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Laser SLAM Lifting Robot

SJV-CSL06-YF

600 kg Lifting and Handling, Ultimate Cost-effectiveness



600 kg Lifting Capacity with Slim-profile, 1 Hour Charging 80%

600 kg lifting capacity, covering various types of handling needs. With a height of just 255 mm, it offers superior adaptability to racks of varying heights. Fast charging to 80% in just 60 minutes, ensuring reliable 8-hour operations.



Dual Lasers, 360° Safety Protection

Equipped with advanced navigation laser at the front and obstacle avoidance laser at the rear, our robot ensures a safety operation experience like never before.



Versatile Rack Recognition

It can recognize various types of material racks in various industries and move under the racks and lift the goods.



3D Visual Obstacle Avoidance, 5 m Safety Protection

With the 3D obstacle avoidance camera, it can scan objects within a distance of 0.3 m to 5 m and achieve depth data measurement of objects within that range, improving safety.



3 Types of Navigation, More Accurate Positioning

Positioning accuracy can reach ± 5 mm. Supports multiple navigation, such as SLAM, QR code, laser reflector and 2D NFL. It adapts to various scenarios with the perfect navigation solution.



Unmatched Speed and Efficiency at 2 m/s

Maximum running speed of 1.5 m/s when fully loaded, and 2 m/s when unloaded, which meets the beat demand and operates more efficiently.

Parameter Specification

● Standard ○ Optional

Basic parameters

Product name	Laser SLAM Lifting Robot
Navigation type	Laser SLAM
L x W x H	950 x 650 x 255 mm
Rotation diameter	965 mm
Weight (with battery)	130 kg
Maximum load capacity	600 kg
Chassis ground clearance	25 mm
Lifting platform dimensions	850 x 600 mm
Maximum lifting height	60±2 mm
Navigation laser scanning height	195 mm
Ambient temperature and humidity range	TEMP: 0°C to 50°C / RH: 10% to 90%, no compression, no condensation

Performance parameters

Passability (slope / step / gap)	≤5% / 5 mm / 30 mm
Minimum aisle width	790 mm
Navigation position accuracy	±5 mm
Navigation angle accuracy	±0.5°
Driving speed	≤1.5 m/s

Battery parameters

Battery specifications	51.2 V / 20 Ah (lithium iron phosphate)
Comprehensive battery life	8 h
Charging time (10% to 80%)	≤1 h
Charging method	Manual / Automatic

Configurations

Lidar number	1 (H1)+1 (C2)
E-stop button	●
Speaker	●
Ambient lamp	●
Bumper Strip	●

Function configurations

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

Dimension (mm)

