

GENI-belt™

Pioneering generation of cross-belt sorters



Ultimate technology for automated solutions

- Unrivalled accuracy whatever the type of items
- Top reliability, availability and energy efficiency
- Flexible control of sorting trajectories
- Adjustable cell speed/acceleration during sortation
- Easy maintenance and low operational costs



GENI-belt™ is Fives' high speed sorters range to safely automate sorting in postal, express courier and distribution

UNRIVALLED ACCURACY, WHATEVER THE TYPES OF ITEMS SORTED

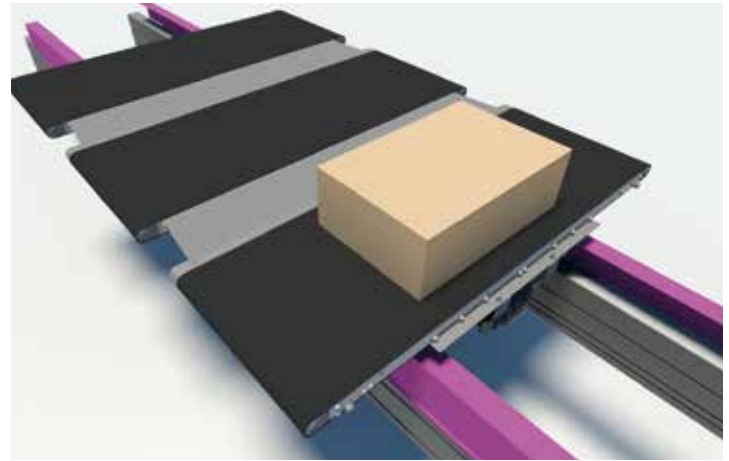
- High accuracy and sorting capacity thanks to closed deck transportation surface, variable sorting speeds and flexible trajectories
- Can handle items from small packets, documents, trays, bottle cases, fresh food, flat garments, shoe boxes to 1,500 mm long parcels, weighing up to 80 kg
- Maximized density of items thanks to "widthwise" method
- Very high speed resulting in outstanding sorting capacity
- Items aligned and kept centered in the middle of the conveyors during all transportation from feeding to unloading into outlets
- Thanks to the sorting unit new design, weight and costs are reduced

ULTIMATE RELIABILITY, AVAILABILITY AND EFFICIENCY

- Full component redundancy and fault tolerance
- Higher energy efficiency based on the distributed redundant friction driving units, each provided with 2 brushless motors
- Efficient energy transfer on board the sorter thanks to patented power generating wheels

GENTLE HANDLING AND REDUCED PERCENTAGE OF NCY

- Can be implemented in various applications: postal, express courier, and distribution
- The positive control of items behavior and the gentle handling avoids any damage or jamming of the products, reducing the number of non-conveyable items



ULTIMATE FLEXIBILITY

- Can be adapted to physical constraints
- Can be implemented in narrow space thanks to minimal cross section
- Flexibility for layout design thanks to level change up to 15°, floor supports every 6 m approx. and possibility to hang the equipment to the ceiling
- Adjustable off-loading trajectories according to item position, weight and speed

EASY MAINTENANCE AND LOW OPERATIONAL COSTS

- Predictive maintenance thanks to sorter monitored by diagnosis controller
- Maintenance operations can be postponed in case of failure
- No need for emergency or specialized maintenance

Technical features*

Sorter cell size	min. 630 x 330 mm	max. 1,500 x 550 mm
Item size	min. 100 x 50 x 2 mm	max. 1,500 x 800 x 800 mm
Item weight	min. 20 g	max. 80 kg
Sorter capacity	up to 24,000 items/h	
Inclination	up to 15°	
Sorter speed	up to 3 m/s	

*Actual specifications are depending on system configuration and subject to change

- Very precise off-loading trajectories
- Adjustable cell speed/acceleration during sortation
- Variable sorter speed up to 3 m/sec

The GENI-belt™ MD, eco-designed technology to maximize customer's environmental performance

-14% | rolling friction of the generating wheels

+15% | sorter driving units efficiency

92% | recyclable materials



-28% | weight

-23% | energy consumption

Figures are compared to previous SBIR MD cross-belt sorter

ECO-MODE

Experience highlights that sorters are usually under-used during most of their life-time.

The GENI-belt™ MD is equipped with eco-mode, a tailor made and flexible function which:

- automatically adapts sorting speed according to sorting capacity needed
- optimizes energy consumption
- extends sorter lifetime

18%* | energy saving

-25% | travelled distance per year

*Compared to sorting systems driving groups without self-adapting speed

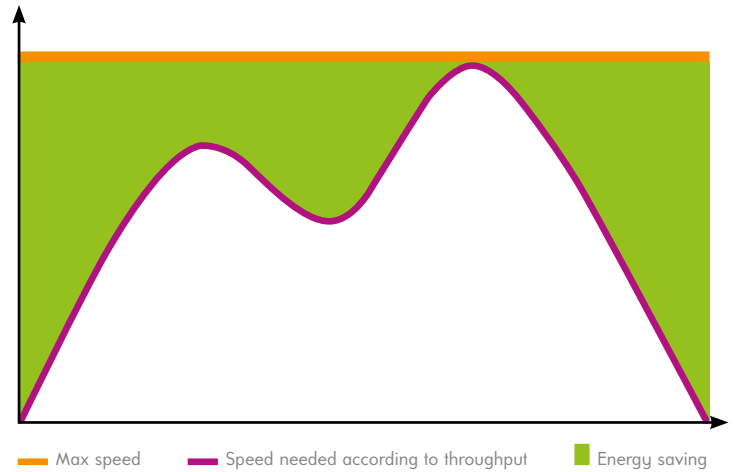


Illustration of energy savings

When the sorter is under-used, eco-mode automatically reduces sorter's speed to save energy.



Engineered Sustainability®

Fives designs technologies of today to meet the environmental goals of tomorrow

The commitment of Fives is to provide technologies that combine operational excellence and high environmental performance.

The Engineered Sustainability® brand focuses on technologies that have been subject to:

- Life-cycle analysis of the environmental impacts,
- Systematic analysis of the impacts and means of

improvement to make the best economic and environmental selections,,

- Tests to prove tangible and quantifiable benefits.

Engineered Sustainability® assures customers that their investment in Fives is part of a sustainable way in their environmental strategy.

www.engineered-sustainability.com

GENI-belt™ combines experience and innovation in one product



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