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DAMON



## Multi Belt Cross Belt Sorter

• Narrow Belt •



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## Product Overview

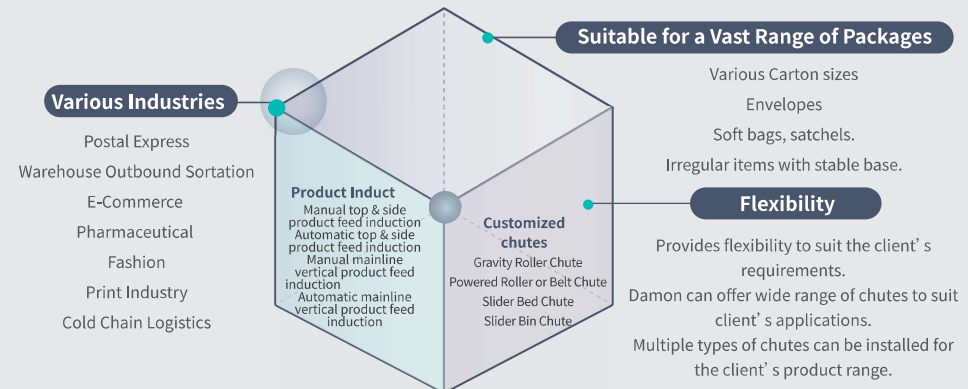
The Damon multi-belt cross belt sorter is a cutting-edge solution for efficient and precise sorting in various industries, from e-commerce fulfillment centres to postal services. With its advanced technology, it can handle a wide range of products, including parcels, letters, and even irregularly shaped items. Equipped with multiple belts running perpendicular to the main conveying direction, this sorter can divert items to different chutes or destinations with high accuracy and speed. Its modular design allows for scalability and customization to suit specific operational needs, making it adaptable for facilities of all sizes. The sorter's intelligent control system ensures smooth operation and minimal downtime, maximizing productivity and throughput. With its robust construction and reliable performance, the Damon multi-belt cross belt sorter is a trusted solution for streamlining sorting processes and optimizing logistics operations.



## Product Advantages



## Applications



## Technical characteristics

### 1 Modular

#### Fast delivery

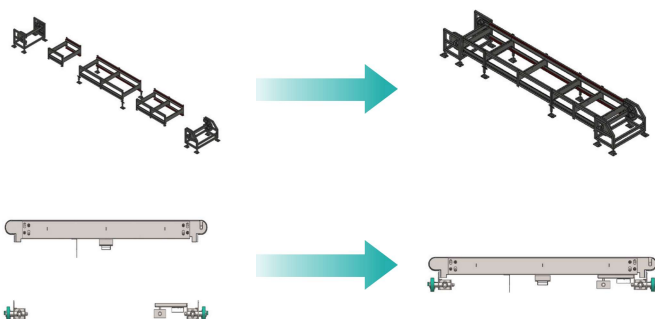
The sorter is comprised of modular sections. Simple and efficient for site installation, without any welding or fabrication.

#### Easy to maintain

With a joint moving platform, cross belt cart and simple bearing link, provides easy maintenance access to internal parts.

#### Failure warning

Embedded fault detection module to prevent and find potential problems, improve equipment safety.



### 2 Infrared communication technology

#### More stable

Simplified transmission. Reduced intermediate links. Provides more data transmission.

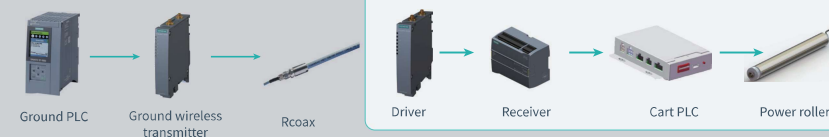
#### More concise

Carts only need power supply cables, eliminating complex controllers and communication cables.

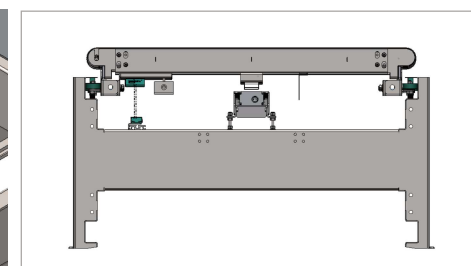
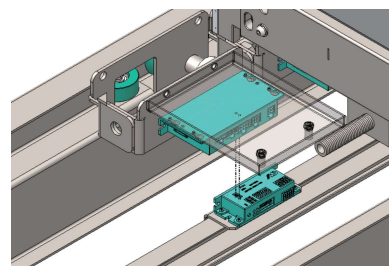
#### More reliable

Infrared penetration is reliable and is not disturbed by dust or external signals.

#### Rcoax+ RS485

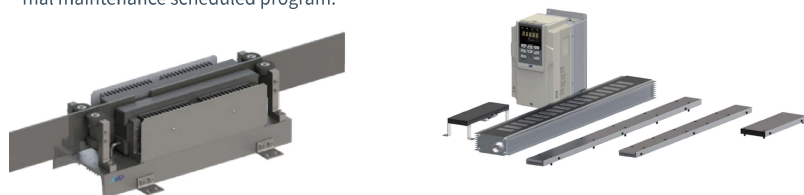


#### Infrared communication



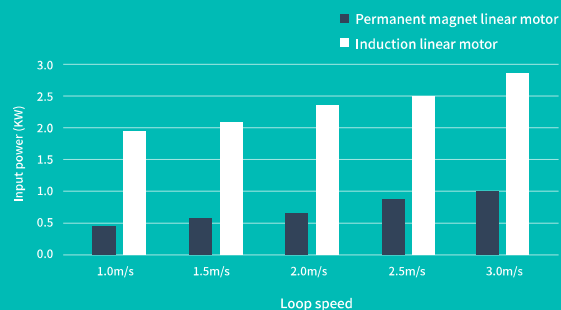
### 3 Distributed synchronization drive

The Damon Multi Belt Cross Belt Sorter is installed with a linear drive; therefore, no sprockets, chains or other transmission parts are not required. The design provides a long-life and minimal maintenance scheduled program.



Asynchronous motor	Synchronous machine
High energy consumption	Introducing permanent magnets brings more than 60% energy saving
The weight is 70kg, difficult to install and maintain	Lightweight design, installation and maintenance without lifting equipment
The height is 260mm, occupying the structural space	Flat design, conducive to reduce the height of the structures
The secondary plate needs to be inserted into the motor with the risk of friction and collision guide wheels	No-contact design, with an air gap of 4-6mm
The fan provides cooling and requires regular inspection and maintenance	Natural convection and heat dissipation, without a fan

Energy consumption measurement



Energy consumption and cost savings



## Product Specification



Name	Cross belt sorter(narrow belt)
Model	DCBS-06
Specification series	DVCS-1200*P200
Pitch	200mm
Loading unit specification	1200*165 mm
Height	≥1100 mm
Maximum goods specifications (mm)	1200L* 1000W * 800 H
Minimum goods specifications (mm)	150L * 150W * 10H
Load Capacity	0.3~60 kg Maximum load capacity of single belt is 10kg
Sorting goods categories	Express, parcel, carton, turnover box, clothing, etc.;
Running speed	2.0 m/s
Top feeding	9000 pcs/h
Main line drive	Linear synchronous motor (MD)
Cross Belt Cart	48V servo power roller
Chute entrance width	≥1500mm
Pallet power supply	Slide wire
Communication mode	Infrared communication
Error rate	≤0.01%
Sorter length	≤100m/set
Running noise	≤75dB