



# For latent jacking transfer robots Please refer to this series.

## AMB-J Series Latent Jacking Unmanned Chassis

- **Brand new industrial design**

Consistent succinct style of AMB series, with modular design for easy disassembly/assembly and maintenance

- **Smaller and more flexible**

After the jacking module is integrated, the length and width are smaller than those of AMB series, so that it can travel smoothly in a narrow channel, and its overall height is only 260mm for more adaptability to low shelf.

- **Safer with multiple protections**

It is fitted with lasers both on the head and tail so that it can run through the shelf more easily; it is fitted with proximity sensors both on the head and tail to reduce the blind spots; it is fitted with safety bumper for more comprehensive protection.

- **Faster and more efficient**

The battery supports fast charging and replacement to satisfy the 24h continuous work demands.

- **Intelligent algorithm to recognize the work scenario better**

Deviation correction for shelf recognition, positioning and navigation in high dynamic environment, deviation correction for sliding detection, precision secondary positioning, mixed navigation, automatic following and fifth-order Bézier path



「AMB-150J/300J/600J」



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Cost-effective industrial technology

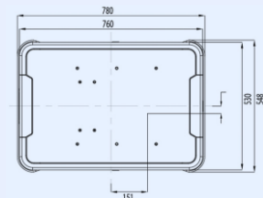
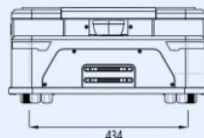
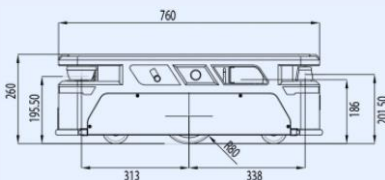
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## Parameter Specification

● Standard configuration	○ Optional configuration	- None	
Technical parameters	AMB-150J	AMB-300J	AMB-600J
Number of navigation laser	SICK nanoScan3 Core I/O	SICK nanoScan3 Core I/O	SICK nanoScan3 Core I/O
Number of obstacle avoidance laser	SICK TIM240	SICK TIM240	SICK TIM240
Drive method	Two-wheel differential	Two-wheel differential	Two-wheel differential
Length*Width*Height	780*550*260mm	800*600*260mm	900*650*260mm
Weight (including battery)	145kg	166kg	166kg
Shell color	Seer blue/customized color	Seer blue/customized color	Seer blue/customized color
Wired interface	●	●	●
Wireless interface	Wi-Fi 802.11 a/b/g/n/ac	Wi-Fi 802.11 a/b/g/n/ac	Wi-Fi 802.11 a/b/g/n/ac
Capacity	48V 27Ah ternary polymer lithium battery	48V 40Ah three-element lithium	48V 40Ah three-element lithium
Battery life	8h or 15km	8h or 15km	8h or 15km
Charging time	0-80%: 2h	0-80%: 2h	0-80%: 2h
Charging method	Manual/Automatic	Manual/Automatic	Manual/Automatic
Battery charge and discharge cycles	>500 cycles	>500 cycles	>500 cycles
Emergency stop button	●	●	●
Power indicator	●	●	●
Speaker	●	●	●
Mood light	●	●	●
Maximum load	150kg	300kg	600kg
Lifting/lowering time	6s±0.5s	6s±0.5s	6s±0.5s
Jacking travel	0-60mm (±1mm)	0-60mm (±1mm)	0-60mm (±1mm)
Passability 1	Slope <5%, step <0.5cm, gap <3cm	Slope <5%, step <0.5cm, gap <3cm	Slope <5%, step <0.5cm, gap <3cm
Localization accuracy 2	±5mm, ±0.5°	±5mm, ±0.5°	±5mm, ±0.5°
Navigation velocity	≤1.5m/s	≤1.5m/s	≤1.5m/s
Map area (single frame)	≤400000m <sup>2</sup>	≤400000m <sup>2</sup>	≤400000m <sup>2</sup>
Basic functions 3	●	●	●
WiFi roaming	●	●	●
Automatic charging 4	○	○	○
Shelf recognition	●	●	●
Laser reflector navigation	○	○	○
Ambient temperature and humidity range	0°C-50°C (humidity 10-90%, no compression condensation)	0°C-50°C (humidity 10-90%, no compression condensation)	0°C-50°C (humidity 10-90%, no compression condensation)
IP rating 5	IP21	IP21	IP21

1. The road surface should be smooth, clean and free of obvious ups and downs. Slope should not be more than 5% = arctan (0.05) ≈ 2.8°. The robot must not stop or turn at the ramps, steps, or gaps, but can pass quickly perpendicular to them.
2. Localization accuracy usually refers to the repeated accuracy of the robot navigating to the target site, and the expected value that the repeated accuracy of the robot navigating from a fixed direction to the target site can be reached in a relatively stable environment scanned by the robot sensor. When the robot runs along a virtual path, it will try to fit the path as closely as possible, but repeatability is not guaranteed. That is, the robot can guarantee the accuracy to the target site, but does not guarantee the fitting accuracy of the path. The minimum spacing between the sites supported by AMB-J is 1cm. Therefore, the robot should not be used as a linear guide.
3. Basic functions include map editing, model editing, localization module, navigation module, basic movement model (differential) and API interface etc.
4. Need to be used with a dedicated automatic charging pile produced by Seer.
5. AMB-J is designed for indoor transportation only and is not recommended for outdoor use.

Dimensions (mm) with AMB-150J as an example



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