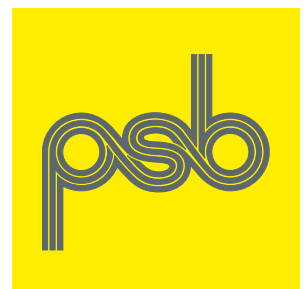




psb Best Practice

Wentronic

Efficient Shuttle Technology with up to 4-deep Storage of Cartons



CREATING YOUR
INTRALOGISTICS

Wentronic

Efficient Shuttle Technology with up to 4-deep Storage of Cartons

wentronic

Customer

Wentronic GmbH
38112 Braunschweig / GER

System

Distribution center with automated shuttle-storage (five aisles; 4-deep storage) operated with *vario.sprinter*, *selektron* and *optimizer*

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Wentronic GmbH is a distributor of accessories for consumer electronics and has over 13,000 individual articles in stock. Besides international business over a trading network, Wentronic is a reliable OEM partner in the automotive industry.

Design criteria

Wentronic decided for organizational and capacity reasons, towards modern warehousing, order picking and conveyor technology.

The solution

The core of the new distribution center is the shuttle storage system. The racking structure – 15 m high and 60 m long – provides space for about 61,400 flexible locations. This performance is achieved by an up to 4-deep storage for the cartons, with carton dimensions, incl. tolerances, of 230 x 230 x 150 mm and 685 x 440 x 440 mm (l/w/h).

In each of the five aisles, three *vario.sprinter* shuttles are operated; these shuttles are transferred with elevators to the individual storage levels. The optimizer load handling device pulls up to two width-varying cartons at the same time onto the transport platform of the shuttle.

The cartons handled are either complete cartons for shipping, or they contain goods for the shelf rack order picking area (B and C articles), which is located underneath the shuttle storage. There the operators pick (»paperless«) the items and create path-optimized batches, placed on order picking trolleys. The articles are then set, according to a Put-to-Light system, into order-related shelves in the sorting rack. On the other side of the sorting rack, operators, supported by Pick-by-Light displays, pick the requested goods into shipping cartons.

The psb *selektron* WMS is interfaced to the high-level ERP system NAVISON.

The psb system is responsible for the warehouse management and controls the material flow. This includes, if necessary, that sequences are observed and provides for keeping orders together.

