Smart Forklift   F20MT

Product Dimensions

Dimensions: 1594×1094×2067mm
Fork Dimensions: :
55×180×1200mm; Spread: 560×620×680mm
HMI Interface: Standard 10-inch display for intuitive operation.
Smart Access: Swipe permission module for secure usage.
Pallet Compatibility:
Supports H-shaped pallets
 sizes 1200×1200, 1200×1000,
        1100×1100, 1200×800.

Battery & Power

Battery Type: Lithium-ion, 24 V/150 Ah.
Runtime: 6–8 hours of continuous operation.
Charging Time: Less than 2.5 hours for a full charge.
Cycle Life: Up to 1500 cycles, ensuring long-term reliability.
Drive Motor Power:
Standard: 1.25 KW
Safety Version: 1.3 KW

Core Features & Performance

Navigation System	Laser SLAM
Payload Capacity	Up to 2000kg, suitable for heavy-duty operations
Motion Capabilities	Forward, backward, curved turns, and spin turns
Position Accuracy	±10mm for precise handling and stacking
BaseTravel Speed	Maximum speed of 1.5 m/s,
Lift Speed	With load: 35mm/s Without load: 40mm/s
Lifting Height	120mm

Safety & Environmental Adaptability

Obstacle Detection	2 laser radars + vertical 3D camera
Collision Prevention	Standard: Bumper strip Safety Version: Lidar + Mechanical anti-collision.
Emergency Features	Emergency stop and acoustic-optic alarm
Operating Conditions	Temperature: -10°C to 45°C (discharge), 0°C to 45°C (charging) Humidity: 10–95%, no condensation
Floor Requirements:	Flatness: Deviation ≤5mm per 1m². Crossing Ability: Floor surface drop ≤20mm recommended
Safety verificaion	CE&UKCA PLd