

MiR100 Hook for automated in-house trolley transport solutions

MiR100 Hook EN 05 2016

Specifications	
Designated use	
Mobile robot with trolley hook	for fully-automated pick-up and delivery of trolleys
Dimensions	
Length x Width x Height	1240 mm x 600 mm x 850 mm (hook in highest position)
Height above floor	50 mm
Weight (without load)	97 kg
Pulling capacity	
Load on trolley	up to 300 kg
Speed and performance	
Running time	up to 10 hours or 20 km (depending on load)
Maximum speed	forwards: 1.5 m/s (5.4 km/h) / backwards: 0.3 m/s (1 km/h)
Maximum grade increase	5% with 200 kg load
Turning radius (without trolley)	0.83 m (around center of robot)
Swinging radius (with trolley)	Length of trolley plus 0.55 m
Positioning accuracy (placing trolley)	Radius of 20 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
Safety 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
Trolley	
Length	500 to 4000 mm
Width	400 to 1500 mm
Height	200 to 2000 mm

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MiR100 Hook dimensions

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