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Laser SLAM Stacker Autonomous Forklift

SFL-CDD20-Y

Compact and Flexible, yet Capable of 2 T Stacking



2 T Load Capacity, Perfect for Narrow Aisles

With a load capacity of up to 2 tons, it supports fork heights of 1600 mm and 3000 mm, offering multi-level stacking and destacking capabilities. With a vehicle width of just 930 mm and a minimum turning radius of only 1270 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.



ZAPI+Kinco Servo Solution, Enhanced Precision and Stability

The mature servo solution boasts enhanced reliability and a measured positioning accuracy of ± 5 mm to ± 10 mm, catering to a wider array of scenarios.



Multiple Sensors, 360° Safety Protection

Equipped with dual obstacle avoidance lasers, photoelectric sensors in fork tips, and bumper strips as standard features. Optional 360° comprehensive safety protection lasers (Mid-360) ensure the safety of human-machine interaction scenarios.



2 h Charging, 10 h Endurance

Paired with a 24 V / 212 Ah battery, it automatically charges for 2 hours and boasts a range of up to 10 hours, ensuring prolonged operation.



Flexible Customization, Advanced Stacking Capability

Offering four customization options: fork width, vehicle height, color, and logo, flexibly catering to the diverse needs of our customers in actual scenarios.

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	2000 kg
Load center distance	600 mm
Weight (with battery)	950 / 1175 kg
Standard lifting height	1600 / 3000 mm
Forklift dimensions: L x W x H	1705 x 930 x 1990 / 1705 x 930 x 2220 mm
Fork dimensions: L x W x H	1220 x 180 x 65 mm
Fork outer width	600 / 680 mm
Right-angle stacking aisle width, pallet 1000x1200 (1200 placed along the fork)	1936+300 mm
Right-angle stacking aisle width, pallet 800x1200 (1200 placed along the fork)	1860+300 mm
Right-angle stacking aisle width, pallet 1000x1000 (1000 placed along the fork)	1825+300 mm
Minimum turning radius	1270 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% / 10 mm / 30 mm
Navigation position accuracy	±10 mm
Navigation angle accuracy	±1°

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	≤1 m / ≤1.5 m
360° laser protection	○
Bumper strip	●
Fork height protection	●

Dimension (mm)

