

Industry reference

Plastics industry

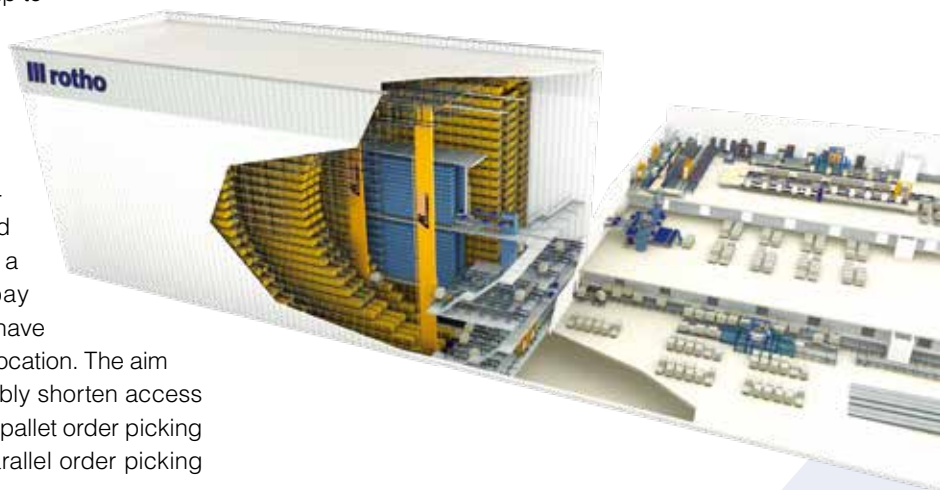


The customer

Rotho Group develops, produces and distributes plastic products in the field of consumer goods, baby products, pet products and waste disposal products, ranging from plastic storage systems in the kitchen up to office organization systems.

The requirement

Due to the continuous growth, a high-performance pallet picking area equipped with pick-by-light technology and a connected automated pallet high-bay warehouse and container warehouse have been implemented at the Würenlingen location. The aim of the automatization was to considerably shorten access times by means of a high-performance pallet order picking comprising multi-order picking and parallel order picking of containers and pallets.



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Pick-by-light container order picking

The solution

The automated silo-type high-bay warehouse with 11,600 pallet storage locations and the automated small-parts warehouse with 4,600 container storage locations have been connected by conveyors to the upstream order picking and shipping areas. In a warehouse pre-zone, pallets are handed over by conveyors to a transfer vehicle with integrated support frame and are automatically made available for order picking at the buffer stations.

Via pick-by-light display, the picker receives information on the quantities to be picked from the source pallets and to be packed onto the 28 order pallets on the opposite side. Thus, multi-order picking enables the picker to process several orders in parallel. The support frame of the transfer car ensures a tight stacking pattern and supports the stacking and wrapping of difficult to stack plastic articles. Subsequent to the order picking, the order pallets are automatically stretched.

Advantages for the customer

The pick-by-light pallet order picking, which is individually tailored to the customer requirements, ensures short access times. The operator guidance significantly minimizes picking errors and small parts picking from containers is integrated. During a pallet change, no waiting times arise.

Data and facts

- Silo-type high-bay warehouse with 11,600 pallet storage locations and 4,600 container storage locations
- Order picking platform with pick-by-light technology for 18 source pallet storage locations and multi-order picking for 28 target pallets
- High order picking performance of up to 250 picks/h
- For euro pallets, industry pallets and lattice boxes
- Fast moving articles are simply buffered in the order picking area and reduce the play in the high-bay warehouse

Transfer car with support frame for order pallets



High performance pallet order picking



High-bay warehouse with 11,600 pallet storage locations

