

Increase the efficiency of internal transportation tasks with an extended-payload MiRHook™ mobile robot. MiRHook™ is a user-friendly and efficient mobile robot for fully automated pick-up and towing of carts in production, logistics and healthcare environments.



MiRHook™

- ✓ Collects and delivers unlimited number of carts
- ✓ Enhances production flow to increase productivity
- ✓ Redeploys staff from pushing carts to higher-value activities
- ✓ Safely and efficiently maneuvers around people and obstacles
- ✓ Requires no changes to existing facility
- ✓ Provided with changeable hook gripper
- ✓ Needs no prior programming experience





Ideal for a wide range of towing jobs

MiRHook™ is ideal for a wide range of towing jobs, such as efficiently moving heavy products between locations in a manufacturing facility or warehouse, or moving linen and food carts in hospitals. The MiRHook supports the transport of loads up to 300 kg (661 lbs), providing exciting new internal logistics options for weighty or unwieldy cargos.

Autonomously picks up and unloads carts

The MiRHook™ robot identifies carts by QR markers and autonomously transports them as you define. MiRHook can be incorporated into a fleet of MiR robots, and can be easily redeployed to meet changing requirements. Updating the robot's mission at any time is simple, using a smartphone, tablet or computer and standard Wi-Fi or Bluetooth communications to access the robot's intuitive controls.

Safely maneuvers among people

With the MiRHook, you simply measure your cart and feed the data into the software. Built-in sensors, cameras and sophisticated software mean the robot with the MiRHook and a cart can safely maneuver around people and obstacles, and can even drive up ramps.



Dimensions

Length	1275 to 1180 mm (lowest to highest position)
Width	600 mm
Height	550 to 900 mm (lowest to highest positions)
Height above floor	Robot: 50 mm; Gripping height: 60 mm - 400 mm
Weight (without load)	97 kg

Pulling capacity

Load on cart	up to 300 kg
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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 cart)	0.83 m (around center of robot)
Swinging radius (with cart)	Total length of robot and cart plus 0.55 m
Positioning accuracy (placing cart)	±20 cm from center of position, 10° accuracy

Environment

Ambient temperature range	+5°C to 50°C (humidity 10-95% non-condensing)
IP class	IP 20

Safety sensors

SICK laser scanners S300 (front and back)	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

Cart

Length	500 to 4000 mm
Width	400 to 1500 mm
Height	200 to 2000 mm

Power

Battery	Li-NMC, 24 V, 40 Ah; charging time: up to 3 hrs
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