

MiR100 for automation of in-house transport and logistics solutions

MiR100 EN 11 2016

Specifications	
Designated use	
Mobile robot	for smaller transport tasks within the industry, logistics and healthcare
Dimensions	
Length x Width x Height	900 mm x 600 mm x 358 mm
Height above floor	50 mm
Weight (without load)	62.5 kg
Load	
Load surface	600 x 800 mm - ½ EU pallet
Load weight	up to 100 kg (if towing a cart, up to 300 kg - see separate data sheet)
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)
Maximum grade increase	5% with 100 kg load
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	
Ambient temperature range	+5°C to 50°C (humidity 10-95% non-condensing)
IP class	IP 20
Communication	
WiFi	Dual-band wireless AC/G/N/B
Bluetooth (for peripheral equipment, e.g. automatic doors)	4.0 LE, range: 10-20 m
I/Os	USB and Ethernet
Sensors	
SICK laser scanners S300 (2 pcs.)	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
Top module	
Max. height from floor to top	1800 mm
Center of gravity	Lower than 900 mm above the floor

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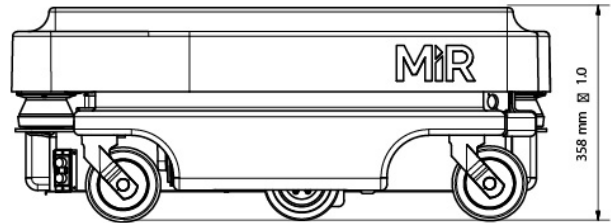
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**YOUR
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MiR100 dimensions



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