

MiR100 for automation of in-house transport and logistics solutions

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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
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)
Swinging radius (with trolley)	Length of trolley plus 0.55 m
Positioning accuracy	Radius of 10 cm
Traversable gap and sill tolerance	2 cm
Power	
Battery	Li-NMC, 24 V, 40 Ah, Cycle life < 600 (DOD: 80%) Charging time: up to 3 hours (0-80%: 2 hours)
Environment	
Ambient temperature range	+5°C to 50°C (humidity 10-95% non-condensing)
IP class	IP 20
Communication	
WiFi	Dual-band wireless AC
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 (2 pcs.)	detection of transparent objects ahead, e.g. glass doors
Built-in loudspeakers 3W	emitting audio signals for warnings and announcements
Top module	
Max. height from floor to top	1800 mm
Center of gravity	Lower than 900 mm above the floor

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Mobile Industrial Robots ApS
Emil Neckelmannsvej 15F
DK-5220 Odense SØ

+45 20 377 577
mail@mir-robots.com
http://mirrobots.com



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MOVER**

MIR100 dimensions

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