

GENI-Belt™

Pioneering generation of high-speed cross-belt sorters



Over 30 years of international experience in cross-belt technology

The Fives Smart Automation Solutions (SAS) GENI-Belt™ range of cross-belt sorters enable fully-automated sorting inside postal, courier, e-commerce and distribution centers. GENI-Belt sorters handle a wide range of products at high speeds of up to 3 m/sec (9.8 ft/sec), delivering outstanding sorting capacity and accuracy. Its cross-belt loop technology features a continuous “train” of carrier units. These independently operating, high-friction belt conveyors enable impactless sorting. This allows for safe, accurate and efficient transfer of all items.

- Unrivaled accuracy to support any product mix
- Operational reliability and predictive maintenance
- Fully customizable system configurations
- Noise level: less than 70 dBA

GENI-Belt™ is Fives' range of high-speed sorters, designed to safely automate sorting in postal, courier, e-commerce and distribution facilities

UNRIVALED ACCURACY FOR ANY PRODUCT MIX

GENI-Belt is a robust, fault-tolerant system that offers an unrivaled 99.99% accuracy rating, and high-capacity sorting to support any product mix. Energy-efficient and easy to maintain, it features gentle handling and total control of parcel position and behavior.

Equipped with high-friction conveyor belts, the GENI-Belt's continuous train of carrier units keep items in a controlled, perpendicular alignment throughout transportation. The closed-deck conveying surface provides reliable parcel transport that can effectively handle curves and elevation change, by adapting speed and acceleration.

FULLY CUSTOMIZABLE SYSTEM CONFIGURATIONS

The GENI-Belt line is suitable for a wide range of operations and is fully adaptable to any facility size or layout. A truly scalable investment, GENI-Belt offers modular configurations that meet the needs of today, while taking into account the growth demands of tomorrow. This adaptability can support changes to volume and product mix.

PREDICTIVE MAINTENANCE, FLEXIBLE SCHEDULING

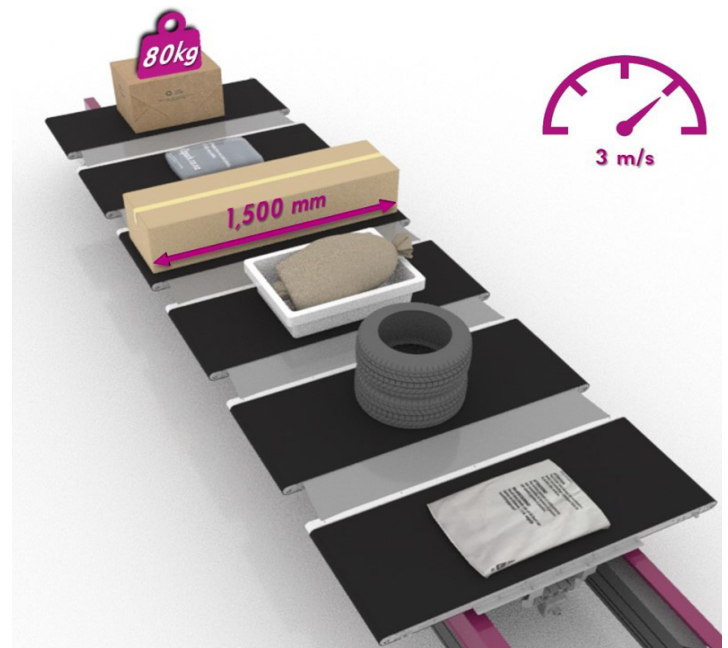
The GENI-Belt sorter contains very few moving parts, making the system simple and easy to maintain. Predictive maintenance is enabled via an integrated diagnostic controller. Therefore, corrective maintenance can be postponed until the next scheduled production downtime.



RELIABLE OPERATIONS AND ENERGY EFFICIENCY

Operationally critical components are installed alongside a twin that will effectively take over in the event of a component failure. This built-in component redundancy prevents operational disruptions throughout the entire system. As such, each sorting unit operates parallel to all others performing the same task. For further operational continuity, twin friction drive units are equipped with dual brushless motors.

Patented power-generating wheels produce an alternate source of energy to transfer loads and can provide peak energy via distributed capacitors.



Technical Specifications

Sorter cell size (LxW):	Min: 630 x 330 mm Max: 1,500 x 550 mm
Items size (LxWxH-Weight):	Min: 100 x 50 x 2 mm - 20 g Max: 1,500 x 800 x 800 mm - 80 kg
Sorter capacity	up to 24,000 items/h
Inclination	up to 15°
Sorter speed	up to 3 m/s

FIVES INTRALOGISTICS CORP.

4400 Commerce Crossings Drive, Ste. #101
Louisville, KY 40229 - USA
Tel: +1 502 636 1414
www.fivesgroup.com



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Industry can do it