

Industry Reference Toy Industry

SIMBA · DICKIE · GROUP

SPACE-SAVING
CHANNEL WAREHOUSE
ERGONOMIC ORDER PICKING

The Customer

Simba Dickie Group, one of the leading toy manufacturers, employs about 3,000 people at 30 locations worldwide. The product portfolio of Simba Dickie Group consists of more than 4,000 toy products of more than 20 brands, such as Smoby, BIG, Eichhorn, Majorette, Aquaplay, Schuco and Noris.

The Requirements

At the location in Sonneberg, the storage capacity should be bundled centrally in order to be able to do without external warehouses to a large extent. The aim was to compact the warehouse and increase the storage capacity. Large and small parts should be stored in a space-saving manner, picked efficiently and quickly and packed with optimized shipping costs.

Klinkhammer Intralogistics GmbH

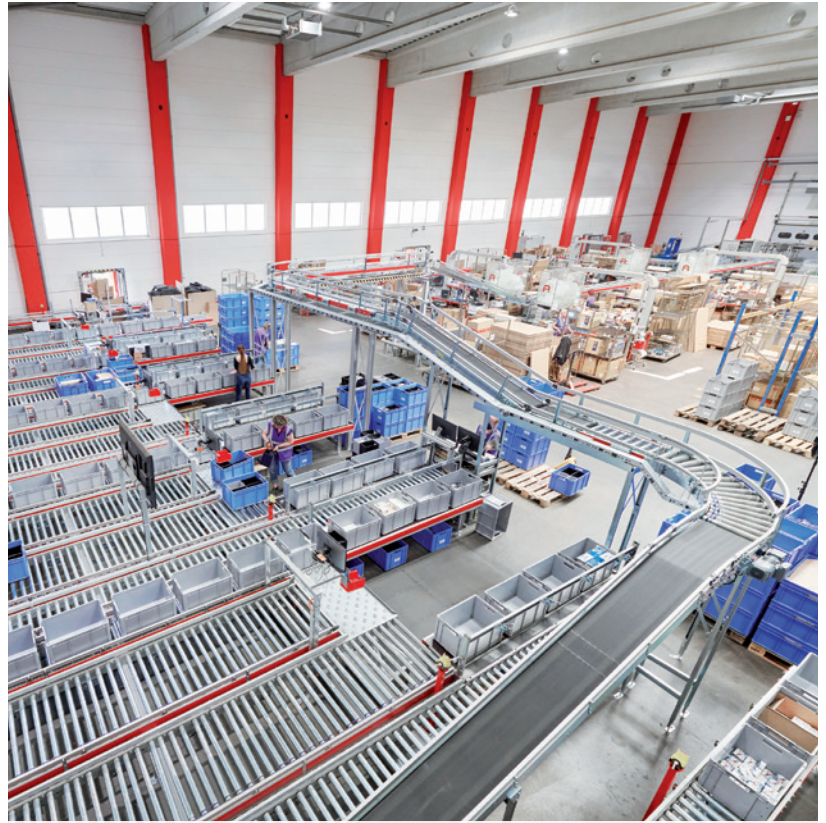
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The Solution

A 3-aisle, automated small-parts warehouse was extended by 4 aisles and equipped with modern picking workstations for ergonomic multi-order picking of 8 orders simultaneously. The storage and retrieval performance of 600 double cycles per hour enables high picking performance and fast processes. A fivefold-deep automated high-bay warehouse offers compact, space-saving storage of pallets.

- 2-aisle, fivefold-deep, 27 meter high, automated channel warehouse with 13,200 pallet storage locations in silo construction
- 7-aisle, double-deep, automated small-parts warehouse with 31,920 bin storage locations (bin footprint 600 x 400 mm and 800 x 600 mm)
- Lateral flow channels in the small-parts warehouse as order consolidation buffer
- 5 order picking workstations for multi-order picking and a storage station
- Conveyor connection to the packing stations
- Warehouse management via SAP EWM



Pre-zone of the small-parts warehouse with multi-order picking workstations



2-aisle, fivefold-deep channel storage



System visualization KlinkVISION®



Multi-order picking of up to 8 orders simultaneously



7-aisle, automated small-parts warehouse with 31,920 bin storage locations