



MF300DM

CE Safety Certification, Flexible and Efficient



CE Certification, Safety Guaranteed

The vehicle has passed the CE safety certification (ISO3691-4:2023) and other related certifications, ensuring safer operation.



AI Carrier Recognition, Precise and Efficient

Equipped with a depth recognition camera, it supports real-time AI carrier recognition. Even in scenarios where the cargo is placed on a tote dolly without fixed grooves and the QR code, our truck can still precisely and efficiently pick up and drop off goods.



Multiple Sensors, 360° Safety Assurance

Built-in safety obstacle avoidance lasers, 3D obstacle avoidance cameras, bumper strips, and photoelectric sensors, among various multiple safety sensors, providing 360° safety protection.



Vehicle Body Width: 500 mm, Designed for Narrow Aisles

The vehicle width is 500 mm, and the rotation radius is 804 mm, perfectly suited to narrow aisle scenarios. The ground clearance of the vehicle chassis is a mere 20 mm, enabling it to effortlessly pass through scenes like elevators.



Modular Design, Flexible Customization

The modular design and assembly enable the customization of the size of the forks and the robot based on demand. It is capable of adapting to various scenarios and meeting different demands.



Intelligent Fleet Manager That Optimized Your Workflow

Sesto Robotics' MagFleet uses AI to optimise the delivery throughput and prevent congestion

● Standard ○ Optional



Basic Parameters

Product Name	MF300DM
Operation type	Automatic navigation
Navigation type	Laser SLAM
Pallet type	Tote dolly / shelf
Rated load capacity	300 kg
Load center distance	465 mm
Weight (with battery)	230 kg
Standard lifting height	70±5 mm ~ 90±5 mm (default 70 mm)
Forklift dimensions: L × W × H	1094 × 500 × 1743 mm
Fork dimensions: L × W × H	600 × 300 mm
Minimum turning radius	804 mm
Ambient temperature and humidity range	TEMP: 0°C to 50°C / RH: 10% to 90%, no compression, no condensation
Driving speed: full load / no load	0.8 / 1.4 m/s

Performance parameters

Passability (slope / step / gap)	<3% / 2 mm / 5 mm
Navigation position accuracy	±10 mm
Navigation angle accuracy	±1°
Battery specifications	48 V / 23 Ah (lithium iron phosphate)

Battery parameters

Comprehensive battery life	6 h
Charging time (10% to 80%)	1 h
Charging method	Manual / Automatic
Lidar number	1 (P+F R2000) + 2 (SICK / nanoScan3 Hv)
Wi-Fi roaming	●

Function Configurations

3D obstacle avoidance	○
Pallet recognition	○
HMI display	●
E-stop button	●
Sound and light indicator	●

Safety Configurations

Braking distance: 1 m/s / 1.5 m/s	≤30 cm / ≤50 cm
360° laser protection	●
Bumper strip	●
Fork height protection	●

Certifications

ISO 3691-4	●
EMC	●
UN38.3	●
RED	●
Global series	Yes
Product series	SESTO ForkLift AMRs

