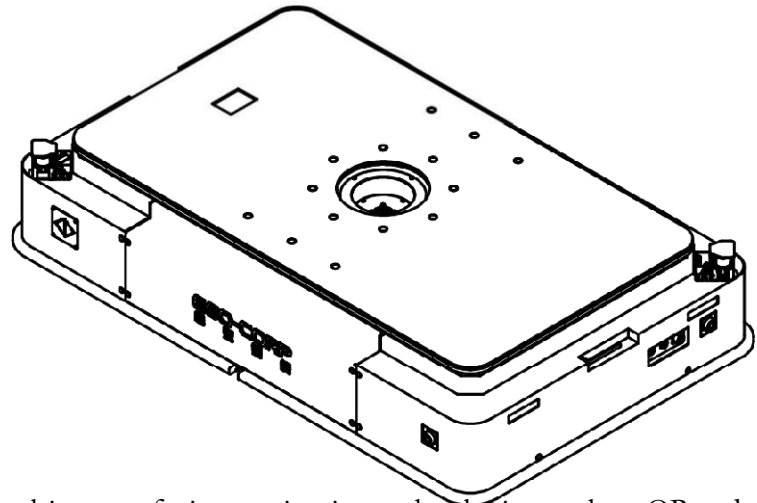


Camel-2000 重载举升机器人



Functional Features:

- **Positioning & Navigation:** Utilizes multi-sensor fusion navigation technologies, such as QR code navigation and Laser SLAM, to achieve high-precision positioning;
- **Motion Control:** Features omnidirectional drive, supporting multiple motion modes including forward, backward, lateral movement, and rotation
- **Power Management:** Supports multi-level battery threshold control; users can freely set the minimum charging threshold. It also supports idle-time charging control;
- **Safety Protection:** Equipped with 360° LiDAR-based obstacle avoidance, contact-based safety edge collision detection, emergency stop buttons, and other redundant safety measures
- **Human-Machine Interaction:** Features a touch screen and audiovisual alarms to indicate the real-time operating status of the equipment;
- **Control Modes:** Supports automatic, manual and remote control modes;
- **Material Handling:** Supports lifting and transport operations for goods with a rated load of 2000kg; provides customized load attachments to adapt to various application scenarios;
- **Network Communication:** Supports Wi-Fi communication with seamless roaming, as well as 5G network expansion

Target Industries:

E-commerce, 3C Electronics, Tobacco, Pharmaceuticals, and more. It also serves as an expandable platform with customizable attachments to meet the needs of diverse application scenarios.

QR Code Spacing:

Standard reference spacing is 1000 x 1000 mm; supports non-uniform (irregular) QR code layout patterns.

Technical Specifications

Model		Camel-2000	
Basic Specifications	Dimensions: L*W*H	1900*1200*400	mm
	Minimum Rotation Diameter	2166	mm
	Self-weight	680	Kg
	Rated Payload	2000	Kg
	Ground Clearance	40	mm
	Lifting Platform Dimensions	1640*940	mm
	Human-Machine Interaction Methods	Touch Screen (7in)	/
	Lifting Drive	Electric Lifting	/
	Lifting Height	100	mm
Motion Performance	Rated Speed (Unloaded)	1.2	m/s
	Rated Speed (Full Load)	1.0	m/s
	Acceleration (Unloaded)	0.6	m/s ²
	Acceleration (Full Load)	0.3	m/s ²
	Drive Type	Dual Steer-Drive Wheels	/
Positioning & Navigation	Navigation Method	Laser SLAM or QR Code	/
	Stopping Accuracy	± 10	mm
	Stop Angle Accuracy	± 1	°
Battery	Battery Type	Lithium Iron Phosphate	/
	Capacity / Rated Voltage	67/48	Ah/V
	Cycle Count	1500 cycles (100% DOD)	
	Battery Runtime (Rated Conditions)	8	h
	Charging Time	≤ 2	h
Safety & Protection	LiDAR	Qty	2 (diagonally mounted) /
		Mounting Height	325 mm
		Coverage Range	360 °
	3D Visual Obstacle Avoidance		Optional /
	Emergency Stop Button		Qty: 4 /

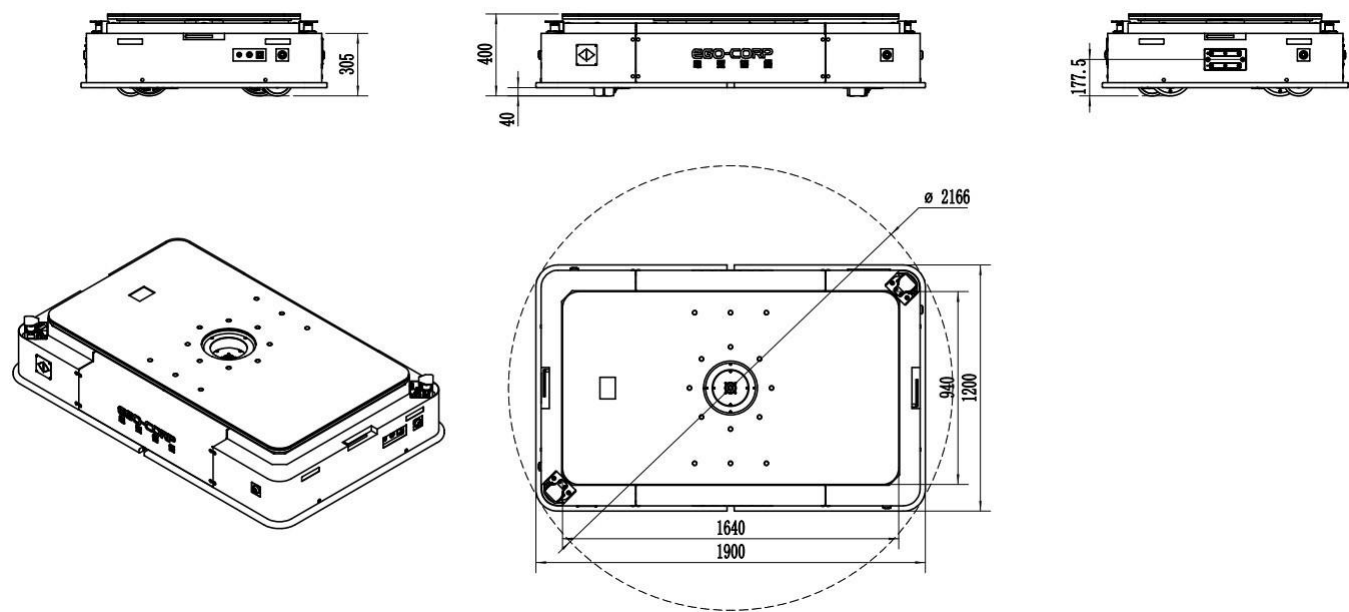
Trafficability	Contact-based Protection	Piezoelectric Safety Edge	/
	Audio-Visual Alarm	Classic	/
	Chassis Suspension System	Floating Bar	/
	Gradeability	$\leq 5\%/3^\circ$	$\%/^\circ$
	Step-climbing Ability	≤ 10	mm
	Gap-crossing Ability	≤ 30	mm

- ✧ The positioning accuracy specified above is obtained under ideal conditions;
- ✧ Actual accuracy is subject to site environment, rack/carrier dimensions, docking conditions, and other factors; please refer to the actual performance achieved on-site

Operating Environment Requirements

Environment	Indoor Environment
Floor Conditions	Optimal floor materials for AGV operation are hard concrete or conductive plastic (ESD) flooring
	The AGV operating surface must be kept free of iron filings, oil stains, and corrosive liquids
	Avoid seams in the driving path; maximum gaps should not exceed 10 mm
	Floor slope should not exceed 3° ; at docking positions requiring high-precision positioning, the slope must not exceed 1° ;
	To meet the requirements for safe braking distance and positioning accuracy, the floor's sliding friction coefficient must be at least 0.5;
Temperature	Working Environment Temperature: - Operating Temperature Range: -10°C to 40°C -Charging Temperature Range: 0°C to 40°C -Customization is required for cold storage environments
Ambient Humidity	Relative Humidity: 10%-90% (Non-condensing)
Signal	Dual-band WiFi (2.4GHz/5GHz) Wireless signal coverage strength $> -70\text{ dBm}$

Outline Dimensions Drawing



Optional Components

Components	Series	Description
Charging Station	Eh-4850-S1-178.5-0	
Manual Charger	Eh-4810-C1-S	
Maintenance Tools	WDT-V1.0	