



# BG SORTER CB

## FLEXIBILITY IN CROSS-BELT SORTING

The BG Sorter CB introduces innovative features which increase the level of efficiency, throughput and flexibility for high-capacity automated sortation.

A new full cross belt, contactless energy supply and real-time wireless communications help to ensure the highest quality of sortation and an extended handling mix. These features allow almost all items to be handled through the automated system resulting in higher efficiency and later cut-off times for customers.

The BG Sorter CB also minimises Product Life Cycle Costs (PLCCs) due to the reduced maintenance levels and operating costs delivered by its energy-efficient technologies. The system also contributes to the environmental sustainability and to an improved return on investment (ROI).

### FEATURES

- › High-capacity sortation with the widest mix of items
- › Modular design with flexible belt configurations and drive system options
- › Energy-efficient drive system
- › Optimised operation with intelligent communication.

### BENEFITS

- › Highest possible availability and flexibility to optimise capacity
- › Optimum sortation quality from real-time wireless communication
- › Safe handling during induction with item monitoring
- › Diagnostic tools and condition monitoring provide lower product life-cycle costs.

# FULL CROSS BELT DESIGN BRINGS GREATER FLEXIBILITY



## FULL CROSS BELT DESIGN ADDS FLEXIBILITY

A new full cross belt design extends the proven capabilities of cross-belt technology and brings greater flexibility to the sortation process.

The length and width of the belt section have been increased to an unprecedented level. This innovation provides greater flexibility for the sorter to handle larger items up to 1500 mm in length and 1000 mm in width on the same system as fragile and high-friction items.

A choice of belt configurations adds to the sorter's flexibility. The Flexbelt option can extend capacity by handling two items per belt, whilst the triple belt design handles up to three items on each carriage. The increased capacity provided by these options ensures that the BG Sorter CB delivers maximum efficiency and throughput.

## REAL-TIME COMMUNICATIONS IMPROVE SORTATION QUALITY

Wireless communication provides contactless, secure and interference-free data transmission for the sorter controls.

Real-time communication optimises efficiency with sortation accuracy timed down to milliseconds. This precise level of control enables full optimisation of the discharge process.

The wireless sensors can communicate with all sorter components to instantly adapt the discharge profiles or by-pass a full chute by re-routing items on-the-fly. This new feature is a big step up from conventional infrared technology that has to link to multiple sensors. Intelligent controls also allow a more precise induction process, including automatic repositioning of items to ensure stable sortation in an even flow with precise discharge into each chute.

## INDUCTION UNITS FOR THE BG SORTER:

- › 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



### 'NO WEAR' TECHNOLOGY CUTS MAINTENANCE COSTS

The BG Sorter CB is designed to minimise maintenance costs throughout the system. In addition to being advanced diagnostic and condition monitoring ready, the sorter's special features also include a contactless energy supply and the elimination of contact between the moving parts of the sorter. These features help the BG Sorter CB to reduce maintenance costs significantly compared to conventional systems.

Cost is removed by minimising spares inventory and maintenance levels. The advanced diagnostic and condition monitoring tools ensure early detection of potential malfunctions to support a more proactive and targeted maintenance programme. In addition, remote configuration directly from the control room or BEUMER Group's Hotline Support contributes to a reduction in sorter down-time.

### ENERGY-EFFICIENCY AND RELIABILITY DRIVE LOWER PLCCS

Optimised availability and reliability are combined with a choice of energy-efficient drive systems to reduce Product Life Cycle Costs (PLCCs).

The BG Sorter CB offers a choice of an OptiDrive system or Linear Synchronous Motors (LSMs). Both systems deliver high energy efficiency which reduces operational costs. The reduced energy consumption also makes a significant contribution to improving the environmental sustainability of the sorting process.

With its robust steel frame and high build quality, the BG Sorter CB is designed to provide assured long-term reliability and a return on investment. The use of a common sorter platform and frame adds to the system modularity and longevity by enabling easy extensions or upgrades which can help deliver further increases in capacity.

### CHUTES FOR THE BG SORTER:

- › Optimal arrangements for every type of packing and palletizing procedure
- › Gentle handling
- › Batch segregation
- › Smooth handling to minimise jams
- › Ergonomics for efficient end-of-chute operations
- › Efficient layout

## SPECIFICATIONS

- › Drive systems: OptiDrive or Linear Synchronous Motor (LSM)
- › Power supply: Contactless energy supply
- › Real-time wireless communication system
- › Maximum item length: 1500 mm (59") on one belt
- › Maximum item width: 1000 mm (39.4") on one belt
- › Maximum item weight per carriage: 50 kg (110 lbs)
- › Sorter speed: up to 3 m/sec (590 ft/min)
- › Belt configurations per carriage:
  - Single belt
  - Double belt
  - Triple belt
- › Sorter frame: steel

