

ZIKO ROBOTICS



# U-BOT STORAGE SYSTEM

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Leader of Pallet-to-Person Robotics

It can be used for whole pallet in and out of the warehouse, also can be piece picked in and out of the warehouse, compared with other counterbalanced weight stacking AGV, comprehensive efficiency increase of 30%, extremely narrow aisle travelling, easy deployment, fast delivery, is the best choice for customers who want to improve the storage density of the traditional manual forklift warehouse renovation.



**U-bot**

Omnidirectional Stacker Robot

+



**PTP**

Smart Warehouse Software

+



**Workstation**

+



**Pallet racks**

## U-bot Omnidirectional Stacker Robot

The U-bot Omnidirectional Stacker Robot is a smart storage robot independently developed by Zikoo Smart. This “pallet-to-person” storage and picking system offers a multitude of benefits including the ability to maneuver around narrow aisles, precise positioning, flexible deployment, and adaptable functionality.

	U4500	U6000	U8000
Dimensions	2198*1784*2100mm	2198*1820*2685mm	2198*1820*3465mm
Rated load	1000kg	1000kg	1000kg
Weight	3000kg	3300kg	3500kg
Lifting height	4500mm	6000mm	8000mm
Forward distance	1110mm	1110mm	1110mm
Applicable pallet sizes	1000-1200*800-1200mm	1000-1200*800-1200mm	1000-1200*800-1200mm
Maximum speed	1.5m/s	1.5m/s	1.5m/s
Minimum turning radius	1370mm	1370mm	1380mm
Minimum aisle width	2100mm	2140mm	2140mm
Navigation	Dual-laser and SLAM hybrid navigation	Dual-laser and SLAM hybrid navigation	Dual-laser and SLAM hybrid navigation
Operational positioning accuracy	±10mm	±10mm	±10mm
Ascending speed	0.25m/s	0.25m/s	0.25m/s
Descending speed	0.2m/s	0.2m/s	0.2m/s
Maximum forward speed	0.3m/s	0.2m/s	0.2m/s
Battery	48V/210Ah lithium-iron phosphate battery	48V/210Ah lithium-iron phosphate battery	48V/210Ah lithium-iron phosphate battery
Duration time	6~8h	6~8h	6~8h
Charging time	2~3h	2~3h	2~3h
Applicable temperature	-10~45°C	-10~45°C	-10~45°C

# The Advantages of U-Bot Storage System

U-bot storage system adopts U-bot Omnidirectional Stacker Robot with selective rack, which can be used for whole pallet in/out storage, and can also be used with picking workstations to carry out piece picking in/out storage. U-bot's extremely narrow travelling aisle of 2.1m dramatically increasing the utilization rate of lateral space, and its lifting height of 0-8m greatly improves the utilization rate of longitudinal space. At the same time, combined with PTP Smart Warehouse Software, it can realize storage heat level management, intelligent stock management at spare time, and greatly improve the efficiency and flow of in/out storage, which is a kind of storage and picking solution with high manpower efficiency and fast ROI.



## Ultra High Storage Density

Extremely narrow travelling aisle of 2.1m, dramatically increasing the utilization of lateral space

Lifting height 0-8m, dramatically increasing the utilization of longitudinal space

Multi-containers can be mixed in multiple floors, fully releasing the floor space.



## Ultra-high Operating Efficiency

No-unpacking put-away to suit more customer needs

Faster travelling speeds, faster fork extension speeds

Smaller turning radius, higher turning efficiency



## Ultra-High ROI

1-2 year ROI

Easy Deployment, Fast Delivery

Traditional manual forklift warehouse conversion, no need to replace racks



## Flexible Deployment

Flexibility to increase or decrease the number of robots according to order requirements

Global planning, step-by-step implementation, upgrading without stopping production

Supports multiple navigation methods, adapting to changes in the environment



## Scenarios

≤10m

N.H. of warehouse

Relatively more

No. of SKUs

Relatively High

Storage Density

Relatively High

In/Out Storage Efficiency

Relatively High

Picking efficiency

## Industries



Retail



Manufacturing



Cold Chain



Energy



3PL



E-commerce



200 m<sup>2</sup>  
Area



120  
Storage position

x2.5  
Storage capacity

60% ↑  
Warehouse operational efficiency

## Power industry U-bot Storage System Warehouse case

### Intelligent Solutions

- Adopting U-bot omnidirectional stacking robot with rated load of 1T and lifting height of 4.5m.
- U-bot is linked with the existing stacker cranes in the warehouse to take out the whole palletized goods from the conveyor line of the warehouse and carry them to the crossbeam rack storage area, which effectively realizes stock preparation in advance and booking of stocking out.
- U-bot's "pallet-to-person" rapid picking realizes digital and unmanned management in the warehouse area.

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