

M-Series Robots M200C

Product Dimensions

Body Size: 760×520×313 mm
Weight: 106 kg
Rotation Diameter: 774 mm
Chassis Height: 19 mm
Minimum Passage Width: 0.7 m
Rack Specifications
Minimum Rack Size: 900×720 mm
Maximum Rack Size: 1000×800 mm
Rack Height: 1500 mm
Rack Center of Gravity: 60 mm

Battery & Power

Battery Type: Gelled Ternary Lithium Ion, DC 50.4V, 27 Ah
Cycle Life: >2000 charge/discharge cycles
Charging Time: 10 minutes charge for 1-hour work (user-defined charging time supported)



Core Features & Performance		Safety & Environmental Adaptability	
Navigation System	Laser SLAM (Improved by Reflector / Visual Language) / QR Code	Obstacle Detection	Front and rear laser lidars + 85° forward visual detection
Payload Capacity	200kg	Collision Prevention	All-around coverage
Motion Capabilities	Forward, backward, curved turns, and spin turns	Emergency Features	1 emergency stop button on left and right panels
Position Accuracy	Running Accuracy : <±20mm, 2° Stop Accuracy : <±10mm, 1° (End-assisted positioning)	Operating Conditions	Temperature: 1045°C (optimal: 1040°C) Humidity: 10–95%, non-condensing
BaseTravel Speed	1.5m/s (No-load & Full-load)		
Lift Time	4s	Floor Requirements:	Flatness: ≤4mm within 1m² Crossing Ability: <10mm

M-Series Robots MP1000R-SNE V2.1

Product Dimensions

Body Size: 1105×855×275 mm

Weight: 106 kg

Rotation Diameter: 774 mm

Chassis Height: 19 mm

Minimum Passage Width: 0.7 m

Rack Specifications

Minimum Rack Size: 1020×1020 mm

Maximum Rack Size: 1500×1500 mm

Rack Height: 2400 mm

Rack Center of Gravity: 110 mm

Battery & Power

Battery Type: Gelled Ternary Lithium Ion, DC50.4V, 39Ah/40.3Ah

Cycle Life: >2000 charge/discharge cycles

Charging Time: 10 minutes charge for 1-hour work (user-defined charging time supported)



Core Features & Performance

Navigation System	Laser SLAM (Improved by Reflector / Visual Language) / QR Code
Payload Capacity	1000kg
Motion Capabilities	Forward, backward, curved turns, and spin turns
Position Accuracy	Running Accuracy : <±20mm, 2° Stop Accuracy : <±10mm, 1° (End-assisted positioning)
BaseTravel Speed	1.5m/s (No-load & Full-load)
Lift Time	4s

Safety & Environmental Adaptability

Obstacle Detection	360° laser lidars + 85° forward visual detection
Collision Prevention	All-around coverage
Emergency Features	2 emergency stop button on front and rear panels
Operating Conditions	Temperature: -10~45°C (optimal: -10~40°C) Humidity: 10~95%, non-condensing
Floor Requirements:	Flatness: ≤8 mm within 1m ² Crossing Ability: <10 mm

M-Series Robots M1000R

Product Dimensions

Body Size:1095×830×275 mm

Weight: 169 kg

Rotation Diameter: 1095 mm

Maximum Lift Height: 60 mm

Shelf Dimensions:

Standard Container Size: 1220×1020mm shelf

Size Range for Maximum Load: 1020×1020 to 11250×1250mm shelf

Minimum Shelf Inside Diameter: 930mm

Shelf Bottom Height: 300mm



Battery & Power

Battery Type:

Wide temperature lithium battery, DC51.1V, 30Ah
(M1000R-SWE-B V2.x)

Wide temperature lithium battery, DC51.8V, 40.3Ah
(M1000R-SNE-B V2.x)

Cycle Life:

>5 years (M1000R-SWE-B V2.x)

>3 years (M1000R-SNE-B V2.x)

Charging Time:10 minutes charge for 1.5–2 hours of work

Core Features & Performance

Navigation System	Inertia + QR code visual navigation
Payload Capacity	1000kg
Motion Capabilities	Forward, backward, curved turns, and spin turns
Position Accuracy	Running Accuracy : <±20mm, 2° Stop Accuracy : <±10mm, 1° (End-assisted positioning)
Base Travel Speed	1.5m/s (No-load & Full-load)
Lift Time	4s

Safety & Environmental Adaptability

Obstacle Detection	Lidar Obstacle Detection
Collision Prevention	All-around coverage
Emergency Features	1 emergency stop button (front and rear) 1 bumper strip (front and rear)
Operating Conditions	Temperature: -10°C ~50°C (M1000R-SWE-B V2.x) -10°C ~45°C (M1000R-SNE-B V2.x) Humidity: ≥5°C :10%~95%, non-condensing <5°C : 10%~40%, non-condensing
Floor Requirements:	Flatness: Height difference ≤8mm within 2m ² Step: ≤2mm Ditch Width: ≤5mm