics hall was built at Munich Airport for the storage of gift articles, food, hygiene articles and spare parts. As general contractor, HÖRMANN Logistik built a 4-aisle automated small parts warehouse with an upstream conveyor loop. Four picking stations and two goods receiving stations are connected to the loop. The automatic small parts warehouse provides the store items to the eurotrade trading areas by means of efficient material flow and order picking processes.

At the two goods receiving stations, the delivered goods are manually unpacked, registered and placed in an empty bin provided. Routed on roller conveyors and a vertical conveyor, the bins are transported to the miniload warehouse using automated conveyor technology. A dimension and weight check is carried out before stored in the warehouse.

The conveyor system feeds the bins into the loop in front of the automated small parts warehouse. The loop serves the bins preferably in pairs to one of the four storage and retrieval machines (SRM). To pick up the bins, the stacker cranes are equipped with a telescopic table, driven by a belt conveyor. Two bins per storage slot can be stored and retrieved in one single cycle.

If no pair of bins can be found for storage within the defined time period, the SRM stores the bin individually. The new miniload is designed for 280 storage and retrieval operations per hour. For a picking order, the SRM removes the requested bins from storage. They are transported to one of the four picking stations via the loop and the conveyor system.

In the infeed section of the order picking station, the bins are staged in the required sequence. Each workstation is equipped with an intuitive order picking GUI, displaying SKU information and quantities. The order picking stations are designed for multi-order picking, serving up to 5 orders at a time with the same SKU from one single bin. This way bin movements are reduced, increasing the pick rate at the same time. Above each order bin, a put-to-light indicator shows the operator the correct bin destination. After the picked goods have been acknowledged, the storage bin is returned to the miniload warehouse.

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Press information



Empty bins are supplied to the goods receipt locations via non-driven buffer sections. Finished order bins are pushed to the pickup point via conveyors, where they are reloaded onto transport carts for delivery to the respective recipient.

Facts and figures of the miniload warehouse system:

- Dimensions: approx. 41m x 17m x 12m (L x W x H)
- Number of aisles: four
- stacker cranes: 4, 1-mast stacker cranes, aisle-bound
- load handling device: telescopic table with belt conveyor
- storage type: 1-fold to 2-fold deep
- Bins dimensions: 600 mm x 400 mm x 320 mm
- Bins weight: max. 30 kg
- Bins storage capacity: 32,000

The scope of supply of HÖRMANN Logistik includes steel rack construction, stacker cranes with control technology, miniload conveyor and controls technology for incoming goods, outgoing goods and order picking, thermal partition wall between aisles 3 and 4, order picking workstations, the Put-to-Light system, the HiLIS warehouse management system interfacing the on-site host system, and system visualization.

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