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LOGIANT

FlyPick Robots

Small piece intelligent fast sorting solution

🚀 High efficiency

There are up to 30000 sorting destinations, and AGVs and 3D sorting machines work together to achieve a sorting accuracy rate of up to 99.99%

🛥 Fast delivery

The production installation and debugging cycle is short and can be remotely debugged. The fastest delivery is 2 weeks.

⏁ High flexibility

Highly modular design, customized design layout can be made according to customer needs, and the number of AGV can be increased or decreased according to peak and off seasons.

🪙 Save space

The system occupies a small space and can choose single-layer, double-layer, and three-layer AGV platform, improving sorting efficiency by 2-3 times on the same area.

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Applied industries

E-commerce

Express

Shoes&apparels

Books

Pearls&jewels

Supermarket

Applied scenes

- Selection of small and medium-sized/irregular packaging items

- Various business scenarios such as B2B/B2C

- Efficient sorting of hot/fast-moving consumer goods

- The picking volume fluctuates greatly between peaks and valleys

- Limited working space

E-commerce

Express

Books

Supermarket

Shoes&apparels

Pearls&jewels

FlyPick Intelligent Sorting Robot

FlyPick robots is a highly flexible table sorting system for sorting needs such as order picking. The system can increase or decrease platform robot tables as needed, and adjust the number of sorting slots. It is suitable for order wave picking, store replenishment (sorted by store), return processing (sorted and shelved by SKU), and other scenarios. It is suitable for the forward and reverse sorting needs of many industries such as express delivery, retail, supermarkets, shoes and clothing.

Core advantages

A 5-in-1 intelligent picking solution that combines high efficiency, high flexibility, high return, fast delivery, and space saving.

High efficiency
With up to 30000 sorting destinations, AGV carts and 3D sorting machines work together, achieving a sorting accuracy rate of up to 99.99%

High flexibility
highly modular design, customizable design layout according to customer needs, and increasing or decreasing the number of AGV cars according to peak and off seasons.

High return
Low equipment investment, high system stability, and short investment payback period.
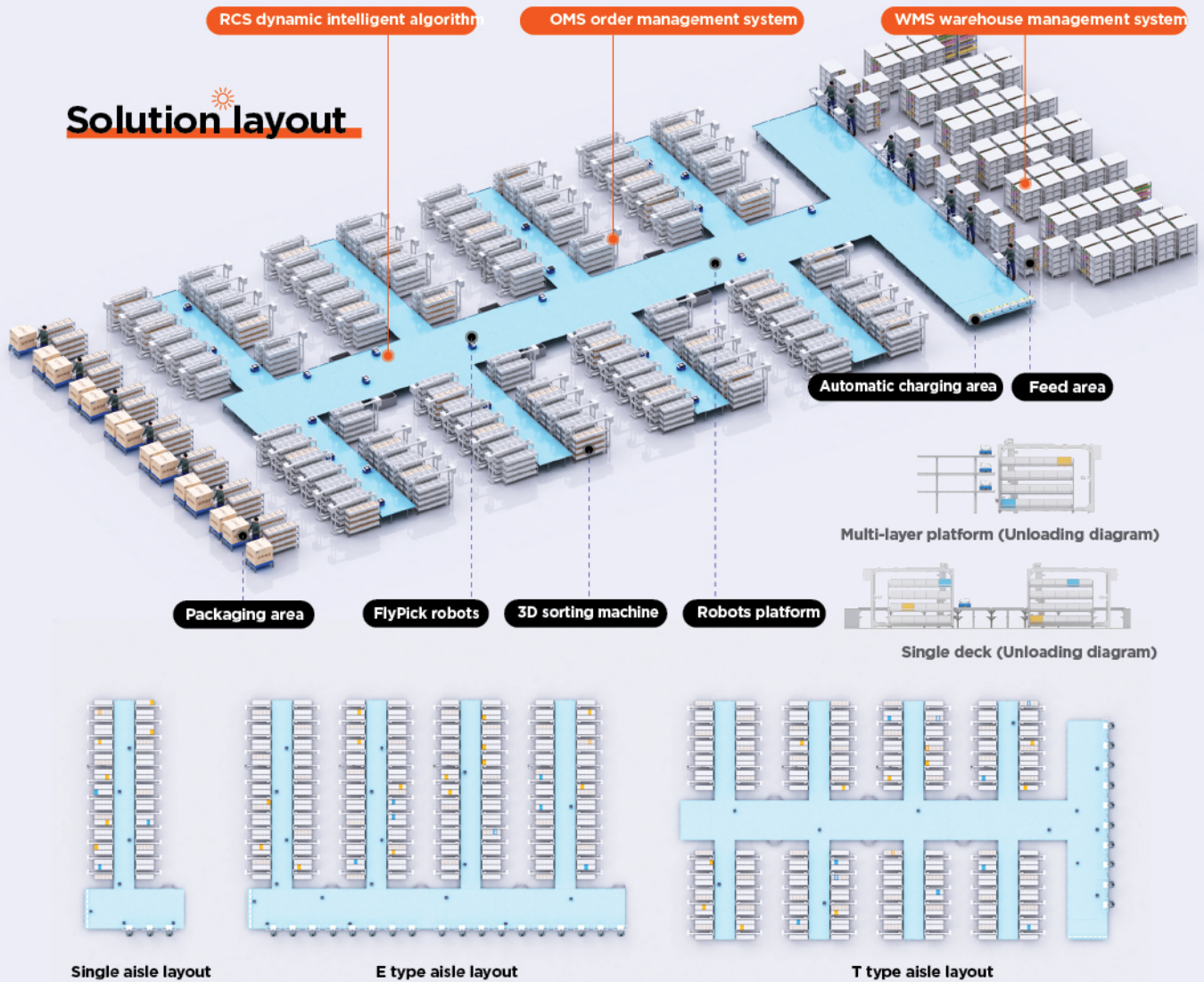
Fast delivery
The production installation and debugging cycle is short, and remote debugging is possible. The fastest delivery is 2 weeks.

Space saving
The system occupies a small space and can choose single-layer, double-layer, and three-layer AGV platforms, improving sorting efficiency by 2-3 times on the same area.

Solution layout

RCS dynamic intelligent algorithm

OMS order management system

WMS warehouse management system

Automatic charging area **Feed area**

Packaging area **FlyPick robots** **3D sorting machine** **Robots platform**

Multi-layer platform (Unloading diagram)

Single deck (Unloading diagram)

Single aisle layout

E type aisle layout

T type aisle layout

Scheme composition

LOGIANT RCS robot control system for automatic sorting system, used to achieve automatic sorting function. This software includes modules such as human-computer interaction interface, robot on/off function, robot scheduling and management, path planning, site monitoring, robot communication, scanning table communication, external data communication, waybill data receiving and parsing function, address database support, replenishment, waybill photo service, log generation and charging, elevator lifting, etc. The system has high integration, simple operation and maintenance.

Magic Carpet

The new generation of ground navigation technology is wear-resistant, dirt resistant, stable, and precise.
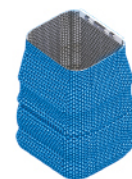
Charging station

supports continuous operation of robots and can adapt to low-temperature environments in cold storage.

Automatic scanning equipment

The system automatically scans the information of the package, and the robot autonomously delivers it to the destination.

Full package automatic detection

After automatic detection of full packages, prompt for manual removal of full bags/bins.

FlyPick robots

LOGIANT independently develops FlyPick robots, which adopts high-precision navigation, servo motor drive, low energy consumption, high efficiency, high flexibility, and can achieve efficient and precise sorting of small items.

- Low energy consumption
- High efficiency
- High flexibility

Magnetic/QR code navigation	5Kg	480mm
Navigation type	Rated load	Rotated diameter

45°-75°	2m/s	1.5m/s²	Audible and visual alarm	Tray/Conveyor
Tray flip angle	Max. travelling speed	Max. acceleration	Safety protection	Unload type

3D sorting machine

LOGIANT has independently developed a 3D sorting machine, which is composed of a 3D sorting arm and two side sorting walls. It can automatically dock with sorting robots and complete the distribution and feeding of materials. The modular design ensures flexible, efficient, and accurate layout.

- Automatic feed
- Flexible layout
- High effcency and accuracy

2500 x 900 x 2450 mm	450 Pieces / Hour
External dimension	Sorting effcency

460 × 350 mm	0.05 - 5 Kg
Sorting material dimension	Sorting material weight

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