

## Designated use

Collaborative mobile robot      For smaller transport tasks within the industry, logistics and healthcare

## Dimensions

|                       |             |
|-----------------------|-------------|
| Length                | 890 mm      |
| Width                 | 580 mm      |
| Height                | 352 mm      |
| Clearance             | 50 mm       |
| Weight (without load) | 67 kg       |
| Load surface          | 600 x 800mm |

## Color

RAL 9010      Pure White

## Payload

|                 |   |
|-----------------|---|
| Robot payload   | 100 kg (maximum 5% incline)             |
| Towing capacity | 300 kg (see MiRHook 100 specifications) |

## 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) |
| Turning radius                     | 520 mm (around center of robot)                            |
| Positioning accuracy               | +/-50 mm of position, +/-10 mm to docking marker           |
| Traversable gap and sill tolerance | 20 mm  |

## 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

|           |                             |
|-----------|-----------------------------|
| Wi-Fi     | Dual-band wireless AC/G/N/B |
| Bluetooth | 4.0 LE, range: 10-20 m      |
| I/O       | USB and Ethernet            |

## Sensors

|  |  |
|--|--|
| SICK safety laser scanners S300 (front and back) | 360° visual protection                                   |
| 3D camera Intel RealSense™                       | Detection of objects ahead 50-500 mm 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 |



