

The demand for faster delivery, increased volume and seasonal peaks all impact the throughput of material handling systems in postal, parcel and airport facilities. The new Variobelt 2.0 conveyor system from Siemens is designed for reliable and smooth operation of singulated and bulk flow for a wide range of products.

The modular system is easy to operate and requires little maintenance. It can be tailored in length and inclination to your specific requirements.

Extensive experience in parcel and airport logistics makes Siemens an ideal partner for material handling equipment to match the requirements of many material handling systems, including postal, parcel, and airport baggage logistics.

The challenge

To offer a modular, robust conveyor construction kit for a variety of applications, which utilizes common parts, offers very high availability and low maintenance.

Our solution

Siemens has developed advanced technology for belt conveying, based on the requirements of the parcel distribution, logistics and airport baggage industries.

The conveyor is designed to fulfill the requirements of all operational areas such as inbound, sorting, and outbound, and can be configured for singulated flow or bulk transport applications.

In addition to transport sections, the Variobelt solution also offers diverters and strip belt merges. Other conveyor system components like scales, dimensioning systems, curves, etc. can be easily integrated with the Variobelt system.



Siemens Variobelt features

- **High performance** – up to 4 m/s
- **Low noise level** – less than 75 dB(A) at 1.0 m/s
- **Continuous/discontinuous and singulated/bulk flow** – one design fits all applications
- **Robust bolt-on design** – based on proven airport belt conveyor technology
- **Flexible configuration** – variable widths, lengths, speeds, in-/decline, merge, divert, redundant drives
- **Serviceability** – simple and safe bolt-on design with many standardized parts
- **Industry standard control** – offers flexibility in implementing key features such as tracking, accumulating, gap size, discharge mode (single or dual) and others
- **Global manufacturing**
- **Easy integration of auxiliary equipment** – weighing, scanning, dimension capturing, merging, sorting/diverting, tracking, singulating
- **Short lead time**
- **Pretested and assembled modules** – allow for a short installation and commissioning time on site

Robust and Easy to Customize – Variobelt 2.0 Conveyor Kit

Modular and reliable system for parcel and baggage conveying solutions



Bulk flow conveyor



Head drive



Center drive

Drive stations

The new Variobelt conveyor 2.0 offers center or head drive solutions. The efficient head drive is typically used for short conveyor lengths of up to 6 m, and the lagged-driven drum transmission gives a very quiet, non-slip and low-service operation. The deflection roller is used additionally as a tensioning device and belt adjuster. Additional tensioning stations are also available. Center drives are generally used for longer conveyor lengths of up to 40 m. Depending on the requirements, the drive configuration can be a shaft-mounted design or a tooth-strapped belt transmission. Standard motors are Siemens or SEW with a power range from 0.5 kW up to 11 kW.

Intermediate beds

These are available in different widths and will be delivered in preassembled 3-m-long sections to the site. The frame is built from rugged-steel C profiles (zinc-plated or powder-coated) that are bolted to standardized intermediate sections to form a torsion-stable frame.

The steel belt return pulleys sit in flange bearings for easy maintenance access. The belts run on the slider beds made from galvanized sheet metal, providing a low coefficient of friction. Additional carrying rollers allow a smooth belt transfer. Depending on the application, the conveyors will be equipped with different belt materials.

Configuration

In addition to horizontal transport, inclines and declines of up to 18° are offered, with or without attachment belt or variable nose-over configuration. Radius break-over is also available. Four standard side guiding heights of 150, 300, 400 and 600 mm are available.

Main design modules

- Drive station
- Head and tail station
- Intermediates
- Supports

Technical data

Dimensions

Length	1 m – 40 m
Nominal width	800, 1,000, 1,200, 1,500 mm
Frame height	140 mm
Drive power	0.5 kW – 11 kW
Drive drum diameter	110, 160, 240 mm
Pulley diameter	99 mm
Velocity	up to 4 m/s
Dynamic load	75 kg/m
Static load	150 kg/m

Product spectrum

Parcels, cartons, bundles, flyers, polybags, trays, baggage, and sacks

Length	0.15 – 1.4 m
Width	0.10 – 0.8 m
Height	0.10 – 0.9 m
Weight	0.5 – 60 kg

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

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