



BATCH PICK 'N SCAN SORTER

Pick in Batch – Scan to Order

The sorter is an interesting new application designed by Schäfer through combining various successful machines. Highly efficient batch picking and fully automatic control was combined with 1D and 2D barcode reading and sorting according to customer orders; making it highly reliable and efficient.

The system consists of four areas which are each dedicated to one specific task. At the in-feed station, an operator places the products largely independent of their shape on the V-shaped belt conveyor. After the products are separated, they are transported through the scan machine where cameras scan each individual product from all 6 sides. The information is processed and analysed before the product is transported to the linear distributor that establishes synchronization with the sorter. Depending on the gathered information and allocation to the final destination, a distributor table transports the products to

the sorter that then transfers them to order totes or cartons at the respective destinations.

This versatile sorter, with its performance rate of 4,500 pcs/hour, can be used in different warehouse areas to perform all kinds of tasks for various industry sectors. No matter whether goods-in, returns or sorting orders - the only restrictions are that the products are not ball-shaped and do not exceed the dimensions 260x180x180mm. The integrated scanner can read 1D and 2D barcodes and is an excellent aid for error-free picking, generating parts lists and packing slips, and lot or serial number tracking, especially in the pharmaceutical sector.



Benefits

- ▶ Higher picking efficiency with batch picking
- ▶ Automated control incl. photo documentation during sortation
- ▶ Simple integration with 3D compatible sorter
- ▶ Any number of sorter in-feed points, depending on customer requirements
- ▶ Considerably less space required compared to other sorter systems

Technical Data

- ▶ Automatic identification and documentation
- ▶ Up to a maximum product weight of 1 kg
- ▶ Suitable for products from 50x10x10 mm up to 260x180x180 mm
- ▶ The performance is 4,500 products/h (depending on the operator and in-feed station)
- ▶ 6-side scan product identification at a speed of 2.0 m/s

Design Options

Customer requirements are met with sorter drop-off and in-feed points that are adapted to the customer's transport units.

Process

1. Picking:

Orders are picked in one batch (1 tote contains x orders) and transported to the manual or automatic separation on the conveying system.

2. Separation:

Individual products are taken from the batch totes and placed on a conveyor which transports them directly in to the Schäfer scan machine.

3. Identification:

Products are identified and their data documented at a speed of 2.0 m/s.

4. Sorter synchronization:

Individual products are filled into gondolas in synchronization with the sorter.

5. Sorting:

Gondolas transport the products to the sorter destinations (1 destination = 1 order) and drop the products off at the correct destination; reading errors and other errors go to the error station.

6. Order finalization:

Order totes wait beneath every sorter destination; these totes are replaced manually or automatically by the conveying system. Faulty products or orders are transported to a manual check station.



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