



Sales: +86 0571-85857719 E-mail: sales@libiaorobot.com

www.libiaorobot.com

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AirRob

Robotic Bin-To-Person System

DENSITY | EFFICIENCY | FLEXIBILITY | ECO-FRIENDLY

About AirRob

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 totes from two parallel racks, a fast-charging mechanism ensures 24/7 operation.

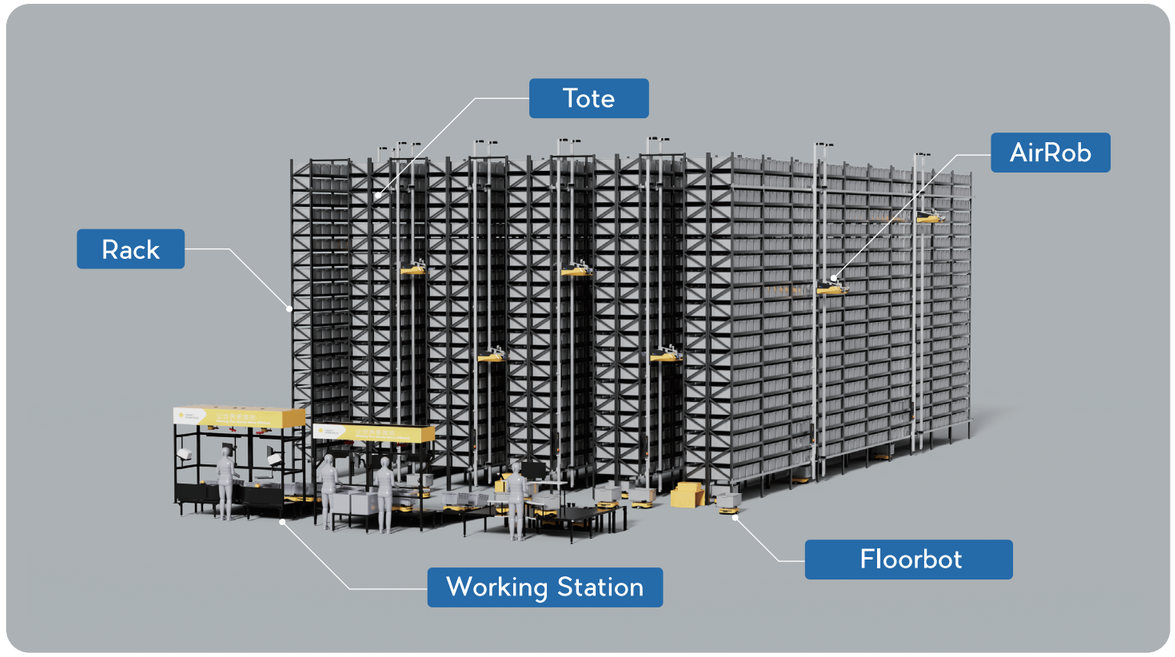
Customer benefit

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 totes weighing up to 25 kilograms. The throughput of totes 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



IFOY AWARD

BEST IN INTRALOGISTICS

LIBIAO ROBOTICS
Airrob

CERTIFIED INNOVATION
IFOY AUDIT | IFOY INNOVATION CHECK | IFOY TEST

AirRob is a robotic bin handling 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.

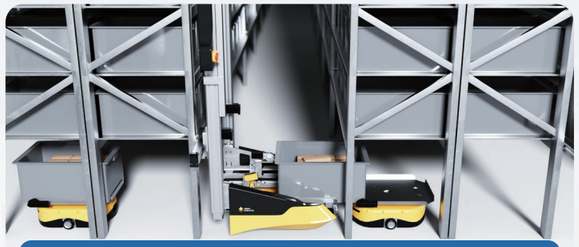
The system is suitable for the vast majority of all totes and virtually all racks. It allows a quick and easy installation, even when retrofitting existing warehouses. Adjustments to the floor are not required. Horizontal rails are be attached to the rack, over which AirRob travels along the rack. AirRob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

AirRob won the IFOY AWARD for Best in Intralogistics in 2023

What AirRob Provides



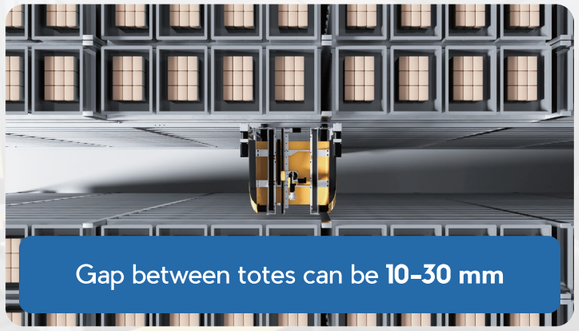
Aisle width needs only **850 mm**



One AirRob can achieve **120** single cycles per hour



Power of one unit is only **150** watts



Gap between totes can be **10-30 mm**



Working Station can handle **600** inbound and **600** outbound totes per hour