



BG SORTER ET

TILT-TRAY SORTER FOR AIRPORTS

HIGH CAPACITY, HIGH SPEED TILT-TRAY SORTING SYSTEM

The BG Sorter ET tilt-tray system's high capacity and ability to handle a wide range of baggage shapes and sizes increases operational throughput without the need for additional floor space. In many airports this extra capacity may be sufficient to cope with forecasts for increased passenger numbers without having to make a major investment in a new terminal building. In projects where a new build is still required, BG Sorters sorters ensure that every cubic metre of space is used to its full potential.

In baggage handling operations there is no doubt that a fast and efficient sorting system is an absolute necessity and contributes greatly to smooth running of your airport and passenger satisfaction. With the BG Sorter ET you can combine speed and efficiency

FEATURES

- › High capacity sortation
- › Steel-framed sorter track and tested tilt-trays for exceptional reliability
- › Redundant and contactless LSM drive systems for uninterrupted operation
- › Modular design with extensive layout variations
- › Energy-efficient LSM drive with low-friction bearings and minimal operational noise

BENEFITS

- › Highest possible utilisation of capacity
- › Seamless integration into existing facilities with minimal space requirements
- › Predictive maintenance and operational insights to maximise uptime
- › Low total cost of ownership through reduced maintenance, spare parts, and energy use

ENERGY EFFICIENT BAGGAGE HANDLING SYSTEMS



in operations with low power consumption and mechanical reliability – which translate directly into lower running costs.

HIGH LAYOUT FLEXIBILITY

Another innovation introduced by this generation of sorters is a major improvement in the efficient use of available space. BG Sorters sorters are based on a common installation and technology platform that achieves high levels of system capacity and throughput, even in a space-constrained footprint.

The compact footprint and modular design of the sorters optimises their integration into an existing facility. This space-saving design provides valuable extra room above the sorter and on the floor. The modular design, with low section heights and up to six metres between supports, frees valuable space above the system and at floor level, which can be used for sprinkler systems, personnel and vehicle access or for additional conveyors, sorting and storage systems.

This optimises integration into an existing

facility and in both new-build and existing systems the sorters increase design versatility by providing full access to multiple floor levels. They feature a frame incline of up to 10 degrees and track level changes up to seven metres.

All sorters from the BG Sorter series are constructed using the same optimised technology platform to ensure fast, trouble-free installation and commissioning, as well as maximising reliability and availability. The versatile, modular design is based on standardised units, which integrate mechanical and electrical components, as well as low-level and high-level IT and controls that are fully tested and certified in-house prior to installation.

ENERGY EFFICIENCY AND SUSTAINABILITY

The sorter's linear synchronous drive system (LSM), low-friction bearings, and optimised cartwheel materials deliver industry-leading energy efficiency.

Efficient operation and use of recyclable materials further reduce environmental

impact, combining high performance with sustainable design.

Sorter velocity is up to 3m/sec with 'banking' around curves – trays tilt through curves to counter centrifugal force and keep the load centred in the tray. The trays are realigned immediately after exiting the curve to keep the speed of the sorting system.

LOW WEAR AND TEAR

The BG Sorter design also sets a new low benchmark for total value of ownership. The BG Sorter lowers operational costs through minimal maintenance, reduced spare part requirements, predictive maintenance tools, and support for operational optimisation.

Reducing the level of routine maintenance, as well as the frequency of replacing parts, not only reduces labour and materials costs to an absolute minimum, but also provides a higher level of system availability.

A further advantage of the sorting system is that it operates at an ultra-low acoustic noise level, creating a safer and more pleasant working environment for airport staff.



IMPROVED SOFTWARE SOLUTIONS

The BG Sorter comes with the BG Software Suite, a modular software base with a friendly user interface.

Intelligent baggage identification, precise baggage flow control, and comprehensive supervision ensure seamless and high-capacity operations.

Data analytics and dashboards provide real-time insights, enabling proactive maintenance and continuous BHS optimisation.

CHUTES FOR THE BG SORTER OFFER:

- › Optimal arrangements for every type of baggage make-up procedure
- › Item transfer at high speed
- › Gentle handling
- › Batching
- › Smooth handling to minimise jams and best presentation
- › Ergonomics for efficient end-of-chute operations
- › Efficient layout for smooth floor operations

INDUCTIONS FOR THE BG SORTER OFFER:

- › Dynamic functionality
- › Balancing algorithms
- › Handling a wide range of items
- › High degree of automation
- › Gentle handling
- › High capacity for best use of sorter
- › Ergonomics
- › Low noise

SPECIFICATIONS

- › Modular concept based on standard elements.
- › Drive system: Linear Synchronous Motor (LSM).
- › Sorter velocity: up to 3 m/sec (590 ft/min).
- › Noise level: 62 dB(A).
- › Maximum item length: 1000 mm (39.4") single tray; 1600 mm (63") spanning two-tray.
- › Maximum item width: 1000 mm (39.4"). Maximum item weight per tray: 50 kg (110 lbs).
- › Maximum frame incline/decline: Up to 10° in both straight and curve sections, optional tray design can allow for slight increase.
- › Temperature range: 0°C (32°F) to +45°C (113°F); extended range possible with the addition of special heating and/or cooling elements.

