

# Cross-Belt Sorter

GBI's new Cross-Belt Sorter incorporates many of the latest innovations together with GBI's proven programming and controls to provide a reliable, high capacity and flexible system. GBI's new Cross-Belt sorter features contactless induction motors to drive the cars and wireless infrared communications to transmit on-the-fly instructions reducing wear and maintenance requirements. Among our many features are automatic induction, full tracking, weigh-in-motion and dynamic deployment.

## Feature Rich System

- Sorts a wide range of items or packages, with weights up to 100 pounds (46 kg)
- Fast Sort Rates with custom configurations, up to 15,000 pieces per hour (250 per minute), per load station
- Automatic Loading, allows for a high loading efficiency
- Propelled by contactless induction motors
- Smart Car Technology, uses infrared communications
- Smart-Car Unit standard size is 24" x 24" with custom sizes from 14" x 24" to 32" x 24"
- Optional split-belts enable faster sort rates up to 24,000 pieces per hour, per load station
- Dynamic on-the-fly car programming dictated by individual and unique requirements
- Custom Chute Configurations
- Modularly constructed for ease of maintenance, support and rapid expansion
- Custom Logic & Controls
- Wireless power (optional)
- Flexible Sorter Layout & Configurations
- Quiet operation
- Fully Integrated with Host Systems
- 24/7/365 Technical Support

### Cross-Belt Unit "smart-car"



Each cross-belt unit has its own independent controls. Each "smart car" is equipped with a central processing unit that is programmed to perform a myriad of dynamic functions such as belt acceleration, turn rate, distance and timing in a multitude of combinations as dictated by circumstances.

### Induction Merge Conveyors

Merge conveyors at three induction stations automatically meter parcels for induction onto a cross-belt unit.



Bulk Product Feed Conveyors (optional)

Carton Supply Conveyor



### Induction Stations

Induction Stations (3 shown) - Bulk product is conveyed to the induction merge conveyors, where an identifying barcode is scanned. One item at a time is then placed onto the metered merge conveyor system. The control system then inducts the product onto the next available cross-belt unit.

### Chutes

Custom chute configurations. As shown here - sort point guides product into a carton, placed on the bench beneath the chute.

### Display Module (optional)



Each chute may be fitted with a display module, with a two-digit display window and a tricolor indicator light, used to keep operators instantly informed of the status of the corresponding order being sorted to that drop location.

### Wireless Power (option)

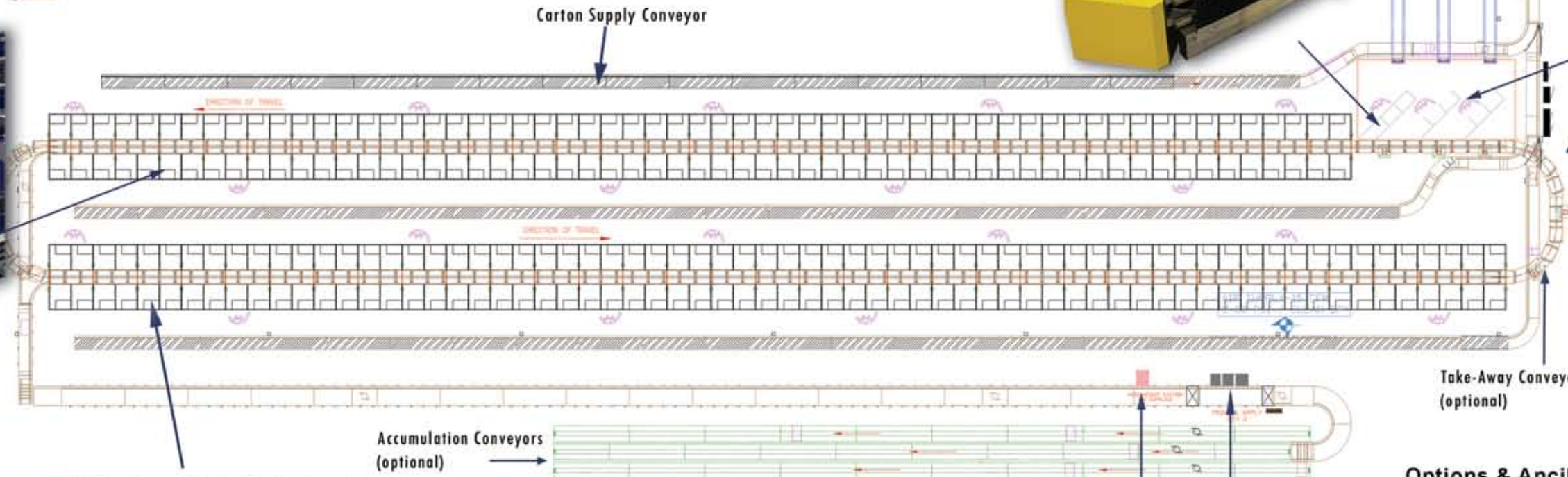
The Standard means of power transfer is to employ industry proven and mature active travelling conductors along a continuous track. However, with GBI's wireless power option the carriers can receive their power over air by utilizing the latest technology using inductive energy transfer. There are no wires between cars and all power is transmitted without contact between the track and the carriers. The result is little or no maintenance costs, long life cycle, and superior reliability over traditional methods.

Weigh Station (optional)  
in-line, weigh-in-motion

Label Applicators (optional)  
print & apply on-the-fly

### Options & Ancillary Components (not shown):

- Various display and notification methods
- Custom belt and surface finishes to suit your product
- Custom Conveyors & Controls, such as: Take-Away, Bulk Product Feed, Carton Supply, and Accumulation
- Label Applicators: print & apply (on-the-fly)
- Weigh Stations: in-line (weigh-in-motion)



Take-Away Conveyor (optional)

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- Weigh Stations: in-line (weigh-in-motion)