

Load Type



Laser SLAM Autonomous Pallet Truck

SFL-CBD15-CE

Strongest Pallet Truck, Flexible and Efficient

Small Body, 1.5 T in Load Capacity

It is only 980 mm in width, designed for narrow aisles, with a load capacity of up to 1.5 T.

360° Large Field of View, Multiple Safety Protection

Support up to 360° scanning range, 30 m detection distance and large field. With a 2D safety obstacle detection laser, distance sensor, hardware self-check, and other features.

3+ Carriers Types, Wide Angle High Precision Recognition

Multi-angle and high-precision recognition of multi-size and multi-type pallets, shelves and cages, such as euro pallets, open pallets and non-standard pallets.

Speed Up to 2 m/s, Mapping Up to 400000 m²

Maximum driving speed of up to 2 m/s and the capability to recognize the map up to 400000 m². It effortlessly breaks area limitations, offering expansive transportation spaces and more storage options.

Quick Charge, Quick Swap; Double Battery, Double Endurance

Support up to 46 A rapid charging. 1 hour in charging and double the battery for an impressive 8 to 10-hour journey. Even beginners can swap the battery in 3 minutes. Modular battery with global certification.

CE Certification, Guaranteed Safety

With the CE safety certification, operate with enhanced reliability and improved safety.

Parameter Specification

● Standard ○ Optional

Basic parameters

Product name	Laser SLAM Autonomous Pallet Truck
Operation type	Automatic navigation, by manual control device
Navigation type	Laser SLAM
Pallet type	Open pallet
Rated load capacity	1500 kg
Load center distance	600 mm
Weight (with battery)	403 kg
Standard lifting height	205 mm
Forklift dimensions: L x W x H	1685 × 980 x 1906 mm
Fork dimensions: L x W x H	1220 x (170+7) x 75 mm (7 mm wiring panel)
Fork outer width	550 / 600 / 680 mm
Right-angle stacking aisle width, pallet 1000×1200 (1200 placed along the fork)	2260+200 mm
Right-angle stacking aisle width, pallet 800×1200 (1200 placed along the fork)	2220+200 mm
Right-angle stacking aisle width, pallet 1000×1000 (1000 placed along the fork)	2230+200 mm
Minimum turning radius	1532 mm
Ambient temperature and humidity range	TEMP: 0℃ to 50℃ / RH: 10% to 90%, no compression, no condensation

Performance parameters

Driving speed: full load / no load	1.4/ 1.4 m/s
Passability (slope / step / gap)	< 5% / 10 mm / 30 mm
Navigation position accuracy	±10 mm
Navigation angle accuracy	±1°

Battery parameters

Battery specifications	48 V / 46 Ah (lithium iron phosphate)
Comprehensive battery life	8 to 10 h
Charging time (10% to 80%)	1 h
Charging method	Manual / Automatic

Function configurations

Lidar number	1(P+F OMD30M-R2000-B23-V1V1D-HD-1L) +2 (SICK nanoScan3 Core)
Wi-Fi roaming	●
3D obstacle avoidance	●
Pallet recognition	●

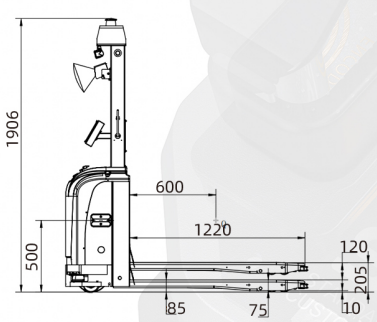
Safety configurations

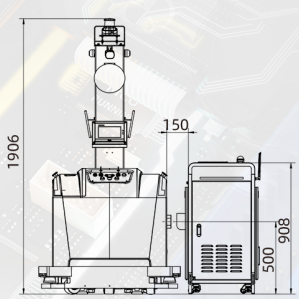
E-stop button	●
Sound and light indicator	●
Braking distance: 1 m/s / 1.5 m/s	1m / 2m
Fork height protection	●

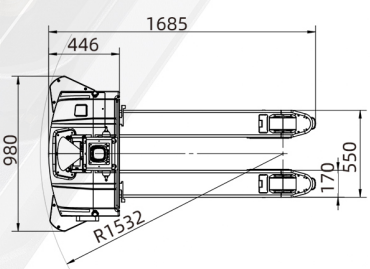
Certifications

ISO 3691-4	●
EMC / ESD	●
UN38.3	●
RED	●

Dimension (mm)







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