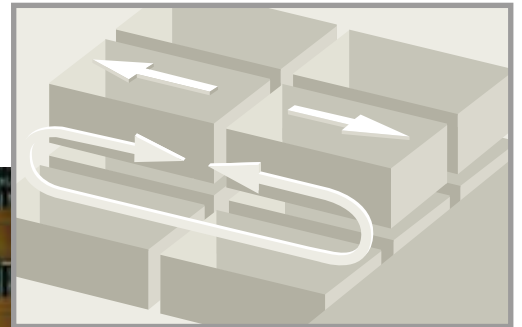


psb *rotapick*®

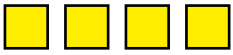
High performance order picking

205



Concept Information





experience the difference – **psb intralogistics**

Requirements

Cost reduction, enhanced schedule performance index (SPI) and simplification of processes are topical claims in picking operations. More orders, with increasingly smaller numbers of units per order, need to be handled efficiently. Another important factor is the smooth handling of the commodities to be picked.

Concept and solution

Depending on the individual configuration, the psb high performance order picking and buffer system *rotapick*® is able to buffer commodities, as well as order bins on several vertical levels, and to provide them at the order picking station within very short time. The system allows for ergonomic, uninterrupted and smooth overall operation.

Functional operation

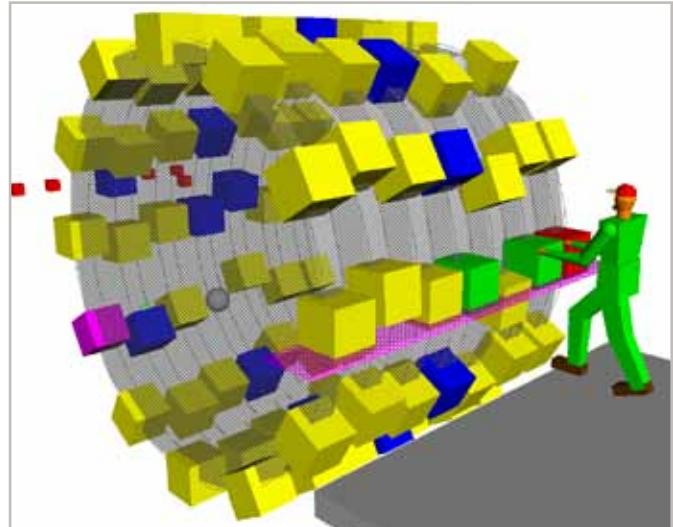
The core function of the modular system *rotapick*® is to provide immediate and direct access to as many bins (or cartons) as possible, requiring comparatively little space.

The bins with the items to be picked, and thereafter all order bins where these items are requested, are provided automatically at the picking workstation. After a picking process is finished, however, the order bin does not leave the *rotapick*® zone: it stays there, and every time when another item, requested to this respective order, arrives for picking, the order bin is presented to the picker too. Only when the order bin is full, or if the order has been finished, the bin is automatically moved out of the *rotapick*® zone and forwarded to the subsequent required function.

Through this, uneconomic (and unnecessary) repeated transports from the warehouse to the order picking station, as well as order lead times, are reduced considerably.

Consequently, the *rotapick*® is especially suitable for the handling of A and B+ articles, and only one order picker can carry out more than 1 000 picks/h.

The supply and discharge of the bins (items, orders, empty), in the optimum sequence, plus the generation of the related order picking processes, are organized automatically by the psb *selektron*® software system. So, the operator can fully concentrate on his core task: the smooth picking of the goods. The individual procedures are displayed on plain and clear control elements.



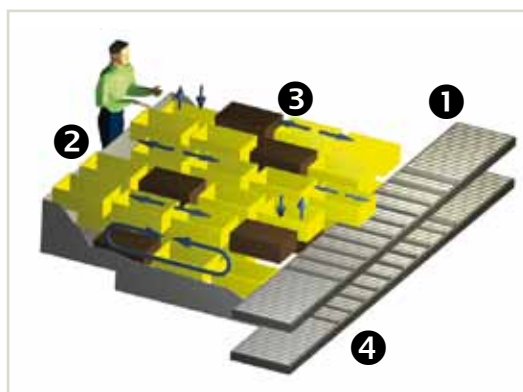
rotapick® Simulation (configuration)

Design and simulation

The design of the modular system, and the integration into a total intralogistics concept, are based on master and transaction data provided by the customer. Expected business developments and models are other factors in this scenario.

Integration

The flow of materials and information in the psb *rotapick*® system is controlled by the relevant psb *selektron*® software modules. This allows for a smooth integration into the complete range of psb products and services.



Technical configuration (example)

1 = automatic supply 2 = picking
3 = transport away/buffer 4 = automatic discharge

Configuration and ergonomics

Depending on the particular applications, several degrees of automation, different arrangements of the cartons an/or bins as well as the operational controls (taking into account ergonomic aspects) are possible.

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