

Laser SLAM Small Stacker Smart Forklift SFL-CDD14

Narrow Aisles Exclusive, Versatile and Universal



Built-in SRC Controller

SEER system software can be seamlessly accessed for flexible collaboration of multiple models.



Real Laser SLAM

Easy deployment without reflectors.



3D

More Intelligent and Accurate Visual Supports

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



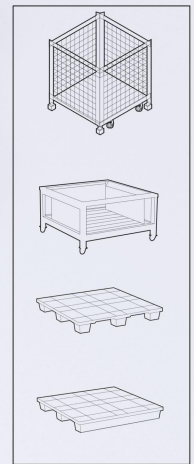
All-round Protection Makes it Really Safe

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.



Application Scenario



Scan to Follow

Parameter Specification

● Standard ○ Optional - None

Technical Parameters

Driving mode	Automatic navigation, handheld driving
Navigation type	Laser SLAM
Tray type	3-stringer pallet
Rated load capacity	1400kg
Load centre distance	600mm
Dead weight (with battery)	680/740kg
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: 2045±5/2205±5mm, SICK: 2010±5/2165±5mm
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 1000×1200 (1200 placed across forks)	1887+200mm
Right-angle stacking channel width, pallet 800×1200 (1200 placed along the fork)	1830+200mm
Right-angle stacking channel width, pallet 800×1000 (1000 placed along the fork)	1830+200mm
Map area (Single)	≤400000m ²
Minimum turning radius	1180+200mm

Performance Parameters

Driving speed: full load/no load	1.2/1.5 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%/5mm/15mm

Wheel Parameters

Tire size: driving wheel	230x75mm
Tire size: bearing wheel	80x54mm
Tire size: balance wheel	115x55mm
Wheel number: driving wheel/ balance wheel/bearing wheel	1/2/4

SFL-CDD14

Battery Parameters

Battery specifications	24V/180Ah (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 times

Certifications

EMC/ESD	●
UN38.3	●

Function Configurations

Lidar number	1 (P+F R2000 or SICK nanoScan3 Core) +3 (OLEI LR-1BS2H)
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	○

Safety Configurations

E-stop button	●
Sound and light indicator	●
Vehicle hardware fault detection	●
360° laser protection	●
Bumper strip	●
Fork height protection	●

Others

Network	4G/5G/Wi-Fi 802.11 a/b/g/n/ac
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Dimension (mm)

