

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.

<u>Real laser SLAM</u>: Easy deployment without reflectors.

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

<u>All-around protection makes it really safe</u>: 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

SFL-CDD14 **Technical parameters**

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	85±5mm	
(at the lowest position)		
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,	1887+200mm	
pallet 1000×1200 (1200 placed across forks)		
Right-angle stacking channel width,	1830+200mm	
pallet 800×1200 (1200 placed along the fork)		
Map area (Single)	≤ 400000m ²	
Minimum turning radius	1182+200mm	

Performance parameters

Driving speed: full load/no load	
Lifting speed: full load/no load	
Lowering speed: full load/no load	
Passability (slope/step/gap)	

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	
(×= driving wheel)/ bearing wheel	(1X+2) /4
Wheel base: bearing side	390/500mm
Wheel base: driving side	538mm

1.38/1.67 m/s 115/170 mm/s

160/125 mm/s

< 5%/20mm/30mm

Battery parame

eters	SFL-CDD14

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-1BS2H)
Wi-Fi roaming function	•
3D obstacle avoidance	0
Remote emergency stop	0
Pallet recognition	0
Cage stack	0
High shelf pallet recognition	0
Pallet damage detection	0
Pallet stacking and unstacking	0
Fork tooth distance sensor	•

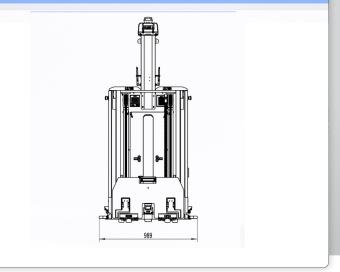
Safety configurations

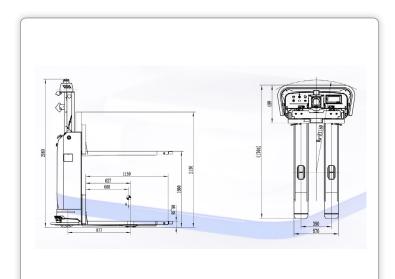
E-stop button	•
Sound and light indicator	•
Braking distance: 1m/s / 1.5m/s	≤30cm / ≤50cm
Vehicle hardware fault detection	•
360° laser protection	•
Bumper strip	•
Fork teeth height protection	•

Others

Network	4G / 5G / Wi-Fi 802.11 a/b/g/n/ac
Ground flatness	±5mm/m²
Ambient temperature	TEMP: 0-50 / RH: 10-90
and humidity range	no compression, no condensation

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





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