



A better way

Do logistics in a better way

Want to optimize your productivity, internal workflows and increase your competitiveness? Bring your internal logistics up to speed with autonomous mobile robots that automate repetitive and injury-prone material transportation and work safely alongside your employees to boost productivity.

MiR's collaborative mobile robots are simple to integrate and easy to program, with no need for expensive and disruptive reconfiguration of your infrastructure. You'll see an immediate impact on your ability to process orders faster and reduce material handling costs to get fast ROI on your mobile robots-often, in less than 12 months.

Need flexibility? User-friendly MiR robots enable you to adapt to changing market demands, new products, and new production flows. Very easily, you can switch out top modules, change missions, and add new functionality, without the need for external integration services.

See how companies from different industries around the world – and from family-owned regional businesses to global companies with multiple locations - have found a better way to do logistics with MiR. With local sales offices around the world and a global distribution network, we are ready to support your business wherever you are located.

Flexibility

An open interface supports different applications



MiRGo

The MiR robots are flexible platforms, ready for your application to be integrated. With MiRGo, we present different available third party applications for your inspiration.

Check it out, maybe there's just the accessory you need in order to optimize your internal logistics.



MiR 100

MiR 250

DESIGNATED USE

Collaborative mobile robot	For smaller transport tasks within the industry, logistics	For internal transportation of goods and and healthcare automation of internal logistics
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DIMENSIONS

Length	890 mm / 35 in	800 mm / 31.5 in
Width	580 mm / 22.8 in	580 mm / 22.8 in
Height	352 mm / 13.9 in	300 mm / 11.8 in
Ground clearance	50 mm / 2 in	25 mm / 1.0 in
Weight (without battery and payload)	83 kg / 183 lbs	
Load surface	70 kg / 154 lbs	800 x 580 mm / 31.5 x 22.8 in

COLOR

RAL color	RAL 9003 / ATHLONE White	RAL 7011 / Iron Grey
RAL color - ESD version		RAL 9005 / Jet Black

PAYLOAD

Robot payload	100 kg / 220 lbs (maximum 5% incline)	250 kg / 551 lbs (maximum 5% incline)
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SPEED AND PERFORMANCE

Active operation time with max. payload	9 hours	13 hours
Active operation time without payload	17.4 hours	
Maximum speed	Forwards: 1.5 m/s (5.4 km/h) / 4.9 ft/s (3.6 mph) Backwards: 0.3 m/s (1 km/h) / 1.0 ft/s (0.7 mph)	2.0 m/s (7.2 km/h) / 6.6 ft/s (4.5 mph)
Positioning accuracy		+/- 20 mm / 0.8" in of position +/- 3 mm / 0.12" in to VL-marker
Traversable gap & sill tolerance	20 mm / 0.8 in	0-20 mm / 0-0.8 in
Operational corridor width		Default: 1550 mm / 61 in
Operational doorway width		Default 1400 mm / 55.1 in

POWER

Battery	Li-NMC, 24 V, 40 Ah	Li-NMC, 48 V, 34.2 Ah
Charging ratio	With charging station: 10-90 %: 1 hour 10 minutes	Up to 1:18 (e.g. 20 min charge = 6 hours run time with full load)
Number of full charging cycles		Min. 3,000

ENVIRONMENT

Ambient temperature range	+5°C to 40°C (humidity 10-85% non-condensing)	+5°C to 40°C (humidity 10-85% non-condensing)
IP Class	IP20	IP21

COMPLIANCE

Compliance & approvals	EMC: EN61000-6-2 and EN61000-6-4 Cleanroom: Class 4 (ISO 14644-1) Safety standards for industrial vehicles: CE, EN1525, ANSI B56.5, RIA15.08, ISO13849-1	EMC: EN61000-6-2, EN61000-6-4, (En12895) Safety standards for industrial vehicles: CE, EN1525, ANSI B56.5, ANSI R15.0 ESD: ESD optional
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COMMUNICATION

WiFi	Dual-band wireless AC/G/N/B	Router: 2.4 GHz 802.11 g/n, 5 GHz 802.11 a/n/ac. Internal computer: 802.11 a/b/g/n/ac
I/Os	USB and Ethernet	4 digital inputs, 4 digital outputs (GPIO), 1 Ethernet port, 1 Auxiliary emergency stop

SENSORS

SICK safety laser scanners	2 pcs. S300 (front and back) for 360° protection around robot	(2 pcs.) SICK NanoScan3 safety system for 360° visual protection around robot
3D camera	2 pcs. 3D camera Intel RealSense™ Detects objects 50 mm - 1800 mm in height in front of the robot	(2 pcs.) Intel RealSense D435. FoV: Detects objects 1800 mm high at a distance of 1200 mm in front of the robot. 114° total horizontal view.
Proximity sensors		8 pcs.

Specifications may vary based on local conditions and application setup.

MiR 600

MiR 1350

DESIGNATED USE

Collaborative mobile robot	For internal transportation of heavy loads and pallets within the industry and logistics	For internal transportation of heavy loads and pallets within the industry and logistics
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DIMENSIONS

Length	1350 mm / 53.1 in	1350 mm / 53.1 in
Width	910 mm / 35.8 in	910 mm / 35.8 in
Height	322 mm / 12.7 in	322 mm / 12.7 in
Clearance from ground	30 mm / 1.2 in	30 mm / 1.2 in
Weight (without load)	229 kg / 504 lbs	233 kg / 513 lbs
Load surface	1300 x 900 mm / 51.2 x 35.4 in	1300 x 900 mm / 51.2 x 35.4 in

COLOR

RAL color	RAL 7011 / Iron Grey	RAL 9005 / Jet Black
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PAYLOAD

Robot payload	600 kg / 1322 lbs	1350 kg / 2976 lbs
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SPEED AND PERFORMANCE

Active operation time with max. payload.	8.33 hours	6.75 hours
Active operation time without payload.	10.75 hours	9.80 hours
Maximum speed	2.0 m/s (7.2 km/h)	1.2 m/s (4.3km/h)
VL Marker accuracy	Position (center of robot): +/- 2 mm / 0.08 in	Position (center of robot): +/- 2 mm / 0.08 in
Traversable gap and sill tolerance	29 mm / 1.1 in	29 mm / 1.1 in

POWER

Battery	Li-NMC, 48 V, 34.2 Ah	Li-NMC, 48 V, 34.2 Ah
Charging ratio	Up to 1:12 (e.g. 30 min charge = 5.45 hours run time)	Up to 1:12 (e.g. 30 min charge = 6.15 hours run time)
Cycle times	3,000	3,000

ENVIRONMENT

Ambient temperature range	+5°C to 40°C (humidity 10-85% non-condensing)	+5°C to 40°C (humidity 10-85% non-condensing)
IP Class	IP52	IP52

COMPLIANCE

Compliance & approvals	EMC: EN61000-6-2, EN61000-6-4, (En12895) Safety standards for industrial vehicles: CE, EN1525, ANSI B56.5, ISO3691-4, RIA15.08, ISO13849-1 Safety functions: 12 safety functions according to ISO3691-4	EMC: EN61000-6-2, EN61000-6-4, (En12895) Safety standards for industrial vehicles: CE, EN1525, ANSI B56.5, ISO3691-4, RIA15.08, ISO13849-1 Safety functions: 12 safety functions according to ISO3691-4
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COMMUNICATION

WiFi	Dual-band wireless AC/G/N/B	Dual-band wireless AC/G/N/B
I/Os	4 digital inputs, 4 digital outputs, 1 Ethernet port with Modbus protocol	4 digital inputs, 4 digital outputs, 1 Ethernet port with Modbus protocol

SENSORS

SICK safety laser scanners	2 pcs microScan3 (front and rear) for 360° visual protection around robot	2 pcs microScan3 (front and rear) for 360° visual protection around robot
3D camera (2 pcs.)	Intel RealSense D435. FoV: Detects objects 1800 mm high at a distance of 1200 mm in front of the robot. 114° total horizontal view. Ground view, minimum distance from robot: 250 mm	Intel RealSense D435. FoV: Detects objects 1800 mm high at a distance of 1200 mm in front of the robot. 114° total horizontal view. Ground view, minimum distance from robot: 250 mm
Proximity sensors	8 pcs	8 pcs



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