



Mir 100

Designated use

Collaborative mobile robot	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
Ground clearance	50 mm / 2 in
Weight (without load)	70 kg / 143 lbs
Load surface	600 x 800 mm

Color

RAL 9010	Pure White
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Payload

Robot payload	100 kg / 220 lbs (maximum 5% incline)
Towing capacity	300 kg / 660 lbs (see MiRHook100 specifications)

Speed and performance

Running time	10 hours or 20 km / 12 mi
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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 of position, +/- 10 mm / 0.4 in to docking marker

Traversable gap and sill tolerance 20 mm / 0.8 in

Accuracy with Precision Docking +/- 1 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

Environment

Ambient temperature range +5°C to 40°C (humidity 10-95% non-condensing)

IP class IP 20

Certifications CE certified, Clean Room Certified

Noise level 60-64 dBA at 1.1 m/s (depending on ground surface roughness)

Communication

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



I/Os

USB and Ethernet

Sensors

SICK 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

Top module

Max. height from floor to top

1800 mm / 70 in

Center of gravity

< 900 mm / 35 in above the floor

Compliance and approvals

Safety standards for industrial vehicles

CE, EN1525 & ANSI B56.5

EMC

EN61000-6-2 & EN61000-6-4