

## SFL-CBD15

# Laser SLAM Ground Smart Forklift

## SFL-CBD15

The Strongest Forklift, Flexible and Efficient



### Small in Size but 1.5T Large in Load Capacity

It is only 932mm width designed for narrow aisles, with a load capacity up to 1.5T.



### 360° Large Field of View, Multiple Security Protection

Support up to 360° scanning range, 40m detection distance, large field of view for greater safety. With 3D safety obstacle detection laser, distance sensor, hardware self-check, and other features.



### 3+ Type of Pallet, Wide Angle High Precision Identification

Multi-angle and high-precision identification of multi-size and multi-type pallets, box pallets and shelves, such as euro pallets and non-standard pallets.



### 400,000m<sup>2</sup> Large Map

Identification of maps up to 400,000m<sup>2</sup>, easily transcending area restrictions and providing greater handling space and more storage options.



### Speed Increase 100% up to 2m/s

Maximum 2m/s running speed, 100% faster than the old model pallet truck.



### Quick Charge and Change, Dual Battery and Double Endurance

Supports up to 46A fast charging. Charging 1H for single battery can run 4-6H, for dual battery 8-10H running. Quick battery replacement in 3 minutes. Modular battery with global certification. Supports one more battery extension, double endurance.



Application Scenario



Scan to Follow



LinkedIn



YouTube

## 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	1500kg
Load centre distance	600mm
Wheelbase	1218mm
Dead weight (with battery)	388kg
Navigation position accuracy	±10mm
Navigation angle accuracy	±1°
Standard lifting height	120mm
Fork surface ground clearance (at the lowest position)	85mm
Navigation laser scanning height	1950mm
Vehicle size: length * width * height	1644*932*1991mm
Fork size: length * width * height	1150*170*70mm
Fork outer width	570mm
Right-angle stacking channel width, pallet 1000×1200 (1200 placed across forks)	2208mm
Right-angle stacking channel width, pallet 800×1200 (1200 placed along the fork)	2117mm
Right-angle stacking channel width, pallet 800×1000 (1000 placed along the fork)	2154mm
Map area (Single)	≤400000m <sup>2</sup>
Minimum turning radius	1453mm

### Performance parameters

Driving speed: full load/no load	2/2 m/s
Lifting speed: full load/no load	30/35 mm/s
Lowering speed: full load/no load	40/25 mm/s
Passability (slope/step/gap)	5%/10mm/30mm

### Wheel parameters

Tire type: driving wheel/supporting wheel	Polyurethane
Tire size: driving wheel	230x75mm
Tire size: bearing wheel	84x80mm
Tire size: balance wheel	115x55mm
Wheel number: driving wheel/balance wheel / bearing wheel	1/2/4
Wheel base: bearing side	400mm

### SFL-CBD15

### Battery parameters

Battery specifications	48V/23Ah (Lithium iron phosphate)
Battery weight	15kg
Comprehensive battery life	6-8h
Charging parameters	48V/1C
Charging time (10%-80%)	1h
Charging method	Manual/Automatic
Battery cycle number	>3000 times

### Function configurations

Lidar number	1 (H1E0-03B) +2 (C213)
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	●
Braking distance: 1m/s / 1.5m/s	≤30cm / ≤50cm
Vehicle hardware fault detection	●
360° laser protection	●
Bumper strip	●
Fork teeth height protection	●

### Others

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

