

# AMB-300JZ

## Laser SLAM Latent Jacking Transfer Robot

# AMB-300JZ

Small, Flexible and Latent Lifting/Jacking



### More Powerful Algorithms

Shelf identification and correction, high dynamic environment position and navigation, slip detection and correction, QR code secondary precise positioning, hybrid navigation, automatic following, and using fifth-order Bézier curve.



Application Scenario



### Powerful Material Shelf Identification

A variety of goods racks can be identified and it can move under the racks and jack the goods. It can also identify material racks in various industries.



### Smaller and More Flexible

The smaller size allows for a lower chassis height with the integrated climbing mechanism, lower environmental requirements, more coverage scenarios, and less site restrictions.



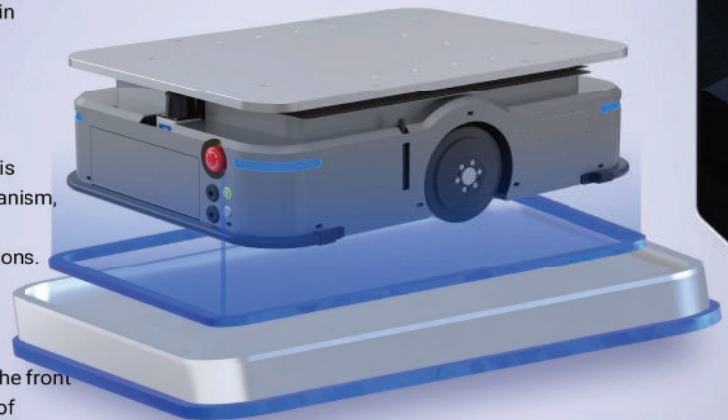
### More Secure and Efficient

Dual lasers and bumper strip sensors at the front and back for 360° protection; 10 minutes of charging for 1 hour of running.



### New Industrial Design

With SEER's new design PI language, present customers with a powerful and high-tech product of metal texture.



## Parameter Specification

● Standard ○ Optional - None

### Basic parameters

Navigation method	Laser SLAM
Drive mode	Two-wheel differential
Shell color	Cool Gray
L*W*H	792mm*580mm*250mm
Rotation diameter	910mm
Load capacity	300kg
Chassis ground clearance	25mm
Jacking platform dimensions	760mm*545mm
Maximum jacking height	60±2mm
Jacking time	5±0.5s
Laser scanning height	FREE 188mm/SICK 193mm
Network	Ethernet/Wi-Fi 802.11 a/b/g/n/ac
Ambient temperature and humidity range	TEMP: 0~50°C/RH: 10~90%, no condensation
IP rating	P20

### AMB-300JZ

### Configurations

Lidar number	2 (SICK nanoScan3 + FREE C2) or 2 (FREE H1+FREE C2)
Number of low-position obstacle avoidance photoelectric	0
Cargo detection	-
E-stop button	●
Speaker	●
Atmosphere light	●
Bumper strip	●

### Functions

Basic functions	●
Wi-Fi roaming	●
Automatic charging	●
Shelf recognition	●
Spin	-
Precise location with QR code	○
QR code navigation	○
Laser reflector navigation	○

### Performance parameters

Passability (slope/step/gap)	≤5%/5mm/30mm
Minimum passable width	540mm
Navigation position accuracy	±5mm
Navigation angle accuracy	±0.5°
Navigation speed	≤1.5m/s
Map area(single frame)	≤400000m <sup>2</sup>

### Battery parameters

Battery specifications	48V/20AH (Lithium Iron Phosphate)
Comprehensive battery life	8h
Automatic charging parameters	54.6V/15A
Charging time (10-80%)	≤1h
Charging method	Manual/Automatic
Battery cycle number	≥1500 times

## Dimension (mm)

