

Through an intelligent sorting system, the FleetSort solution manages S-series robots and other smart equipment. FleetSort can be implemented in various business scenarios, including global express courier services, footwear & apparel sectors, and FMCG industries. In addition, FleetSort can contribute to the intelligent upgrading of traditional warehouse operations.

Application: Cross docking sorting, order sorting, parcel sorting
Applicable Industries: Courier services, footwear & apparel, e-commerce, FMCG

Model					
Dimensions (l*w*h)		560*510*1345mm	560*600*1027mm	560*600* (570-1150) mm	1170*832*590mm
Weight		70kg	75kg	100kg	235kg
Payload		8kg	20kg	20kg	100kg
Max load size	Man Load	320*320*300mm	600*420*400 mm	600*420*400 mm	Single package: 750*1000*600mm Two packages: 750*450*600mm
	Conveyor Load		520*400*400mm	520*400*400 mm	Single package: 720*1000*600mm Two packages: 720*450*600mm
Carrier Surface Height		1276mm, Customizable	1000mm, Customizable	570mm, 800mm, 1030mm 550-1100mm, adjustable	540mm, Customizable
Unloaded Speed		2.5m/s		2.5m/s	2.0m/s
Uploaded Speed		2.0m/s		2.0m/s	1.6m/s
Stop Accuracy		<10mm			
Run Time		10 mins charging for 1.5h full work		10 mins charging for 1.5h full work	10 mins charging for 2-3h full work, support user-defined scenario
Battery Life		Full charging and discharging cycle > 2,000			
Obstacle Detection Sensor		LiDAR		LiDAR	Infrared sensor, LiDAR supported

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MOVING THE WORLD
INTELLIGENTLY

CONVEYOR LOGISTICS
Empowered by Geek+

FleetSort

Flexible Sorting Solution

Automatic Docking

- Flexible solutions for automated equipment docking
- Integrate our solutions seamlessly with your company's infrastructure
- Adaptability to fluctuations in business demands

Intelligent Cooperation

- Intelligent operations for Multi-Robot Cooperation
- Accurate control over robotics
- Effortless integration with other automated equipment

Flexibly combine with Picking robots

- Multi-floor layouts
- Single-floor layouts
- Fully automated warehouses

What Makes It Special?



Flexible Solution

- Floor-based robot designed with belt delivery device, seamless docking with conveyor, and chutes to fulfill auto induction
- No single point of failure
- Goods, parcel, and tote sortation; interoperability with Geek+ picking and moving robots to fulfill more automatic solutions



Flexible Implementation

- No fixed equipment needed; QR code navigation provides greater flexibility in terms of system design and layout
- Easy relocation at any time to suit business model adjustments



Flexible Layout and Scalability

- Sorting destinations can be added to increase capacity and improve efficiency to meet long-term demands



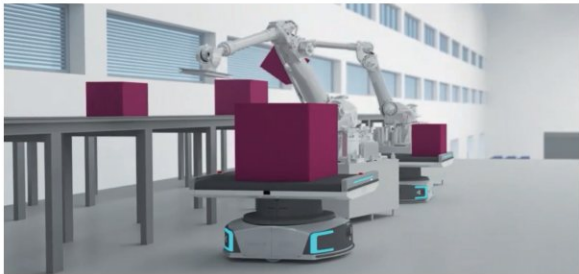
Cost Effectiveness

- Phased implementation to ease financial pressure

Parcel Sorting

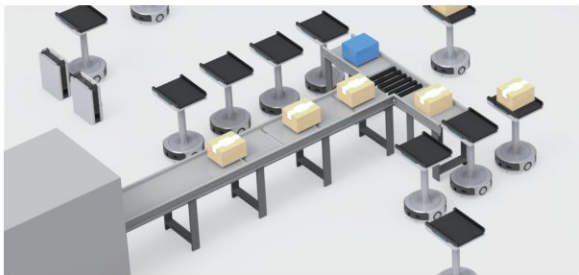
Workflow: After code scanning at the induction station, the parcel information is uploaded to the sorting system. Then, the robot receives the parcel by manual infeed or automatic infeed from the conveyor. Next, the robot delivers the parcel to the corresponding sort destination.

Applicable Industries: 3PL, e-commerce, retail, post, library, food, and pharmaceuticals



Supports The Sortation of Heavy and Large Parcels

- Capable of handling and delivering heavy parcels up to 100kg
- The maximum parcel size is 1000mm*750mm, making the robot applicable to many industrial scenarios, from 3PLs and distribution centers to cross-docking facilities and airports



Highly Flexible, Easy to Dock with Various Types of Equipment for Highly Automated Solutions

- Capable of cooperating with P-series picking robots to realize fully automatic tote changing and reduce labor costs
- Can easily dock with other automation equipment, such as conveyors, robot arms, packing machines, etc.



Supports Sorting Operations with A Large Number of Destinations

- Suitable for last-mile delivery and route sorting
- Height-adjustable robot enables multi-layer sorting

One-step Picking & Sorting

Next generation picking + sorting solution, expanding the limits of traditional single-type robot picking solutions, solving batch picking and order sorting in one step.

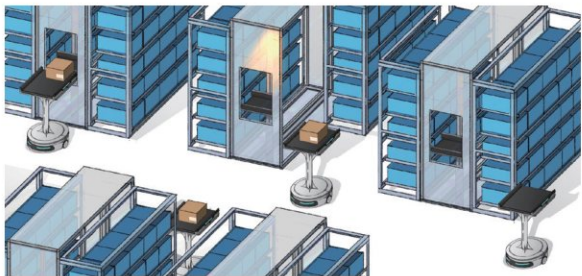
Workflow: The P-series robot takes the shelf with multi SKU containers to the sorting infeed station; the operator picks the goods from the shelf, then scans the barcode and puts the corresponding number of goods onto the S-series sorting robot according to the system's command. The S-series robot moves the goods and delivers it to the Vertical Sorting Wall (VSW). Then, the sorter of VSW sorts the goods to the corresponding order tote.

Applicable Industries: 3PL, e-commerce, retail, post, food, and pharmaceuticals



Increases The Number of Orders in One Wave and The Efficiency of The Picking Station

- Increases the number of orders by 80% in one picking wave
- Increases the picking order lines, thereby decreasing the total moving distance of P-series robots to boost the overall efficiency



Supports Multiple Tote-changing Solutions

- Supports both single tote-changing and shelf-changing methods to meet the requirements of different sorting scenarios
- Highly customizable level; supports various dimensions of order totes on one shelf

Vertical Sorting Wall

Type	VSW1.0
Dimension (l*w*h)	710*2740*2178 mm (Not including rack)
Payload	3kg
Max. load size (l*w*h)	400*400*300 mm
Min. load size (l*w*h)	50*10*10mm
Cycle time	<=6sec/piece
Emergency stop	Support
Certificate	CE

