

Flexible Lifting Robot

# L300

## LIFTING SERIES

- ◆ 300KG Payload
- ◆ Lift and Rotate Top Module
- ◆ 8 Hours Runtime
- ◆ Flexible Deployment and Cluster Dispatching
- ◆ Intelligent Traffic Arrangement
- ◆ LiDAR, QR Code Carrier Docking Camera



# PRODUCT INTRODUCTION

∞ Robotics for a More Automated world

## ▶ ABOUT L300

L300 is agile, perfect option for warehouses or manufacturing facilities with narrow passageway. Carrying a maximum payload of 300 kg, the AMR is equipped with a top module that elevates at a maximum height of 60mm and rotates in 360 degrees.

The YOUIFLEET dispatching system allows a fleet collaboration of up to 1,000 AMRs under same operation area, enabling a real 'light-out' operation.



L300 is equipped with LiDAR with 240° coverage to support multiple levels of operational safety. They are the pillars to ensure a safe and reliable autonomous operation in 24/7.



With the connection between the battery BMS, L300 operating system and scheduling system, L300 can realize automatic navigation to the charging point for automatic charging under the set low battery condition.



Installed with top carrier base QR code docking camera, the carrier would be lifted from the gravity center. Follow the carrier base design with pin-slot block and QR code docking. L300 could lift various of carrier types such trolley, shelf, cabinet etc.

Category	Item	Parameter
Main Body	Dimensions	800*619*330 mm
	Weight	180KG
	Maxi. payload	300KG
	Navigation mode	Laser SLAM/Laser&QR code Fusion
Navigation	Navigation accuracy	Laser SLAM Position accuracy: ±10 mm; Angle accuracy: ±1°
		Laser&QR code Fusion Position accuracy: ±5 mm; Angle accuracy: ±1°
	Turning diameter	940mm
Mobility Performance	Max. speed	1.5 m/s No-loaded; 1.0 m/s Full-loaded
	Rated speed	1.2 m/s No-loaded; 0.8 m/s Full-loaded
	Lift parameter	360° rotation & lifting; Max. Elevation: 60mm
	Drive model	Two-wheel differential drive
Power & Battery	Cell material	Lithium iron phosphate
	Battery capacity	48V 30Ah
	Battery life	Cycles ≥ 2,000; DoD ≥ 80%
	Battery runtime	≥8H
Safety Design	LiDAR design	Front and middle
	Emergency stop buttons	2× buttons located on the both sides of robot
	Anti-collision strip	360° full protection
	Status indicator	Status light

