

VarioSort Smalls

Electrical cross-belt sorter for small- to medium-sized parcels



The challenge

As parcel volumes – in e-commerce especially – grow, CEP service providers are needing reliable, low-maintenance and high-performance sorters that can handle a wide range of smaller and harder-to-handle items. They are also tasked with including the right number of sorter modules in the available space and layout.

Our solution

Körber offers the robust and highly efficient VarioSort Smalls electrical cross-belt sorter. It is the optimal sorting solution for smaller items. One carrier is ideally designed to transport two smaller items at a time, making the best use of valuable sorter space.

It has all the essential features needed to best fulfill ever-changing sorting requirements. The mechanical design utilizes numerous off-the-shelf components, employs a future-proof industrial standard communication and control system, and can flexibly fit into various systems and layouts.

Additional benefits include short installation times as well as globally available after-sales parts and services. Active control of the item position on the cell and its discharge trajectory parabola results in higher sorting accuracy and the balanced loading of chutes. The sorter is also well-equipped to handle a wide range of small goods.

Customer benefits

- Flexible configuration – variable in length, number of inductions, outlets, sensors, and transport speed
- High availability of up to 99.5% through robust, proven technology and design
- Various inductions and chute concepts – such as bags, trays, carts and material handling – available
- High nominal throughput of up to 18,720 p/h at 2.6 m/s
- Contactless and maintenance-free drive and power supply system



Technical data

Nominal throughput	up to 18,720 items per hour
Noise level	<70 dB (A)
Carrier pitch	1,000 mm
Carrier width	650 mm (standard)
Transport speed	up to 2.6 m/s
Temperature range	0 °C - 40 °C
Relative humidity range	10% - 90% (without condensation)

Parcel sizes

Length	100 mm – 500 mm
Width	50 mm - 400 mm
Height	1 mm - 400 mm
Weight	0.01 kg* - 12 kg

* under certain preconditions

