SRC
INSIDE

META

Load Type

Laser SLAM Small Stacker Autonomous Forklift

SFL-CDD14

Narrow Aisles Exclusive, Versatile and Universal

Built-in SRC Controller

Software can be seam-lessly accessed for flexible collaboration of mul-tiple models.

Real Laser SLAM

Easy deployment without reflectors.

More Intelligent and Accurate Visual Supports

3D vision for obstacle detection, and pallet vision recognition.

All Round Protection Makes It Really Safe

Multi-dimensional sensors ensure all-round protection.

The Slender Design Allows It to Move Easily Through Narrow Aisles

The work can also be completed with extra small radius of gyration even in narrow aisles.

Parameter Specification

● Standard   ○ Optional

Basic parameters

Product name	Laser SLAM Small Stacker Autonomous Forklift
Operation type	Automatic navigation, by manual control device
Navigation type	Laser SLAM
Pallet type	Open pallet
Rated load capacity	1400 kg
Load center distance	600 mm
Weight (with battery)	680 / 740 kg
Standard lifting height	1600 / 3000 mm
Forklift dimensions: L x W x H	FREE / P+F: 1710 x 989 x 1998 / 1710 x 989 x 2247 mm
Fork dimensions: L x W x H	1220 x 180 x 70 mm
Fork outer width	570 / 680 mm
Right-angle stacking aisle width, pallet 1000×1200 (1200 placed along the fork)	1951+200 mm
Right-angle stacking aisle width, pallet 800×1200 (1200 placed along the fork)	1885+200 mm
Right-angle stacking aisle width, pallet 1000×1000 (1000 placed along the fork)	1822+200 mm
Minimum turning radius	1227+200 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	1.2 / 1.5 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 / 210 Ah (lithium iron phosphate)
Comprehensive battery life	10 h
Charging time (10% to 80%)	2 h
Charging method	Manual / Automatic

Function configurations

Lidar number	1 (FREE H1 / P+F R2000-25M) +3 (FREE 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) 3-meter lifting height for example