

MiR200



The MiR200 is a safe, cost-effective mobile robot that quickly automates your internal transportation and logistics. The robot optimizes workflows, freeing staff resources so you can increase productivity and reduce costs.

Designated use

Autonomous Mobile Robot (AMR)	For smaller transport tasks within the industry, logistics and healthcare
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Dimensions

Length	890 mm / 35 in
Width	580 mm / 22.8 in
Height	352 mm / 13.9 in
Weight (without load)	70 kg / 143 lbs
Ground clearance	50 mm / 2 in

Color

RAL color RAL 7011 / Iron Gray

Payload

Robot payload 200 kg / 440 lbs (maximum 5% incline)

Towing capacity 500 kg / 1100 lbs (see MiR200 Hook specifications)

Speed and performance

Battery running time 10 hours or 15 km / 9 mi

Maximum speed Forwards: 1.1 m/s (4km/h) / 3.6 ft/s (2.5 mph) Backwards: 0.3 m/s (1 km/h) / 1.0 ft/s (0.7 mph)

Turning radius 520 mm / 20 in (around center of robot)

Positioning accuracy +/- 50 mm / 2 in of position, +/- 10 mm / 0.4 to docking marker

Traversable gap and sill tolerance 20 mm / 0.8 in

Minimum corridor width 950 mm (default footprint)

Turning diameter around obstacle/wall No load: 1.3 m, full load: 1.3 m (default footprint). No load: 1.2 m, full load: 1.1 m (minimized footprint)

Product design life 5 years or 20.000 hours, whichever comes first

Minimum distance between chargers 100 mm

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

Charging options MiRCharge 24V, Cable Charger

Environment

Safety standards for industrial vehicles +5°C to 40°C (humidity 10-95% non-condensing)

IP Class IP 20

Compliance and approvals CE, EN1525, ANSI B56.5, ISO13849-1, EN61000-6-2 & EN61.000-6-4, Clean Room Certified (ISO Class 4) ESD Approved

Environment For indoor use only

Noise level

60-64 dBA (depending on surface)

Communication

WiFi

Dual-band wireless AC/G/N/B

Bluetooth

4.0 LE, range: 10-20 m / 33-66 ft

I/Os

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 (2 pcs.)

3D camera Intel RealSense™ Detection of objects ahead 50-1800 mm above floor

Ultrasound sensors

4 pcs.

Top module

Max. height from floor to top

1800 mm / 70.9 in

Center of gravity

< 900 mm / 35 in above the floor