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Highly flexible high-bay warehouse for doors & frames

- Automatic stacking and destacking with KUKA robot
- Storage and retrieval machine with special load handling device
- Storage capacity of up to 7,000 spaces – flexible according to product mix

KÖHL Maschinenbau implemented a highly complex system for destacking, stacking and storing doors and frames of various dimensions for 'Prüm Türenwerk' in Weinsheim.

The feeding and retrieval of the stacks is carried out by a cross transfer car provided by the customer and is transferred to the KÖHL conveyor system. The supervisory warehouse management system transmits the product dimensions of the individual products and passes this information on to the control system. This verifies the data during destacking.

Robot handling



KUKA KRC4 with dual gripper for doors & frames

The KUKA KRC4 robot unstacks the doors or frames and places them on a transferring station for the storage and retrieval machine. At this point, the products are aligned and their dimensions are checked. These data are then cross-checked against the warehouse management system.



Protective plate handling

Storage and retrieval machine with special load-bearing device



SRM with two telescopic forks and two belts



SRM Features

- Maximum capacity of 2 doors or 2 frames (depending on the dimensions of the products)
- Wide doors are placed on or picked up from depth supports using a telescopic fork.
- Small frames are inserted into or removed from the compartments using a special belt.
- Removed products are transported by the storage and retrieval machine to the robot in the pre-zone, where they are stacked again on a protective plate.
- As a final step, the stacks are transported to the on-site cross transfer car.

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