

MIRHook for automated in-house cart transport solutions

MIRHook EN 01 2017

Specifications	
Designated use	Mobile robot with hook for fully-automated pick-up and delivery of carts
Dimensions	
Length	1275 to 1180 mm (hook lowest to highest positions)
Width	600 mm
Height	550 to 900 mm (hook lowest to highest positions)
Height above floor	Robot: 50 mm; Gripping height: 50-390 mm
Weight (without load)	97 kg
Pulling capacity	
Load on trolley	up to 300 kg
Speed and performance	
Running time	8-10 hours or 15-20 km (depending on load)
Maximum speed	1.5 m/s (5.4 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)	Total length of robot and cart plus 0.55 m
Positioning accuracy (placing trolley)	±20 cm from center of position, 10° accuracy
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
Safety sensors	
SICK laser scanners S300 (2 pcs.)	360° visual protection around robot
3D camera Intel RealSense™ on robot	detection of objects ahead 5-50 cm above floor
3D camera Intel RealSense™ on front of hook	detection of objects ahead up to 200 cm above floor
Ultrasonic scanners (4 pcs.)	detection of transparent objects ahead, e.g. glass doors
Trolley	
Length	500 to 2400 mm
Width	400 to 1500 mm
Height	200 to 2000 mm

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MiRHook dimensions

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