



## Laser SLAM Counterbalanced Autonomous Forklift

# SFL-CPD15-T

Superb Load Capacity and Powerful Compatibility



### 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 T Load Capacity

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



### Flexible Moving and Scheduling

Its slender design and small radius of gyration are suitable for narrow aisles.  
Flexible scheduling—Seamless access to the scheduling system.



### All Round Protection Makes it Really Safe

Obstacle detection 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.

## Parameter Specification

● Standard    ○ Optional

### Basic parameters

<b>Product name</b>	Laser SLAM Counterbalanced Autonomous Forklift
<b>Operation type</b>	Automatic navigation, seated driving
<b>Navigation type</b>	Laser SLAM
<b>Pallet type</b>	Open pallet / closed pallet
<b>Rated load capacity</b>	1500 kg
<b>Load center distance</b>	500 mm
<b>Weight (with battery)</b>	2325 kg
<b>Standard lifting height</b>	3300 mm
<b>Forklift dimensions: L x W x H</b>	P+F / FREE: 2520 x 1187 x 2346 / 2520 x 1187 x 2326 mm
<b>Fork dimensions: L x W x H</b>	950 x 100 x 40 mm
<b>Fork outer width</b>	215 mm~750 mm
<b>Right-angle stacking aisle width, pallet 1000x1200 (1200 placed along the fork)</b>	2943+200 mm
<b>Right-angle stacking aisle width, pallet 800x1200 (1200 placed along the fork)</b>	2911+200 mm
<b>Right-angle stacking aisle width, pallet 1000x1000 (1000 placed along the fork)</b>	2477+200 mm
<b>Minimum turning radius</b>	1511+200 mm
<b>Ambient temperature and humidity range</b>	TEMP: 0°C to 50°C / RH: 10% to 90%, no compression, no condensation

### Performance parameters

<b>Driving speed: full load / no load</b>	1.38 / 1.38 m/s
<b>Passability (slope / step / gap)</b>	< 5% / 10 mm / 30 mm
<b>Navigation position accuracy</b>	±10 mm
<b>Navigation angle accuracy</b>	±0.5°

### Battery parameters

<b>Battery specifications</b>	24 V / 250 Ah (lithium iron phosphate)
<b>Comprehensive battery life</b>	10 h
<b>Charging time (10% to 80%)</b>	2.5 h
<b>Charging method</b>	Manual / Automatic

### Function configurations

<b>Lidar number</b>	1 (P+F R2000 / FREE H1) +3 (FREE C2)
<b>Wi-Fi roaming</b>	●
<b>3D obstacle avoidance</b>	○
<b>Pallet recognition</b>	●
<b>Cage stack</b>	○
<b>High shelf pallet recognition</b>	○
<b>Pallet stack</b>	○
<b>HMI display</b>	●

### Safety configurations

<b>E-stop button</b>	●
<b>Sound and light indicator</b>	●
<b>Braking distance: 1 m/s / 1.5 m/s</b>	≤30 cm / ≤50 cm
<b>360° laser protection</b>	●
<b>Bumper strip</b>	●
<b>Fork height protection</b>	●

### Certifications

<b>EMC</b>	●
<b>UN38.3</b>	●

## Dimension (mm)

