

1. Specifications

Designated use

Autonomous Mobile Robot
(AMR)

For smaller transport tasks within the industry, logistics and healthcare

Dimensions

Length	890 mm / 35 in
Width	580 mm / 22.8 in
Height	352 mm / 13.9 in
Ground clearance	50 mm / 2 in
Weight (without load)	65 kg / 143 lbs
Load surface	600 x 800 mm

Color

RAL 9010	Pure White
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Payload

Payload	100 kg / 220 lbs (maximum 5% incline)
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Payload

Towing capacity	300 kg / 660 lbs (see MiRHook100 specifications)
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Speed and performance

Running time	10 hours or 20 km / 12 mi
Maximum speed	Forwards: 1.5 m/s (5.4 km/h) / Backwards: 0.3 m/s (1 km/h)
Turning radius	520 mm / 20 in (around center of robot)
Positioning accuracy	+/- 50 mm / 2 in from center of position, +/- 10 mm / 0.4 in to docking marker
Traversable gap and sill tolerance	20 mm / 0.8 in
Position accuracy with precision docking	+/- 1mm

Power

Battery	Li-NMC, 24 V, 40 Ah
Charging time	With cable: up to 4.5 hours (0-80%: 3 hours) / With charging station: up to 3 hours (0-80%: 2 hours)
External charger	Input: 100-230 V ac, 50-60 Hz / Output: 24 V, max 15 A

Environment

Environment	For indoor use only
Ambient temperature range	+5°C to 40°C (humidity 10-95% non-condensing)
IP Class	IP20
Noise level	60-64 dBA at 1.1m/s (depending on ground surface roughness)

Compliance and approvals

Certifications	CE certified, Clean Room Certified
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Communication

WiFi	Dual-band wireless AC/G/N/B
Bluetooth	4.0 LE, range: 10-20 m / 33-66 ft
I/O connections	USB and Ethernet

Sensors

SICK microScan3 safety system (2 pcs)	SICK safety laser scanners S300 (front and back) 360° visual protection around robot
3D camera Intel RealSense D435™ on robot (missing or bad snippet)	Detection of objects ahead 50-1800 mm / 2-20 in above floor

Top module

Maximum height from floor to top

1800 mm / 70 in

Center of gravity

< 900 mm / 35 in above the floor