

OPTIMAL SOLUTIONS FOR THE E-COMMERCE INDUSTRY

Technological partnership with Libiao Robotics

**The changing e-commerce market requires
companies to be flexible and adapt to new realities.**

- **AirRob** Bin-to-Person System
- **T-Sort System** Intelligent Sorting
- **3D Sorter System** Three Dimensional Sorting



AirRob

Robotic Bin-To-Person System

DENSITY | EFFICIENCY | ECO-FRIENDLY | FLEXIBILITY



Market value

AirRob is an attractive option for both green and brownfield automation in diverse industries such as warehouse logistics, e-commerce, or manufacturing. The market potential is high due to the high flexibility of the system, the comparably low costs, the wide range of applications.

Innovation

AirRob stands out for its simplicity of design, which enables high efficiency and robustness at low cost. The vertical guide is flexibly mounted on two horizontal rails on the rack, so that even inclined racks can be approached with the appropriate inclination. A simple hook mechanism allows access to various standard bins from two parallel racks, a fast-charging mechanism ensures 24/7 operation.

Customer benefit

AirRob is flexibility and adaptability for use in existing warehouses without replacing existing infrastructure. AirRob's investment costs are manageable, compared with other fully automated systems, set-up and commissioning are in the range of 1 to 4 weeks. Due to the modularity, additional robots can be temporarily integrated for more throughput at peak times. AirRob needs less energy consumption, the system is easily move and reuse in other operating environments.

Functionality

AirRob is designed to be simple and practical, enabling a rapid access time of about 30 seconds to the bins weighing up to 25 kilograms. The throughput of bins can be scaled flexibly by dividing the tasks between AirRob on the rack and the floorbots. With a temperature range between -20 °C and 50 °C, freezer applications are also possible.

AirRob system consists of 5 parts





AirRob is a robotic bin-to-person system, sets a new standard for mobile robots and fundamentally change existing solutions. AirRob is cost-effective, scalable, efficient. The system saves space and labour. It guarantees high storage density and high operation speed for storage, transportation and picking all in one system.

The system is suitable for the vast majority of all totes and virtually all racks. It allows a quick and easy installation, even when retrofitting existing warehouses. Adjustments to the floor are not required. Horizontal rails are attached to the rack, over which AirRob travels along the rack. AirRob is suitable for all industries where bin could be used.

AirRob won the IFOY AWARD for Best in Intralogistics in 2023

What AirRob Provides



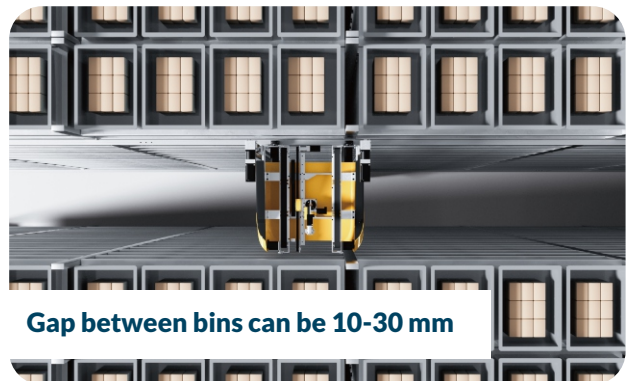
Aisle width needs only 850 mm



One AirRob can achieve 120 single cycles per hour



Power of one unit is only 150 watts



Gap between bins can be 10-30 mm



WorkStation can handle 600 inbound and 600 outbound bins per hour



T-Sort System

Sorting solution for Shoes & Apparels

Fulfillment order sorting | Store replenishment | Reverse logistics

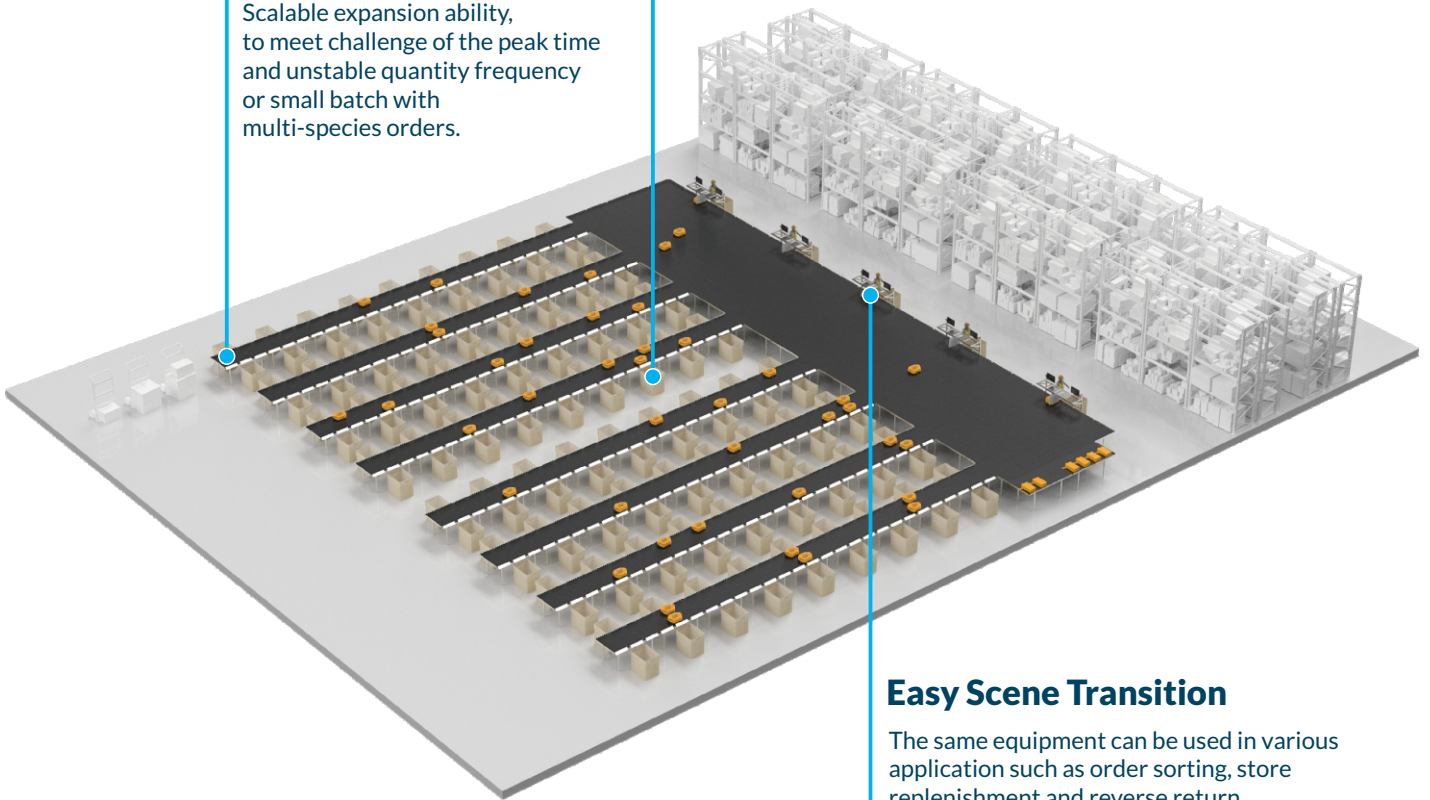


More flexible

Scalable expansion ability, to meet challenge of the peak time and unstable quantity frequency or small batch with multi-species orders.

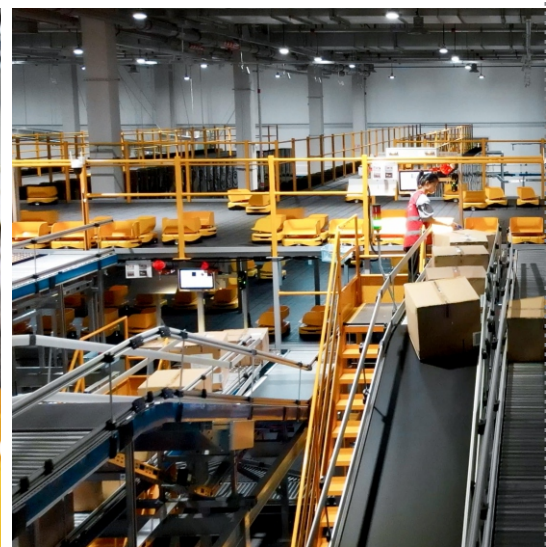
More chutes quantity

The adjustable number of chutes can set according to the application of the quantity, the SKUs and the orders.



Easy Scene Transition

The same equipment can be used in various application such as order sorting, store replenishment and reverse return.





Express Terminal Sorting Solutions

More flexible

- Modular design easy for simple expansion and reconfiguration

More efficiency

- Sort 1500-4000 parcels per hour 99.9% sorting accuracy

Rapid deployment

- Modular Design, install in one or two weeks

Low space occupation

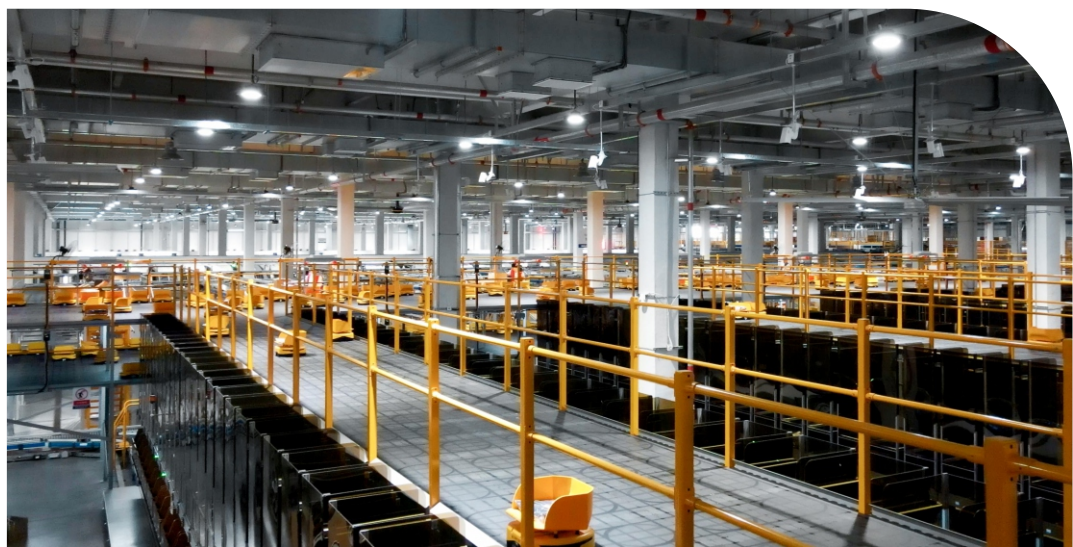
- Small footprint of the system, adapts various destination location

Labor saving

- Automatic sorting system
- Reduce about 60% labor

Low cost

- Low start-up cost
- High investment flexibility



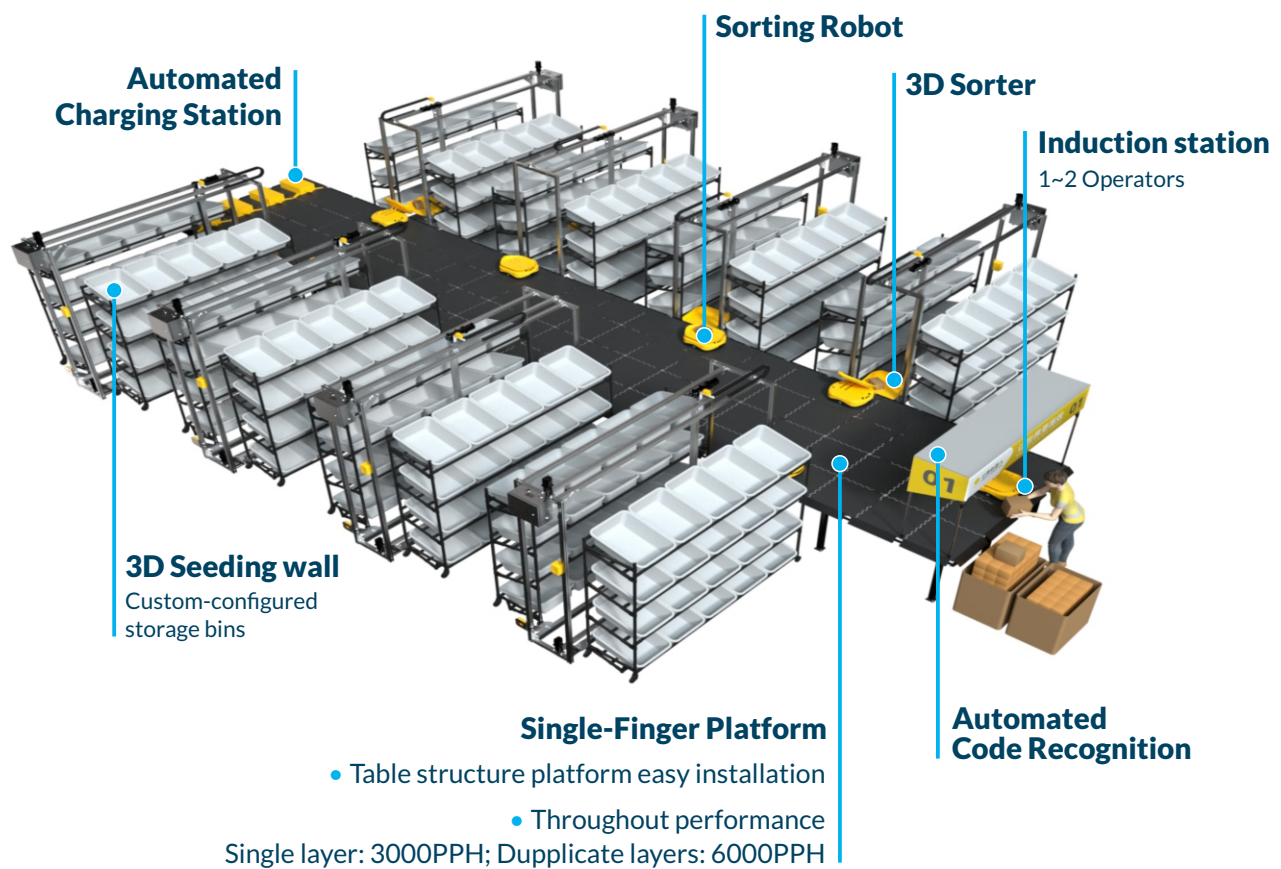
3D Sorting System

A New Era for E-commerce Fulfillment

Order Picking | E-Commerce Orders | Reverse Logistics



The structures of 3D Sorting System



The advantage of 3D Sorting System

More Flexible

- Ideal solution increase the sort destinations and volume
- Single robot breakdown will not affect the whole system due to the modular design

Rapid deployment

- In one or two weeks
- ROI ≤2years

Maximum number of chutes

- 10000 chutes available

Significant advantages of 3D sortation system

- 3D sortation system increases more than 5 times of efficiency compared with the traditional methods
- Reduce walking mileage and labor load

More Efficiency and Accuracy

- Sorting performance: 1300 PPH (Parcels/Per/Hour)
- 99.9% sorting accuracy

More Space Utility

- 1200 chutes cover 230m² area
- Reduce space cost and improve footprint utilization

PRODUCT MODELS

Flat Tray

Dimensions **482*413*200 (mm)**
Load **5kg**

High Tray

Dimensions **482*413*339 (mm)**
Load **5kg**

AirRob Floorbot

Dimensions **585*435*201 (mm)**
Load **25kg**

Inclined Tray

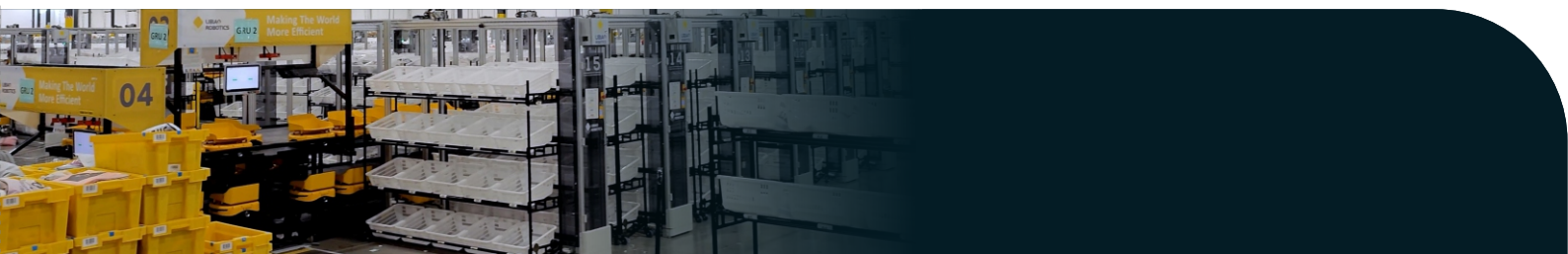
Dimensions **482*413*230 (mm)**
Load **15kg**

Belt Conveyor

Dimensions **481*413*212 (mm)**
Load **15kg**

T-Sort with Lift

Dimensions **482*413*176 (mm)**
Load **15kg**





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