

# GENI-belt™ BH

The cross-belt sorter for Baggage Handling System



The best alternative to traditional tilt-tray sorter

- Unrivalled accuracy whatever the type of baggage
- Compact design, ultimate flexibility
- Top reliability, availability and energy efficiency
- Easy maintenance and low operational costs



# The GENI-belt™ BH, Fives' ultimate alternative to the traditional tilt-tray sorter

GENI-belt™ BH is a high speed and high capacity cross-belt sorter featuring high friction cross-belt conveyors and continuous positive control in handling, tracking and sorting of the bags.

The closed deck transportation surface, the variable sorting speeds and the flexible trajectories provide high accuracy and prevent bags from jamming during transportation, as well as from sliding during both loading and discharge. The bags are kept **centered in the middle** of the sorter cell and discharged directly onto a horizontal belt conveyor **without tilting**.

## UNRIVALLED ACCURACY WHATEVER THE TYPE OF BAGGAGE

- 99.99% of system accuracy
- Continuous positive control of the bags: no rolling nor sliding during loading and discharge
- A large variety of baggage handled thanks to flat conveying surface and high friction
- Heavy bags up to 80kg can be handled

## COMPACT DESIGN, ULTIMATE FLEXIBILITY

- Suitable for both retrofit and new projects
- Can be adapted to any physical constraints
- Can be implemented in narrow space thanks to minimal cross section
- More flexibility for layout design thanks to level change at 11° and floor supports every other 6m



## ULTIMATE RELIABILITY, AVAILABILITY AND EFFICIENCY

- Closed transportation surface to avoid bags jamming
- Higher energy efficiency and reliability based on the distributed redundant friction drives, each provided with 2 synchronous motors
- Efficient energy transfer thanks to fault tolerant generating wheels
- Full component redundancy and fault tolerance
- Maintenance operations can be postponed in case of failure

## EASY MAINTENANCE AND LOW OPERATIONAL COSTS

- Diagnosis controller monitors the system and reduces preventive maintenance works
- No emergency maintenance needed
- No specialized technicians needed

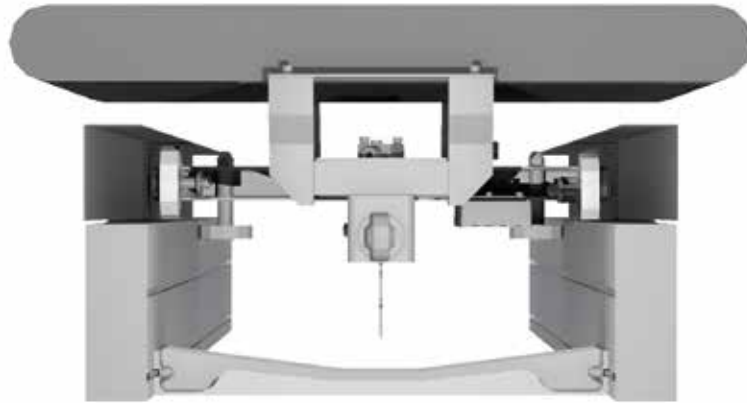
Technical features*	
Carrier pitch	1,100 mm
Belt dimensions	1,000 x 900 mm
Variable sorting speed	from 1m/s to 3m/s
Maximum bags size: - single cell loading - double cell loading	900 x 900 x 900 mm, 80kg 1,400 x 800 x 800 mm
Standard curve radius	3,300mm
Level change and spiral curves	11°
Data transmission	Contactless magnetic filed modulation
Distance between two supports	Up to 6m
Bag recentring unit	Before discharge zone

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

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

-14% | friction of the generating wheels

+15% | friction drive efficiency



92% | recyclable materials

-28% | weight

-23% | energy consumption

Figures are compared to previous SBIR MD BH cross-belt sorter

## ECO-MODE

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

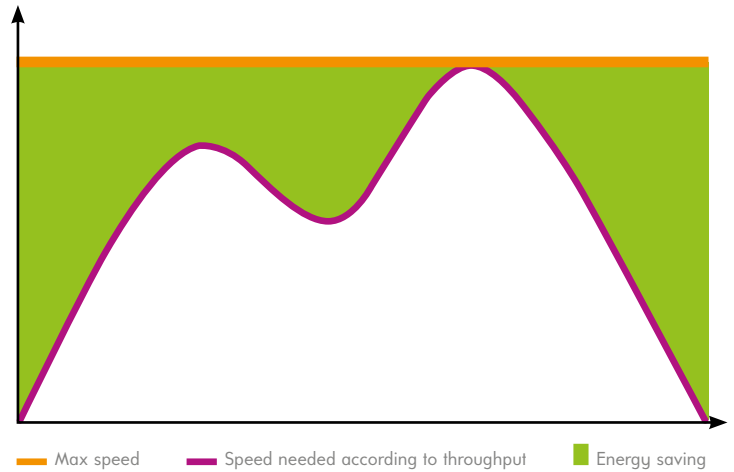
The GENI-belt™ BH is equipped with eco-mode, a tailor made and flexible function which:

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

10%\* | energy saving

-25% | travelled distance per year

\*Compared to traditional sorting systems



## 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](http://www.engineered-sustainability.com)

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# The ultimate solution to optimize baggage handling systems

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