

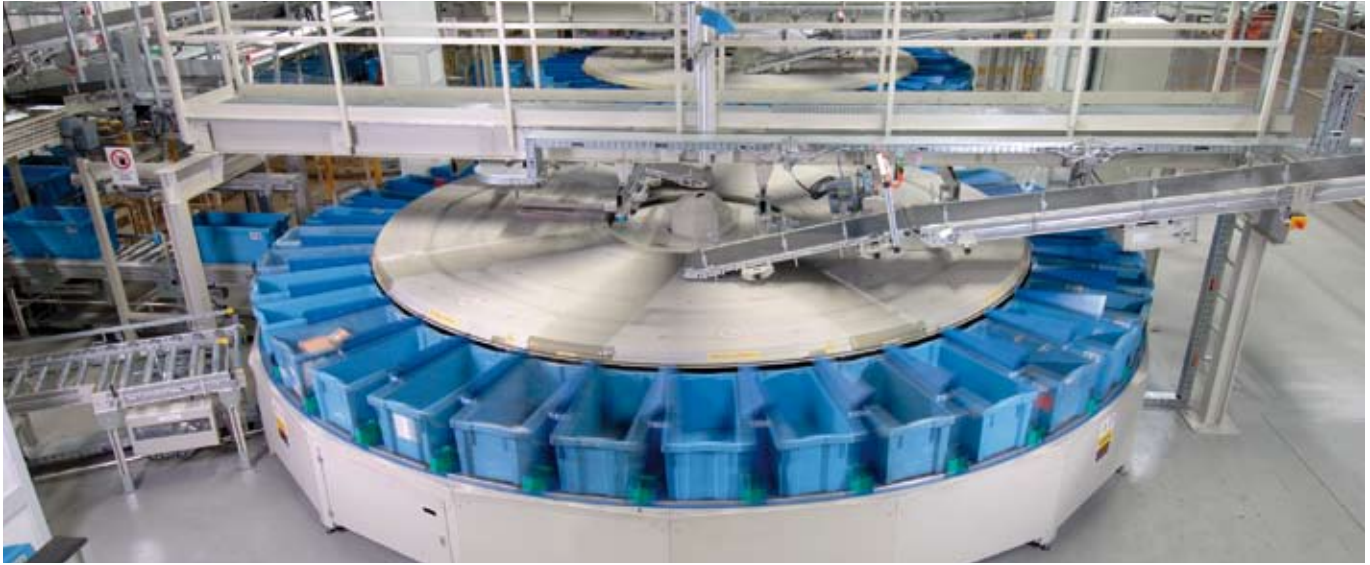
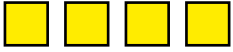
Ringsorter®

Sortation system with automated feeding and discharge of the outputs



Concept Information





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Usually, the economic efficiency of automated sortation systems depends on the factors which finally define the number of outlets required for the sortation process. However, very often, the space needs, technical criteria plus expenditure requirements, sometimes exceed the investment proportions to such magnitudes that bear no relation to the sizes of orders and throughput rates of the original sorter design.

Function

Basically, the items are sorted via rotating »spoke belts«.

At the periphery of the *ringsorter*[®], there is an additional, separately driven rotating ring which is holding the outlet (sortation output) bins. At one or several locations, exchange stations for outlet bins can be arranged.

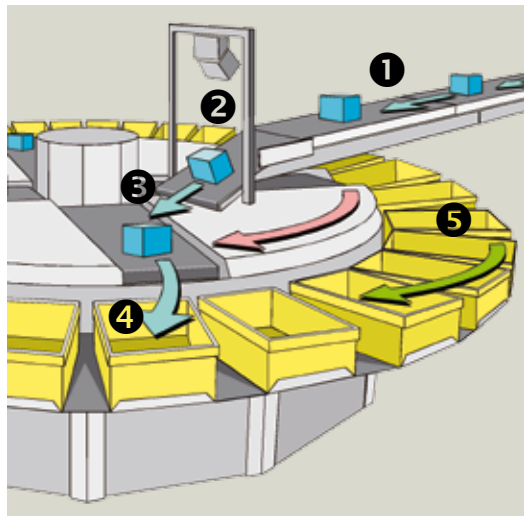
The *ringsorter*[®] organization is based on the fact, that for order picking of high article numbers, in small quantities, only

a part of the outlets (which are needed during the day), have to be available at the same time. And only these outlets, which are actually required, are physically available. At the beginning of the sortation process, through the sequential feeding of articles, only a limited number of outlets (= orders) is required at the sorter. In the course of sortation, orders are completed at different times.

At the automated exchange station, bins with complete orders are discharged. Afterwards, an empty bin is automatically inserted at the vacant location; logically, this bin is assigned to another order.

By this procedure, also a »small« *ringsorter*[®], on a very tight floor layout, can supply a higher number of outlets than the actually, physically installed outputs. In addition, the bins at the outlets do not have to be

exchanged manually, thus keeping the operational costs to a minimum.



- 1 = Feeding belt
- 2 = Scanning of barcode
- 3 = Transfer to rotating *ringsorter*[®] spoke belts
- 4 = Discharge into outlet
- 5 = Separately driven rotating ring

ringsorter[®] is a registered trademark of *psb intralogistics GmbH, Pirmasens*.
All information subject to mistakes and alteration.