Smart Forklift　F12ML

Product Dimensions

Dimensions: 1707×1050×2076 mm
Fork Dimensions: :
55×180×1200 mm; Spread: 560×620×680 mm
HMI Interface: Standard 10-inch display
Smart Access: Swipe permission module
Pallet Compatibility:
Supports H-shaped pallets and sizes
1200×1200, 1200×1000, 1100×1100,
1100×1000, 1200×800.

Battery & Power

Battery Type: Lithium-ion, 24 V/150 Ah
Runtime: 6–8 hours of continuous operation
Charging Time: 2–2.5 hours for a full charge
Cycle Life: Up to 1500 cycles, ensuring long-term reliability
Drive Motor Power:
Standard: 3.5 KW
Safety Version: 3.2 KW

Core Features & Performance

Navigation System	Laser SLAM
Payload Capacity	0–2 m: 1500 kg 2–2.5 m: 1200 kg 2.5–3 m: 1000 kg
Motion Capabilities	Forward, backward, curved turns, and spin turns
Position Accuracy	±10mm for precise handling and stacking
BaseTravel Speed	Maximum speed of 1.5m/s
Lift Speed	With load: 1.0 m/s Without load: 1.5 m/s
Lifting Height	2300mm

Safety & Environmental Adaptability

Obstacle Detection	3 laser radars + vertical 3D camera
Collision Prevention	Standard: Bumper strip Safety Version: Lidar + Mechanical anti-collision
Emergency Features	Emergency stop and acoustic-optic alarm for enhanced safety.
Operating Conditions	Temperature: 0°C to 45°C (charging), -10°C to 45°C (discharge).
Floor Requirements:	Flatness: Deviation ≤5mm per 1m². Crossing Ability: Floor surface drop ≤20mm recommended
Safety Verification	CE PLd