

# Laser SLAM Ground Automatic Forklift

SFL-MP10S

Safe, reliable, flexible and efficient



# **Highly Customized Laser**

More flexible for application scenario



# Collision Avoidance, Safe and Secure

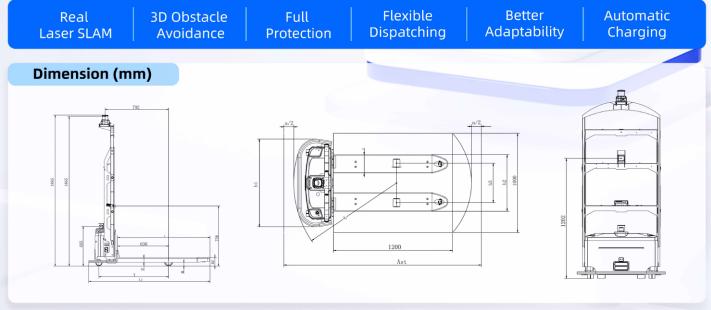
Increased protection range of anti-collision strip



### **3D Obstacle Avoidance**

360°full protection







#### **Parameter specification**

● Standard ○ Optional - N/A

1515\*885\*1885mm

1150\*186\*60mm

570/680mm

1989mm

1926mm

Technical	parameters
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## SFL-MP10S

**Powering method** Electric **Driving mode** Automatic navigation **Navigation type** Laser SLAM Tray type 3-stringer pallet Rated load capacity 800kg 600mm Load centre distance 869mm Wheelbase Dead weight (with battery) 210kg **Navigation position accuracy** ±10mm

±0.5° **Navigation angle accuracy** Fork in-position accuracy Standard lifting height 70mm **Gantry height** Fork surface ground clearance 106±5mm

(at the lowest position) 1865mm Navigation laser scanning height

Vehicle size: length \* width \* height Fork size: length \* width \* height Fork outer width Right-angle stacking channel width, pallet 1000×1200 (1200 placed across forks)

Right-angle stacking channel width, pallet 800×1200 (1200 placed along the fork)

Map area (Single) ≤ 400000m<sup>2</sup> Minimum turning radius 1035mm

#### **Performance parameters**

Driving speed: full load/no load 0.6/0.8m/s Lifting speed: full load/no load Lowering speed: full load/no load

Gantry movement speed: full load/no load < 5%/5mm/10mm Passability (slope/step/gap)[2]

0.6kW\*2 Drive motor power (S2, 60 min) 0.8kW Lifting motor power (S3, 15%) Steering motor power (S2, 10 min)

Service braking mode Electromagnetic brake **Drive control mode** Servo control

#### **Battery parameters**

Tire type: driving wheel/supporting wheel Polyurethane/Polyurethane 100mm Tire size: driving wheel 80mm Tire size: bearing wheel Tire size: Balance wheel Wheel number: driving wheel (x= driving wheel)/ bearing wheel Wheel base: bearing side 615mm 400mm Wheel base: driving side

#### **Battery parameters**

**Battery specifications Battery** weight

Comprehensive battery life

**Charging time (10%-80%) Charging method** 

**Battery cycle number** 

#### SFL-MP10S

48V/30Ah (Lithium Iron Phosphate) 15ka

8h 48V/15A 2h

Manual/Automatic

> 500

#### Certifications

150 3691-4 EMC/ESD UN38.3 RoHS

#### **Function configurations**

1 (P+F R2000)+1 (OLEI LR-1BS2-V2) Lidar number Wi-Fi roaming function 3D obstacle avoidance 0 0 Remote emergency stop  $\bigcirc$ Pallet recognition Cage stack High shelf pallet recognition 0 Pallet damage detection Pallet stacking and unstacking The HMI screen Fork tooth distance sensor Cargo overload detection  $\bigcirc$ 

#### Safety configurations

Fork teeth height protection

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** 

#### Others

Network 4G / 5G / Wi-Fi 802.11 a/b/g/n/ac **Ground flatness** ±5mm/m<sup>2</sup> Scenario requirements Only suitable for indoor, light intensity ≤40 klx (IEC 61496-3), Ambient temperature ground without water and oil and other scenes and humidity range TEMP: 0-50 / RH: 10-90, no compression, no condensation IP rating IP20 Noise near driver's ear ≤70dB(A) according to EN12053