



MiR250

About MiR250

Highly agile for challenging environments:

Small footprint of 580 x 800 mm and a height of only 30 centimeters for driving in narrow spaces

Increases your productivity:

Able to move as much as 250 kg with a speed of 2 meters/second, and able to work 24/7 with the option for fast battery swap.

Improves your workplace safety

Safe daily operation with autonomous navigation, and designed to comply with latest safety standards

Easy to maintain

The MiR250 is constructed for long lifetime and is easy serviceability



Certifications

ESD optional
Clean Room optional
CE certified optional

MiR250 Demo



Specifications

Dimensions		MiR250
Length		800 mm 31.5 in
Width		580 mm 22.8 in
Height		300 mm 11.8 in
Ground Clearance		25-28 mm 0.9-1.1 in
Weight without load		97 kg 214 lbs
Performance		
Maximum speed		2.0 m/s
Payload		250 kg 550 lbs
Operational corridor width		With default setup: 1,450 mm 57 in With MiR250 Dynamic default setup: 1,300 mm 51.2 in With improved setup: 850 mm 67 in
Accuracy, docking to VL marker		± 3 mm 0.12 in on X-axis. ± 3 mm 0.12 in on Y-axis
Traversable gap tolerance		Up to 20 mm 0.79 in
Maximum incline/decline		± 5% at 0.5 m/s
Power		
Battery type:		Li-NMC, 47.7 V, 34.2 ah
Charging ratio		Up to 1:16 (10 min. Charging gives 2 h 40 min runtime with max. Payload)
Number of full charging cycles		Min. 3,000 cycles



Specifications

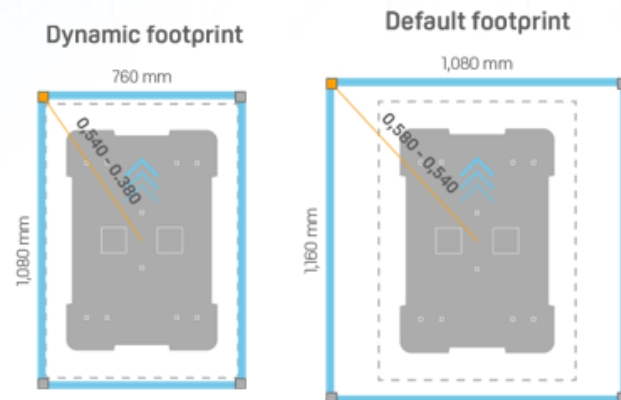
Environment		
Ambient temperature range, operation	5-40°C 41-104° F	
Humidity	10-95% mpm-condensing	
IP rating	IP 21	
Compliance		
EMC	EN61000-6-2, EN61000-6-4 (EN12895)	
Safety standards for industrial vehicles	CE*, EN1525, ANSI B56.5, ANSI R15.08	
Safety functions	Eight safety functions according to ISO 13849-1. The robot stops, if a safety function is triggered	
Sensors		
SICK safety laser scanners	2 pcs, nanoScan 3 (front and rear) give 360° visual protection around the robot	
3D cameras	2 pcs. 3D camera Intel RealSense D435	

*MiR250 Dynamic is delivered without CE



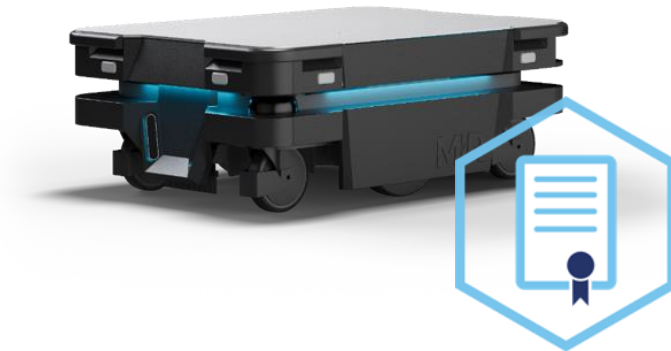
MiR250 – options

Challenged by limited space? Boost agility with MiR250 Dynamic



- MiR250 Dynamic is another version of MiR250 with the possibility to modify settings that enables it to drive closer to objects.
- Subject to risk assessment, the MiR250 Dynamic can typically be used for driving in narrow corridors, doors and other spaces.
- The MiR250 Dynamic is not CE marked and comes with a DoI.

Right for your environments



You have the option to get a MiR250 version that is

- **ESD Approved**
- **Clean Room ISO class 4**

Standard top module: MiR Shelf Carrier 250

MiR Shelf Carrier 250 is an anchoring device that enables the robot to lock to carts and shelves, move them, and deliver them.

- Automates internal transportation of goods
- Can be deployed to different tasks and applications
- Extremely stable and safe transportation in highly dynamic environments
- Requires no changes to existing facility



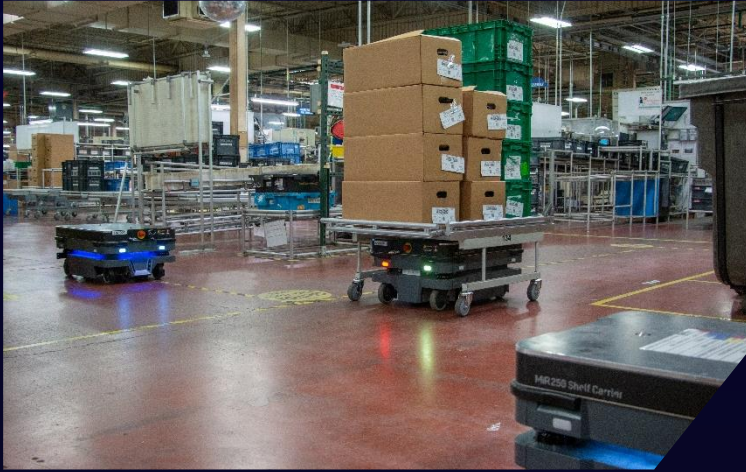
Standard top module: MiR Hook 250

MiR Hook 250 enables the robot to pick-up, transport and deliver carts. MiR Hook 250 is a towing solution that makes it possible to pick up carts of different heights and move them to a designated position. This is a unique solution from MiR, as it is patented.

- The MiR250 Hook solution has a towing capacity of 500 kg.
- Transports an unlimited number of carts to different destinations
- No need for changing existing carts
- Detects carts via QR codes or April Tags
- Requires no changes to existing facility



MiR250 case stories



Denso

Less than 1 year ROI

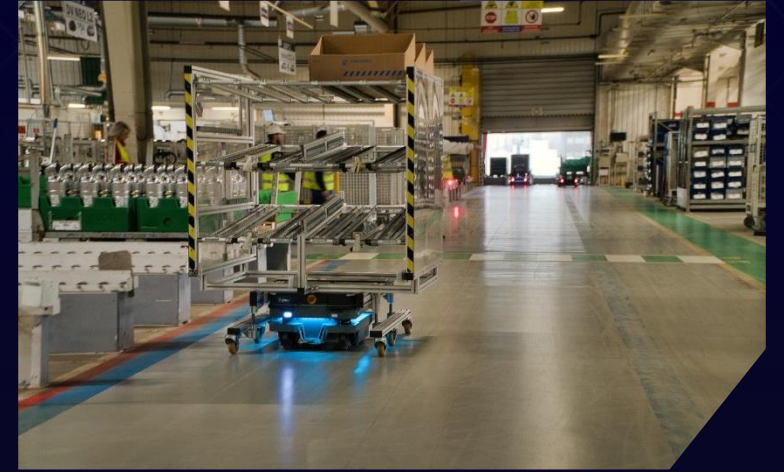
Denso uses a fleet of MiR robots to automate internal logistics between warehouse and production. 6 MiR250 robots have redeployed 6 employees for higher-value activities, improved workplace ergonomics and offer a ROI in less than a year.



Valeo

Help solving issues with labor shortage

Valeo has deployed MiR robots to increase the efficiency of its internal transportation processes, as the company was challenged to find staff for transportation tasks. MiR robots and the optimization of internal transport have significantly improved process efficiency and allowed for higher flexibility to be achieved.



Forvia

Fully automated workflows in dynamic environments

Forvia uses a fleet of MiR250 and MiR600 robots to automate several processes between warehouse and production, and production and end of line. The robot drives in 24/7 operation, 7 days a week.



Summary: Why MiR250?

Best value for money in the market with the highest payload compared to footprint

- Increased agility and productivity also in small/narrow areas
- Can work shifts 24/7 for maximum productivity
- Optimized usability for optimum uptime
- Can be used in cleanroom and ESD environments
- Highly skilled workers can attend more valuable activities