

# MiR100™

## Designated use

Collaborative mobile robot

for smaller transport tasks within the industry, logistics and healthcare

## Dimensions

Length	890 mm
Width	580 mm
Height	352 mm
Height above floor	50 mm
Weight (without load)	62.5 kg
Load surface	600 mm x 800 mm

## Color

RAL	9010
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## Payload

Robot payload	100 kg (maximum 5% incline)
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## Speed and performance

Running time	10 hours or 20 km
Maximum speed	forwards: 1.5 m/s (5.4 km/h) / backwards: 0.3 m/s (1 km/h)
Turning radius	0.55 m (around center of robot)
Positioning accuracy	+/-5 cm of position, +/-1 cm to docking marker
Traversable gap and sill tolerance	2 cm

## Power

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

## Environment

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Ambient temperature range +5°C to 50°C (humidity 10-95% non-condensing)

IP class IP 20

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## Communication

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WiFi Dual-band wireless AC/G/N/B

Bluetooth 4.0 LE, range: 10-20 m

I/Os USB and Ethernet

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## Safety sensors

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SICK laser scanners S300 (front and back) 360° visual protection

3D camera Intel RealSense™ detection of objects ahead 5-50 cm above floor

Ultrasonic scanners (4 pcs.) detection of transparent objects ahead, e.g. glass doors

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## Top module

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Max. height from floor to top 1800 mm

Center of gravity Lower than 900 mm above the floor

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