

VarioRoute

Flexibly applicable solution for highly efficient flow splitting



The challenge

Each logistics center has its unique architecture and layout for processing a wide range of parcel sizes and formats. Sorting equipment need to handle various tasks such as directing parcel flows to sorter inductions, diverting parcels to destinations, or discharging selected parcels to reject areas. With this in mind, a flexible design is more crucial than ever.

Our solution

VarioRoute is a versatile and efficient solution designed to meet the diverse needs of modern logistics centers. It is capable of handling a broad spectrum of shipments with various sizes and packaging materials.

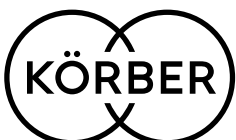
Typical applications include bulk splitting and primary sorting in the inbound area, diverting exceptions in the singulated flow, 2- or 3-way flow splitting prior to sorter infeeds, and parcel alignment.

VarioRoute is available in two versions: VR800, with a nominal width of 800 mm (31.5 in) for most the common

applications and VR1600, with a nominal width of 1600 mm (63 in), for larger parcels. Both versions are available in a variety of lengths and are based on a modular design.

Customer benefits

- A wide range of shipments: Capable of handling a wide range of items– from small to oversized – with different packaging materials like paper, carton, or plastic.
- High throughput: With up to 12,000 parcels per hour, VarioRoute sets a benchmark in the field.
- High reliability: Robust design and high-quality components ensure system availability of over 99.85%, minimizing downtime for high overall efficiency.
- Maintenance friendly: Easy and quick maintenance with short repair times, because of excellent access to components.
- Reduced noise: Extremely low noise level of under 68 dB(A), which creates a better working environment.



Technical data - metric

Length	VarioRoute 800*: 2,300 mm VarioRoute 1600**: 1,433 mm
Width (w/o cabinets)	VarioRoute 800: 990 mm VarioRoute 1600: 1,820 mm
Side guard height	300 mm
Processing level height	600 or 830 mm ± 50 mm
Transport speed	Up to 2.5 m/s
Throughput	Up to 12,000 items per hour
Pivoting angle	±45°
Dynamic load	50 kg/m²
Power rating	230 VAC, 1 phase
Effective power	VarioRoute 800*: 590 W VarioRoute 1600**: 750 W
Weight	VarioRoute 800*: ~620 kg VarioRoute 1600**: ~760 kg
Cabinet	~50 kg
Communication to high-level control system	Profinet or Digital I/O



VarioRoute 800 with belt transport module



VarioRoute 1600

Parcel spectrum

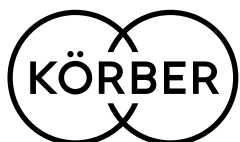
Length	100 mm – 1,300 mm
Width	VarioRoute 800: 75 – 600 mm VarioRoute 1600: 75 – 900 mm
Height	VarioRoute 800: 1 – 600 mm VarioRoute 1600: 3 – 900 mm
Weight	0.1 – 50 kg

Belt transport module for VarioRoute 800

According to the layout requirements, Belt Transport Modules can be placed both upstream and downstream of the Central Module(s) of VarioRoute 800. These belts, which boast lower friction than transport belts, allow parcels to be rotated and redirected even when they are still partially on the transport belt. At the same time, because of easy access from the top, these belts are also easy to maintain.

* with 12 Pivoting Roller Units (PRU) and 2 Belt Transport Modules (BTM)

** with 28 Pivoting Roller Units (PRU), 14 PRUs long



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Technical data - imperial

Length	VarioRoute 800*: 90.6 in VarioRoute 1600**: 56.4 in
Width (w/o cabinets)	VarioRoute 800: 38.9 in VarioRoute 1600: 71.7 in
Side guard height	11.8 in
Processing level height	23.6 or 32.7 in \pm ~ 2 in
Transport speed	Up to 492.1 ft/min
Throughput	Up to 12,000 items per hour
Pivoting angle	$\pm 45^\circ$
Dynamic load	33.6 lbs/ft ²
Power rating	230 VAC, 1 phase
Effective power	VarioRoute 800*: 590 watts VarioRoute 1600**: 750 watts
Weight	VarioRoute 800*: ~1366.9 lbs VarioRoute 1600**: ~1675.5 lbs
Cabinet	~110.23 lbs
Communication to high-level control system	Profinet or Digital I/O



VarioRoute 800 with belt transport module



VarioRoute 1600

Parcel spectrum

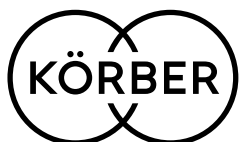
Length	3.9 – 51.2 in
Width	VarioRoute 800: 2.95 – 23.6 in VarioRoute 1600: 2.95 – 35.4 in
Height	VarioRoute 800: 0.04 – 23.66 in VarioRoute 1600: 0.12 – 35.4 in
Weight	0.22 – 110.2 lbs

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