











Load Type





Laser SLAM Small Stacker Autonomous Forklift

SFL-CDD14-CE

Security Updates, Free Even in Narrow Aisles



CE Safety Certified, Outstanding Performance & Excellent Safety Standard by Design

Obtion CE certification (ISO 3691-4:2020) and other certifications.



Flexible Fleet Management, Makes It Really Intelligent

The fleet management system can be accessed seamlessly to make carrying smarter and simpler.



Pallet Recognition, Precise and Efficient

High-precision navigation & recognition, which delivers accurate forking, ensuring carrying efficiency.



Natural Feature Navigation, Accurate yet Flexible

SLAM navigation with an accuracy of ±10 mm, and without reflectors.



All Around Detection, 360° Safety

With 3D obstacle detection and other sensors for all-round security protection, security is greatly guaranteed.



1.4 T Payload Capacity, Large Weight Compatibility yet Smooth Handling

With rated load capacity of 1.4 T, the load capacity can be more powerful in case of narrow aisles carrying.

Basic parameters

Product name Laser SLAM Small Stacker Autonomous Forklift

Operation type Automatic navigation

by manual control device

Navigation type Laser SLAM Pallet type Open pallet 1400 kg Rated load capacity Load center distance 600 mm

Weight (with battery) 680 / 740 kg

Standard lifting height 1600 / 3000 mm

Forklift dimensions: L x W x H P+F: 1722 x 951 x 2064 / 1722 x 951 x 2234 mm SICK: 1722 x 951 x 2042 /

1722 x 951 x 2234 mm

1206+200 mm

1911+200 / 1914+200 / 1936+200 mm

1911+200 / 1914+200 / 1936+200 mm

TEMP: 0°C to 50°C / RH: 10% to 90%,

no compression, no condensation

1220 x 180 x 70 mm Fork dimensions: L x W x H Fork outer width 555 / 570 / 680 mm 1966+200 mm

Right-angle stacking aisle width, pallet 1000×1200

(1200 placed along the fork)

Right-angle stacking aisle width, pallet 800×1200

(1200 placed along the fork)

Right-angle stacking aisle width, pallet 1000×1000 (1000 placed along the fork)

Minimum turning radius

Ambient temperature and

humidity range

Battery parameters

Battery specifications 24 V / 210 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 (SICK nanoScan3 Core/P+ F OMD25M-R2000-B23-V1V1D-SD-1L) +

3 (2(SICK nanoScan3 Core) +1 (FREE C214))

Wi-Fi roaming

3D obstacle avoidance

Pallet recognition

Cage stack High shelf pallet recognition

Pallet stack

HMI display

Safety configurations

E-stop button

Braking distance: 1 m/s / 1.5 m/s

360° laser protection Fork height protection

Sound and light indicator

≤30 cm / ≤50 cm

Performance parameters

Driving speed: full load / no load 1.2 / 1.5 m/s

Passability (slope / step / gap) < 5% / 5 mm / 15 mm

Navigation position accuracy ±10 mm Navigation angle accuracy ±0.5°

Certifications

ISO 3691-4

EMC UN38.3

Dimension

(mm) 3-meter lifting height for example





