

MiRHook 200 Data Sheet

| Collaborative mobile robot with hook | for fully-automated pick-up and delivery of carts |
|---|--|
| Dimensions | · |
| Length | 1180 to 1275 mm (highest to lowest positions) |
| Width | 580 mm |
| Hight | 550 to 900 mm (highest to lowest positions) |
| Hight above floor | Robot: 50 mm; Gripping height: 50-390 mm |
| Weight | 103 kg |
| Color | |
| Ral | 7011 |
| Towing Capacity | |
| Load on cart | Up to 500 kg at <1% incline - 300 kg at 5% incline |
| Speed and Performance | |
| Battery run time | 8-10 hours or 15-20 km (depending on load) |
| Maximum speed | 1.1 m/s (4 km/h) |
| Turning radius (without cart) | 520 mm (around center of robot) |
| Swinging radius (with cart) | Total length of robot and cart plus 550 mm |
| Positioning accuracy | +/-200 mm 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 | IP20 |
| Communication | |
| WiFi | Dual-band wireless AC/G/N/B |
| Bluetooth | 4.0 LE, range: 10-20 m |
| I/Os | USB and Ethernet |
| Safety Sensors | |
| SICK laser scanners \$300 (front and back) | 360° visual protection around robot |
| 3D camera Intel RealSense™ on robot | Detection of objects ahead 50-500 mm above floor |
| 3D camera Intel RealSense™ on front of hook | Detection of objects ahead up to 2000 mm above floor |
| Ultrasonic scanners (4 pcs.) | Detection of transparent objects ahead, e.g. glass doors |
| Cart | |
| | 500 L 0400 |
| Length | 500 to 2400 mm |







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