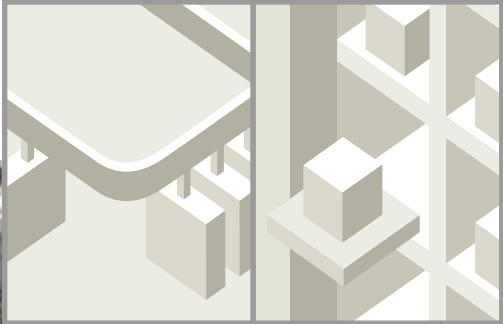


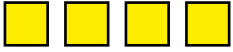
Automated warehouse for hanging items

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Concept information





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The implementation of fully automated high bay warehouses has become a standard component in integrated psb system solutions. Based on the extensive psb experience in fully automated warehouses for pallets and bins, gained over decades, a solid warehousing system for hanging items, as e.g. textiles, bicycles and others, has been developed.

Procedure

In the receiving or the production area, respectively, the items are passed to a transport module (storage bars, or especially designed product carriers). Utilizing a psb transport system (electric monorail system, trolley conveyor system or trolleyless overhead conveyor), the transport modules holding the items are conveyed to a defined area in the warehouse. Special load handling devices provide for the transfer of the transport modules to the AS/RS stacker cranes. The stacker cranes are now in a position to place the transport modules multi-deep into vacant locations on both sides of the storage aisle. In existing warehousing operations, even 12-deep storage



has been implemented, allowing for an extremely compact storage of goods, and consequently a very high utilization ratio.

The system levels can be configured variably, so that goods of different sizes can be stored with an optimum usage of space. The system is operated according to a »random storage« principle, i.e. a distinction according to areas, articles or other features is not necessary.

Benefits

A high degree of automation in a high bay warehouse for hanging items allows for a simple and cost-efficient construction (e.g. high bay warehouse in rack-supported building) – and the structural demands in heating, lighting and electrical installations are low.

With single access to the transport module, the fully-automated operation provides a system with a low number of operatives. Given the organizational preconditions, the system can also prepare orders for the next workday by pre-sortation operations, carried out during the night.