

SFL-CDD14 FORKLIFT AMR

LASER SLAM SMALL STACKER SMART FORKLIFT

PRODUCT ADVANTAGES

Built-in SRC controller: The system software can be seamlessly accessed for flexible collaboration of multiple models.

Real laser SLAM: Easy deployment without reflectors.

More intelligent and accurate visual support: 3D vision for obstacle avoidance, and pallet vision recognition.

All-around 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 - None

Technical parameters

SFL-CDD14

Tray type	3-stringer pallet
Rated load capacity	1400kg
Load centre distance	600mm
Wheelbase	877mm
Dead weight (with battery)	680kg
Navigation position accuracy	±10mm
Navigation angle accuracy	±0.5°
Fork in-position accuracy	±10mm
Standard lifting height	1600/3000mm
Gantry height	2130/3545mm
Fork surface ground clearance (at the lowest position)	85±5mm
Navigation laser scanning height	P+F: 2047/2206mm, SICK: 2016/2174mm
Vehicle size: length * width * height	1640*989*2060/2226mm
Fork size: length * width * height	1150*180*55mm
Fork outer width	570/680mm
Right-angle stacking channel width, pallet 1000x1200 (1200 placed across forks)	1887+200mm
Right-angle stacking channel width, pallet 800x1200 (1200 placed along the fork)	1830+200mm
Map area (Single)	≤ 400000m ²
Minimum turning radius	1182+200mm

Performance parameters

Driving speed: full load/no load	1.38/1.67 m/s
Lifting speed: full load/no load	115/170 mm/s
Lowering speed: full load/no load	160/125 mm/s
Passability (slope/step/gap)	< 5%/20mm/30mm

Wheel parameters

Tire type: driving wheel/supporting wheel	Polyurethane/Polyurethane
Tire size: driving wheel	230x75mm
Tire size: bearing wheel	80x54mm
Tire size: Balance wheel	115x55mm
Wheel number: driving wheel (x= driving wheel)/ bearing wheel	(1X+2) /4
Wheel base: bearing side	390/500mm
Wheel base: driving side	538mm

Battery parameters

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Battery specifications	24/180 (Lithium Iron Phosphate)
Battery weight	58kg
Comprehensive battery life	10h
Charging parameters	24V/100A
Charging time (10%-80%)	2h
Charging method	Manual/Automatic
Battery cycle number	> 2000
EMC / ESD	●
UN38.3	●

Function configurations

Lidar number	1 (P+F R2000; SICK nanoScan3 Core) +3 (OLEI LR-1B52H)
Wi-Fi roaming function	●
3D obstacle avoidance	○
Remote emergency stop	○
Pallet recognition	○
Cage stack	○
High shelf pallet recognition	○
Pallet damage detection	○
Pallet stacking and unstacking	○
Fork tooth distance sensor	●

Safety configurations

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

Others

Network	4G / 5G / Wi-Fi 802.11 a/b/g/n/ac
Ground flatness	±5mm/m ²
Ambient temperature and humidity range	TEMP: 0-50 / RH: 10-90 no compression, no condensation

Dimensions (mm) with AMB-150J as an example

