



PRÜM
Türen die zu Ihnen passen

Transport and space for doors and frames. Prüm Türenwerk GmbH

The new high-bay racking system at Prüm Türenwerk GmbH has a capacity of 7,000 storage spaces for doors and frame stacks. The storage spaces permit storage of 9 different pallet sizes.

The stacks are transported and stored on support plates. The high-bay racking system and the commissioning area are logistically connected with a transport bridge for fire protection reasons. KÖHL Maschinenbau AG solved the difference in height with two vertical conveyors.

■ Modern Conveying System

■ Commissioning by portal robots

Two of the four storage and retrieval units (RBG) are modified in such a way that individual doors may be assembled as commission in the high-bay racking system by means of the RBG's.

Roller, chain and vertical conveyors as well as turning devices and moving trucks are utilized as conveying elements. A portal robot takes care of the automatic commissioning of doors and frames.

The conveying system and the commissioning are controlled by Siemens S7-controls that receive their information from three different material flow computers. The data for the material flow computer is sent by a higher level warehouse management system that is coupled to an ERP-System.

As requested by the customer, the complete conveying system was visualized with all data bases at the respective computer - this required complex programming.



Automatic commissioning for doors and/or frames by means of portal robots.



Fast moving truck for pickup of 2 stacks.



2 vertical conveyors for storage and retrieval to/from the warehouse.



The RBG transfers a stack of doors without pallets to the conveying system.