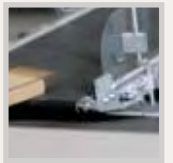


New sortation and order picking system with psb ringsorter[®] for spare parts center

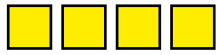
AUTOMOTIVE

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Case Description





experience the difference



Within a few hours only, the spare parts center in Dingolfing/ Germany, supplies all BMW trade organizations (dealers) worldwide, with authentic spare parts.

Design criteria

The creation of new models and the increasing competition in the after sales support, permanently present new challenges in the distribution of spare parts. The size of the orders is getting smaller all the time, and therefore the transport in-house capacity of the existing conveyor system could not be utilized optimally any longer. Congestions and blockings occurred, and the processing of orders started to depend on many factors.



The solution

In the beginning, an analysis of data and a simulation of the processes were carried out in co-operation with BMW. On the basis of the results, a concept was worked out, including organizational changes of the order picking processes, and the installation of psb sortation equipment.

The system consists of three psb *ringsorter*[®] systems with rotating ring, for the automated supply with empty bins and discharge of full bins. A storage with three psb *sprinter*[®] AS/RS stacker cranes serves as a buffer between the individual areas and represents the basis of the optimization strategies.

The work stations, within the system installation, were established and equipped by means of psb bin conveyor technology, which is also utilized for the connection of the individual picking areas, and as link to the existing conveyor equipment.

The psb system installation is controlled by seven PLCs (including the material flow organization). In addition, a server system implements the optimization strategies and connects the servers to the database controllers.

Customer: BMW Group
84122 Dingolfing / Germany

System: *ringsorter*[®], sorter pre-buffer with *sprinter*[®] stacker (miniload) cranes, distribution lines