



Laser SLAM Stacker Autonomous Forklift

SFL-CDD16

Comprehensive Upgrade, Flexible and Efficient



SLAM Navigation, Precise and Convenient

SLAM navigation with an accuracy of ± 10 mm, without reflectors and easily deployed.



2 m/s Running Speed, Faster and More Efficient

The maximum running speed is 2 m/s in both no-load and full-load cases.



3 m Lifting with Stable Load Capacity (1.6 T)

The load capacity will not decrease and remains at 1.6 T when lifting to 3 m.



New Industrial Design

Family-based industrial design and multi-module quality assurance (operation panel, sensor bracket, wiring harness, etc.) for easier disassembly, assembly, and maintenance.



Pallet Recognition, Precise and Efficient

High-precision identification and precise pallets forking to guaranteed handling speed. Identification of international standard pallets, European standard pallets, and non-standard pallets.



Diversified Choices and Safe Navigation

360° obstacle detection laser scanning, with 3D cameras, bumper strip, distance sensor, and other sensors.

Parameter Specification

● Standard ○ Optional



Basic parameters

Product name	Laser SLAM Stacker Autonomous Forklift
Operation type	Automatic navigation, by manual control device
Navigation type	Laser SLAM
Pallet type	Open pallet
Rated load capacity	1600 kg
Load center distance	600 mm
Weight (with battery)	1090 kg
Standard lifting height	3000 mm
Forklift dimensions: L x W x H	1925 x 1000 x 2040 mm
Fork dimensions: L x W x H	1220 x 185 x 55 mm
Fork outer width	550 / 600 / 685 mm
Right-angle stacking aisle width, pallet 1000x1200 (1200 placed along the fork)	2250+200 mm
Right-angle stacking aisle width, pallet 800x1200 (1200 placed along the fork)	2230+200 mm
Right-angle stacking aisle width, pallet 1000x1000 (1000 placed along the fork)	2160+200 mm
Minimum turning radius	1340+200 mm
Ambient temperature and humidity range	TEMP: 0°C to 50°C / RH: 10% to 90%, no compression, no condensation

Performance parameters

Driving speed: full load / no load	2 / 2 m/s
Passability (slope / step / gap)	< 5% / 5 mm / 15 mm
Navigation position accuracy	±10 mm
Navigation angle accuracy	±0.5°

Battery parameters

Battery specifications	24 V / 173 Ah (lithium iron phosphate)
Comprehensive battery life	8 to 10 h
Charging time (10% to 80%)	2 h
Charging method	Manual / Automatic

Function configurations

Lidar number	1 (H1) +3 (C2)
Wi-Fi roaming	●
3D obstacle avoidance	○
Pallet recognition	○
Cage stack	○
High shelf pallet recognition	○
Pallet stack	○
HMI display	●

Safety configurations

E-stop button	●
Sound and light indicator	●
Braking distance: 1 m/s / 1.5 m/s	≤30 cm / ≤50 cm
360° laser protection	●
Bumper strip	●
Fork height protection	●

Certifications

EMC	●
UN38.3	●

Dimension (mm)

