

Load Type



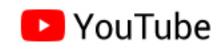








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SFL-CBD16-5

1.6-Ton Payload Capacity, Redefine Cost-effectiveness



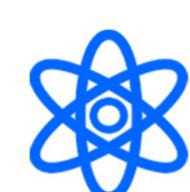
1.6 T Load Capacity with Slim-profile, **Enhanced Precision and Stability**

With a 1.6 tons load capacity and a compact vehicle width of just 880 mm, it offers a minimum turning radius of 1329 mm, making it perfect for narrow aisles. Featuring standard servo drive and steering, dual-spring shock absorbers on the drive wheels, and enhanced hydraulic cylinders, it delivers superior stability and precision, eliminating slipping concerns.



Al Deep Learning, Improved **Recognition Ability**

Based on AI deep learning, it boasts the capability to recognize pallets and racks in different colors and sizes with unparalleled precision and adaptability from multiple angles. Experience seamless and stable handling and transfer of goods.



Rich Options, Tailored to Your Needs

Choose from a variety of laser navigations, pallet recognition, and 3D obstacle avoidance features. Tailor the fork width between 550 to 680 mm, and the fork length between 950 to 1500 mm. Personalize it with your own logo integration.



3 Navigation Options, Accuracy up to ±10 mm

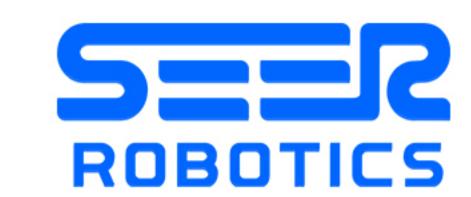
Harnessing the power of SLAM, reflector, and NFL navigation modes, offering a remarkable ±10 mm positioning accuracy, it effortlessly caters to diverse business navigation needs, including secondary positioning, high dynamic environments, and non-modified environments.



Multiple Sensors, 360° Safety Protection

Equipped with dual obstacle avoidance lasers, photoelectric sensors in fork tips, and bumper strips as standard features. Optional 360° comprehensive safety protection lasers ensure the safety of human-machine interaction scenarios.





Basic parameters

Product name Laser SLAM Autonomous Pallet Truck

Operation type Automatic navigation

Navigation typeLaser SLAMPallet typeOpen palletRated load capacity1600 kgLoad center distance600 mmWeight (with battery)405 kgStandard lifting height205±5 mm

Fork dimensions: L x W x H

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Fork outer width

Right-angle stacking aisle width,

1681 x 880 x 1896 mm

1220 x 173 x 60 mm

2200 mm

pallet 1000×1200

(1200 placed along the fork)

Right-angle stacking aisle width, 2150 mm

pallet 800×1200

(1200 placed along the fork)

Right-angle stacking aisle width, 2050 mm

pallet 1000×1000

(1000 placed along the fork)

Minimum turning radius 1329 mm

Ambient temperature andTEMP: 0℃ to 50℃ / RH: 10% to 90%,humidity rangeno compression, no condensation

Performance parameters

Driving speed: full load / no load 1.5 / 1.8 m/s

Passability (slope / step / gap) <5% / 10 mm / 30 mm

Navigation position accuracy ±10 mm

Navigation angle accuracy ±1°

Battery parameters

Battery specifications 51.2 V / 40 Ah (lithium iron phosphate)

Comprehensive battery life 8 h

Charging time (10% to 80%)

1 h (Automatic charging)

Charging method

Manual / Automatic

Function configurations

 Lidar number
 1 (H1) +2 (C2) or 1 (P+F R2000) +2 (C2)

 Wi-Fi roaming
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3D obstacle avoidance

Pallet recognition

HMI display

Safety configurations

E-stop button

Sound and light indicator

Braking distance: $1 \text{ m/s} / 1.5 \text{ m/s} \leq 30 \text{ cm} / \leq 50 \text{ cm}$

360° laser protection

Bumper strip

Dimension

(mm)

