

# 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

## Dimensions

**Length**

890 mm / 35 in

**Width**

580 mm / 22.8 in

<b>Height</b>	352 mm / 13.9 in
<b>Height above floor</b>	50 mm / 2 in
<b>Weight (without load)</b>	70 kg / 143 lbs
<b>Load surface</b>	760 x 445 mm
<b>Ground clearance</b>	50 mm / 2 in

## Color

<b>RAL color</b>	RAL 7011 / Iron Gray
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## Payload

<b>Robot payload</b>	200 kg / 440 lbs (maximum 5% incline)
<b>Towing capacity</b>	500 kg / 1100 lbs (see MiR200 Hook specifications)

## Speed and performance

<b>Battery running time</b>	10 hours or 15 km / 9 mi
<b>Maximum speed</b>	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)
<b>Turning radius</b>	520 mm / 20 in (around center of robot)
<b>Positioning accuracy</b>	+/- 50 mm / 2 in of position, +/- 10 mm / 0.4 to docking marker
<b>Traversable gap and sill tolerance</b>	20 mm / 0.8 in
<b>Minimum corridor width</b>	0,95 m (normal footprint)
<b>Turning diameter around obstacle/wall</b>	No load: 1.3 m, full load: 1.3 m (normal footprint). No load: 1.2 m, full load: 1.1 m (minimized footprint)
<b>Product design life</b>	5 years or 20.000 hours, whichever comes first

## Power

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

<b>Charging options</b>	MiRCharge 24V, Cable Charger
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## Environment

<b>Safety standards for industrial vehicles</b>	+5°C to 40°C (humidity 10-95% non-condensing)
<b>IP Class</b>	IP 20
<b>Compliance and approvals</b>	CE, EN1525 & ANSI B56.5 Clean Room Certified (ISO Class 4) ESD Approved
<b>Environment</b>	For indoor use only
<b>Noise level</b>	60-64 dBA (depending on surface)

## Communication

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

## Sensors

<b>SICK microScan3 safety system (2 pcs.)</b>	SICK safety laser scanners S300 (front and back) 360° visual protection around robot
<b>3D camera (2 pcs.)</b>	3D camera Intel RealSense™ Detection of objects ahead 50-1800 mm above floor
<b>Ultrasound sensors</b>	4 pcs.

## Top module

<b>Max. height from floor to top</b>	1800 mm / 70.9 in
<b>Center of gravity</b>	< 900 mm / 35 in above the floor