

# 1. Specifications

## Designated use

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Autonomous Mobile Robot  
(AMR)

For smaller transport tasks within the industry, logistics and healthcare

## Dimensions

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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

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RAL 7011	Iron Grey
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## Payload

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Payload	200 kg / 440 lbs (maximum 5% incline)
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## Payload

Towing capacity	500 kg / 1100 lbs (see MiRHook 200 specifications)
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## Speed and performance

Running time	10 hours or 15 km / 9 mi
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Maximum speed	Forwards: 1.1m/s (4 km/h) / Backwards: 0.3 m/s (1 km/h)
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Turning radius	520 mm / 20 in (around center of robot)
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Positioning accuracy	+/- 50 mm / 2 in from center of position, +/- 10 mm / 0.4 in to docking marker
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Traversable gap and sill tolerance	20 mm / 0.8 in
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Position accuracy with precision docking	+/- 1mm
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## Power

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

Environment	For indoor use only
Ambient temperature range	+5°C to 40°C (humidity 10-95% non-condensing)
IP Class	IP20

## Compliance and approvals

Certifications	ESD certified, Clean Room Certified, ESD Approved
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## 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