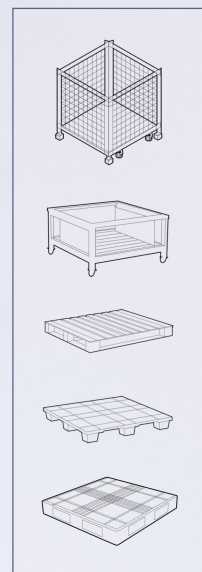
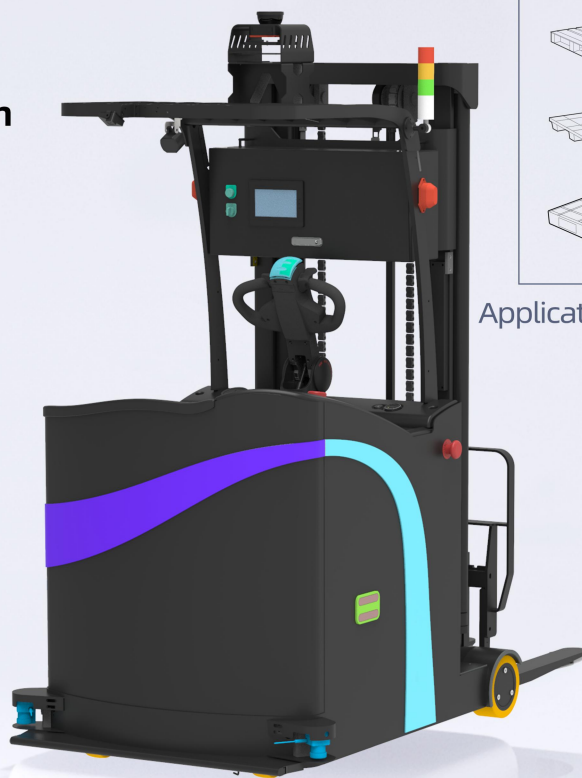


Laser SLAM Counterbalanced Smart Forklift SFL-CPD15-T

Superb Load Capacity and Powerful Compatibility



Application Scenario



Real Laser SLAM Navigation

Trackless path navigation without reflectors makes it really convenient to implement.



High-precision Recognition

Pallet identification, cage identification and precise goods forking—Both efficient and safe.

1.5

1.5T Load Capacity

Goods carrying with a load of 1.5T;
Repeat accuracy of the point: $\pm 10\text{mm}$, $\pm 0.5^\circ$.



Flexible Moving and Scheduling

Slender design and small radius of gyration for narrow aisles; flexible scheduling for seamless access.



All Round Protection Makes it Really Safe

Obstacle avoidance laser, distance sensor, 3D camera plane 360° + headspace protection, and multi-dimensional protection.



Superb Applicability

Proficient in climbing, crossing ridges, crossing elevators, carrying and stacking.



Scan to Follow

Parameter Specification

● Standard ○ Optional - None

Technical parameters

SFL-CPD15-T

Driving mode	Automatic navigation, car driving
Navigation type	Laser SLAM
Tray type	3-stringer pallet/Field pallet
Rated load capacity	1500kg
Load centre distance	500mm
Dead weight (with battery)	2325kg
Navigation position accuracy	±10mm
Navigation angle accuracy	±0.5°
Fork in-position accuracy	±10mm
Standard lifting height	3300mm
Gantry height	4208mm
Fork surface ground clearance (at the lowest position)	55mm
Navigation laser scanning height	2300mm
Vehicle size: length*width*height	2609*1187.5*2326mm
Fork size: length*width*height	950*100*40mm
Fork outer width	215-750mm
Right-angle stacking channel width pallet 1000×1200 (1200 placed across forks)	2819+200mm
Right-angle stacking channel width pallet 800×1200 (1200 placed along the fork)	2666+200mm
Right-angle stacking channel width pallet 800×1000 (1000 placed along the fork)	2776+200mm
Minimum turning radius	1514+200mm

Performance Parameters

Driving speed: full load/no load	1.38/1.38 m/s
Lifting speed: full load/no load	95/120 mm/s
Lowering speed: full load/no load	120/85 mm/s
Passability (slope/step/gap)	< 5%/10mm/30mm

Wheel Parameters

Wheel number: driving wheel balance wheel/bearing wheel	1/2/2
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Others

Network	4G/5G/Wi-Fi 802.11 a/b/g/n/ac
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Battery parameters

SFL-CPD15-T

Battery specifications	24V/270Ah (Lithium Iron Phosphate)
Battery weight	230kg
Comprehensive battery life	10h
Charging parameters	24V/100A
Charging time (10%-80%)	2.5h
Charging method	Manual/Automatic
Battery cycle number	>2000 times

Certifications

EMC/ESD	●
UN38.3	●

Function Configurations

Lidar number	1 (P+F R2000) +3 (OLEI LR-1BS2H)
Wi-Fi roaming function	●
3D obstacle detection	○
Pallet recognition	○
Cage stack	○
High shelf pallet recognition	○
Pallet damage detection	○
Pallet stacking and unstacking	○
The HMI screen	●
Fork distance sensor	●
Cargo overload detection	○

Safety Configurations

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

Dimension (mm)

