



Autonomous Mobile Robot - W500QR

INS + QR Code Navigation + Load 500Kg

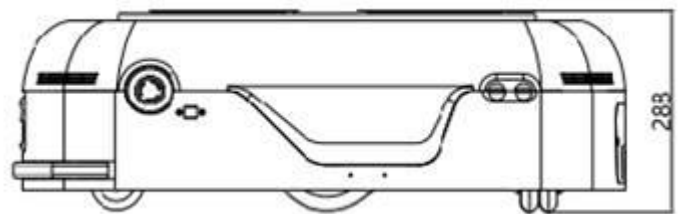
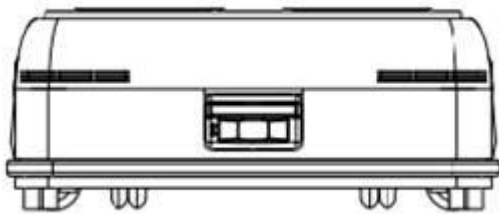
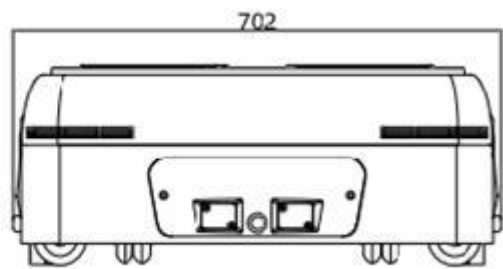
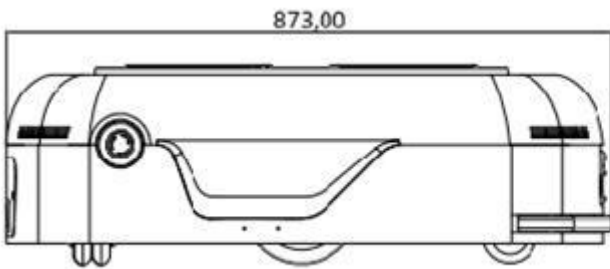
Product feature

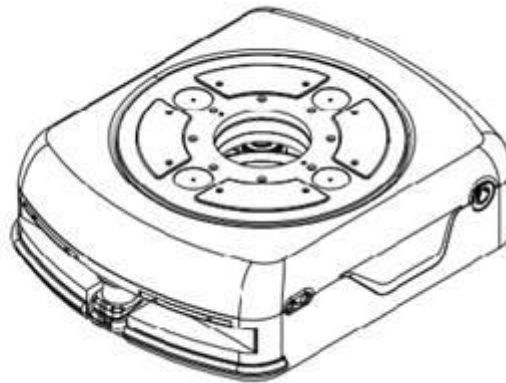
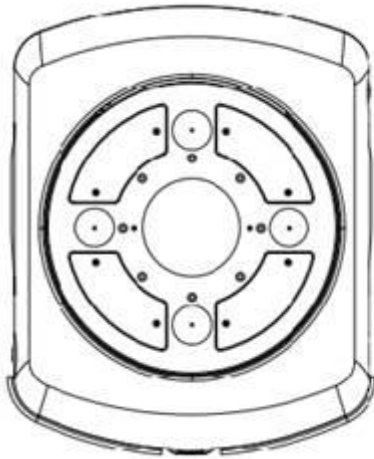
1. Using QR code navigation, laying two-dimensional code on the ground, combining with the inertial navigation system for positioning and correction, can reach accurate positioning of ± 10 mm..
2. The load weight can reach 500kg, and most of the goods can be transported by jacking, rotating.
3. The equipment adopts the modular design of the whole machine, which makes the assembly and maintenance more convenient.
4. The battery can last for ≥ 8 hours with full load, and the robot can automatically charge with low power (set the low power value according to the customer's requirements).



5. Cluster scheduling, in the robot control system, can view the working status, battery energy, location and other information of all robots at the same time, and schedule all devices through the system.
6. Equipped with lidar safety barrier avoidance, front contact anti-collision bar, left and right emergency stop buttons, multiple safety protection to protect equipment and cargo safety.
7. Path planning in system, realize unmanned operation, staff only need to give instructions through the control terminal.

Dimension





Specification

Parameters	model	W500QR
	dead weight	180KG
	Load weight	500KG
	length, width and height	860*680*295mm(exclude anti-crash strip)
	Jacking height	60mm
	Navigation mode	INS + QR code
Performance	Driving mode	Servo motor, two wheel differential drive
	positioning accuracy	±10mm
	Maximum speed (no load)	1.7m/s
	Operating speed (full load)	1.0m/s
	Charging mode	Automatic charging / offline charging optional
	Endurance time	≥8H
Battery	Battery type	Lithium battery 48V
	Battery capacity	40AH/30AH
	Charging time	1.5h~2h
	Battery life	1500 cycles, capacity ≥ 80%
Safty	Obstacle avoidance	Lidar obstacle avoidance
	Audible and visual alarm	support



[Blue Box]	Emergency stop switch	Support, one front and one rear
	Communication mode	WiFi
	Debug interface	Open interface

Application Case

The scheme is as follows:

1. Install customized pallet support
2. Set up loading and unloading platform or pillar in the incoming wharf or unloading warehouse
3. AGV lurks to the bottom of the support to complete the lifting pallet





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