

# MiR Hook 250



With a faster and more agile base robot along with improved software for the hook this solution is developed to suit your needs in a dynamic factory layout.

## General information

<b>Designated use</b>	For fully-automated pick-up and delivery of carts
<b>Type</b>	Hook for MiR250
<b>Color</b>	RAL 7011 - Iron Gray
<b>Product design life</b>	5 years or 20 000 hours, whichever comes first
<b>Cover material</b>	Aluminum
<b>Disclaimer</b>	Specifications may vary based on local conditions and application setup

## Dimensions

<b>Weight with MiR250 (without battery or</b>	188 kg   414 lbs
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payload)

Gripping height 80–350 mm | 3.1–13.8 in

## Payload

Maximum payload incl. cart Up to 500 kg | 1100 lbs

Minimum cart weight Cart must be able to deliver a torque of minimum 50 Nm | 36.8 ft-lb

## Performance

Minimum corridor width With maximum payload and a 700 mm × 1 150 mm | 27.6 in × 45.3 in  
cart: 2 250 mm | 88.6 in

Minimum corridor width for a 90° turn With maximum payload and a 1 280 mm × 800 mm | 50.4 in × 31.5 in  
cart: 2 450 mm | 96.5 in

Minimum corridor width for a 180° turn With maximum payload and a 1 280 mm × 800 mm | 50.4 in × 31.5 in  
cart: 2 700 mm | 106.3 in

Minimum corridor width for two robots passing With default setup: 3 600 mm | 141.7 in. With improved setup: 3 000 mm | 118.1 in

Minimum doorway width With default footprint, maximum payload, and a 700 mm × 1 150 mm | 27.6 in × 45.3 in  
cart: 1 700 mm | 66.9 in

Active operation time with maximum payload 11 hours and 32 minutes

Active operation time with no payload 11 hours

Standby time (robot is on and idle) 90–10%: 11 hours and 14 minutes

Time needed for placing and picking up a cart Placing cart: 18 sec (17–19 sec). Picking up cart: 48 sec (46–51 sec)

Acceleration limits with maximum payload Recommended 40% of maximum acceleration, approximately 0.4 m/s<sup>2</sup> | 1.3 ft/s<sup>2</sup>

Maximum incline/decline 1% with maximum payload and 40% acceleration. 5% with 300 kg | 661 lbs, maximum 0.5 m/s | 1.6 ft/s

## Battery and charger

Charging ratio 1:12 (with maximum payload)

## Environment

Ambient temperature range, operation 5–40 °C | 41–104 °F according to ISO3691-4 section 4.1.2

Ambient temperature range, storage 1 month: -20–60 °C | -4–140 °F. 3 months: -20–+45 °C | -4–113 °F

Environment For indoor use only

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<b>Maximum altitude</b>	2 000 m   6 561 ft
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<b>IP Class</b>	IP21
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## Sensors

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<b>3D Camera</b>	1 Intel RealSense D435
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## Safety

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<b>Emergency stop</b>	Triggered by pressing the Emergency stop button.
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## Compliance

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<b>Safety standards for industrial vehicles</b>	Designed in accordance with present standards.
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## Maintenance

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<b>Maintenance covers</b>	2 inner and 2 outer covers
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<b>Service intervals</b>	6 months or according to user guide
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<b>Actuator life cycle</b>	Height adjustment actuators: 1 year. Gripping actuators: 2 years
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