

U-bot

Omnidirectional Stacker Robot

Leader of Pallet-to-Person Robotics

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.

Technological Innovation

- **Omnidirectional Maneuvers**
  A new "dual steering wheel" chassis is used for enhanced driving stability
- **Accurate Positioning**
  Dual-laser SLAM navigation for accurate positioning
- **Automatic Correction**
  A 3D camera is used to ensure the smart recognition of a pallet's position
- **Ultimate Lifting Capabilities**
  Optional gantry, with a lifting height being 0m-8m and free from loss of load within 6m
- **Forward Mechanism**
  The forward movement speed of the gantry has increased by 100%
- **Flexible Intelligence**
  Cluster scheduling, path planning, task scheduling, hot location storage



Product Values

New Design
The innovative U-shaped design offers enhanced safety and efficiency

New Density
leads to an increase in storage density by 30%-500%

New Efficiency
Fast driving and accelerated picking improve the operation efficiency by 2-3 times

New Smart Technologies
Applicable to a diverse range of complex scenarios and boasting enhanced storage and picking capabilities



U-bot Product Specifications

	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

U-BOT STORAGE SYSTEM



U-BOT + R-BOT Dense storage picking system



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