



Laser SLAM Stacker Autonomous Forklift

SFL-CDD15

For Narrow Aisles, Flexible Customization



1.5 T Load Capacity, Stacking Height up to 3 m

Featuring a mainstream 1.5 tons load capacity, this premium Linde model reaches stacking heights of up to 3 meters. With a vehicle width of just 1128 mm and a minimum turning radius of only 1329 mm, it navigates effortlessly through narrow aisles.



AI Deep Learning, Improved Recognition Ability

It boasts the capability to recognize pallets, racks and cages in different colors and sizes with unparalleled precision and adaptability from multiple angles. Experience seamless and stable handling and transfer of goods.



Flexible Customization, Advanced Stacking Capability

With customizable fork heights of 2344 mm, 2924 mm, and 3244 mm, offering multi-level stacking and destacking capabilities. Supports customizable fork widths of 555 mm, 600 mm, and 680 mm, optional features include various laser navigation and 3D obstacle avoidance functions, and customization with your company's logo.



10 h Endurance, 3-min Fast Battery Swap

Equipped with a 24 V / 212 Ah battery, providing up to 10 hours of continuous operation. Supports rapid battery replacement within 3 minutes for added convenience.



3D Obstacle Avoidance, 360° Safety Protection

Equipped with a 3D obstacle avoidance camera, capable of scanning objects within 0.2 m to 5 m range and measuring depth data within that range, ensuring heightened safety.

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	1500 kg
Load center distance	600 mm
Weight (with battery)	835 kg
Standard lifting height	2430 / 3330 mm
Forklift dimensions: L x W x H	1730 x 1128 x 1964 mm
Fork dimensions: L x W x H	1200 x 185 x 55 mm
Fork outer width	555 / 600 / 680 mm
Right-angle stacking aisle width, pallet 1000x1200 (1200 placed along the fork)	2025+200 mm
Right-angle stacking aisle width, pallet 800x1200 (1200 placed along the fork)	1960+200 mm
Right-angle stacking aisle width, pallet 1000x1000 (1000 placed along the fork)	1822+200 mm
Minimum turning radius	1329 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	1.5 / 1.8 m/s
Passability (slope / step / gap)	<5% / 20 mm / 30 mm
Navigation position accuracy	±10 mm
Navigation angle accuracy	±0.5°

Battery parameters

Battery specifications	24 V / 212 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 (H1) +3 (C2) or 1 (P+F R2000) +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	●

Dimension (mm)

