

KONICA MINOLTA

Giving Shape to Ideas

TRANSFORMING THE FUTURE WITH MiR



MiR
MOBILE INDUSTRIAL ROBOTS

THE RISE OF **ROBOTICS**

IS CHANGING THE
WORKPLACE OF
THE FUTURE.





MOBILE ROBOTICS

With automation and drive for innovation, we see robots playing a big part in the way we work. Mobile Robots can be used to address challenges faced by businesses by enabling automation in certain processes.

User-friendly Mobile Robots can enable businesses to drive growth by doing the repeatable tasks or heavier workload. By automation, they can boost productivity while staying competitive.

We work with robotics companies to support the growth of the innovative technologies by harnessing our capabilities of distribution, services and maintenance while our partners continue on the design, manufacture and supply of the robots.

Mobile Industrial Robots (MiR) is a leading manufacturer of Collaborative Mobile Robots (CMR). The autonomous robots help companies increase the efficiency of their operations. These unique, collaborative robots are now used by manufacturers in a wide range of industries and sectors to automate their in-house transportation.

The robot optimises workflows, freeing up staff resources and allowing you to increase productivity while reducing costs. Technology enables the robot to either “identify” its drive area and surroundings or import 2D drawings of the building layout.

Build-in sensors and cameras enable the Mobile Robot to be used for collaborative operation; keeping it running safely in an environment with people as it automatically stops and navigates around obstacles.

The user-friendly software makes it so easy, that anyone can program the robot. The MiR 200 has a carrying capacity of up to 200kg and can tow approximately 500kg. Various custom module solutions can be added.

SAFETY

- Manoeuvres safely around obstacles by using scanners, a 3D camera and ultrasonic sensors
- Equipped with boggie suspension; a chassis serving as a modular subassembly of wheels and axles. This results in improved weight distribution and improved surface traction.



BENEFITS

- Install quickly and easily without changing the workplace layout
- Replace fixed conveyor bands with flexible Mobile Robots
- Diminish the costs and dangers of forklift trucks
- Redeploy workers from pushing a cart to higher-value activities
- Automate material handling and internal logistics
- Enhance production flow and make significant progress
- Solve bottlenecks and minimise non-productive time
- Eliminate idle time between process steps
- Reduce delivery time and improve competitiveness





MiR 200TM

Tech specs

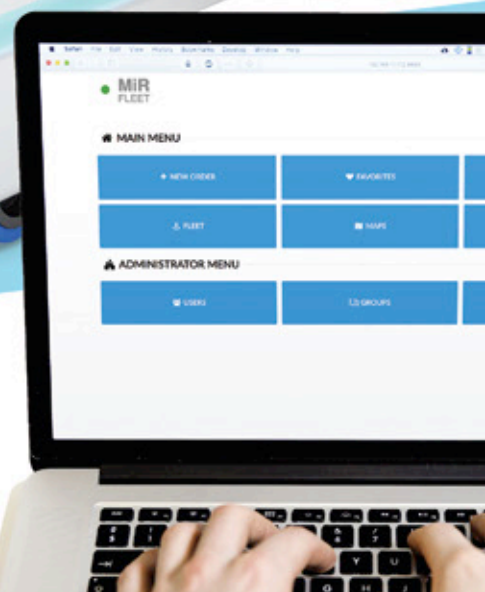
- Payload: 200 kg – 440 lbs
- Towing capacity with hook: 500 kg – 1102 lbs
- Precision:
From reference point: ± 50 mm – ± 2 "
To docking marker: ± 10 mm – ± 0.4 "
- Max speed:
Forward: 1.1 m/s – 3.6 ft/s
Backward: 0.3 m/s – 1 ft/s
- Running time: 10 hours or 15 km – 12.5 mi
- Weight: 62.5 kg – 138 lbs
- Battery charging: 0-80%: 2 hours
- Communication: Wi-Fi, Bluetooth, Ethernet
- Safety: Comply with EN1525 safety regulations, SICK safety lasers, PLd cat. 3
- ESD Approved
- CE Certified
- Clean Room Certified



MiR 100TM

Tech specs

- Payload: 100 kg – 220 lbs
- Towing capacity with hook: 300 kg – 660 lbs
- Precision:
From reference point: ± 50 mm – ± 2 "
To docking marker: ± 10 mm – ± 0.4 "
- Max speed:
Forward: 1.5 m/s – 5 ft/s
Backward: 0.3 m/s – 1 ft/s
- Running time: 10 hours or 20 km – 12.5 mi
- Weight: 62.5 kg – 138 lbs
- Battery charging: 0-80%: 2 hours
- Communication: Wi-Fi, Bluetooth, Ethernet
- Safety: Comply with EN1525 safety regulations, SICK safety lasers, PLd cat. 3
- CE Certified





MiRHook™

Automated in-house transport solutions. Automatic pick-up and drop-off of carts.

MiRCharge™

A fully automatic recharging solution

The MiR mobile robot moves and connects autonomously to the charging station.



MiRFleet™

Fleet management for optimised robot traffic

- ▶ Fast and central configuration of a fleet of robots. Automatic prioritisation and selection of the robot which is best suited for a job, based on position and availability.
- ▶ Planning of the use of different top modules, hook, and other accessories.
- ▶ SMS or e-mail notifications if obstacles prevent the robots from completing the planned jobs.



FOR THE EARTH. FOR THE FUTURE.

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Presence in the region

Bangladesh . Bhutan . Brunei . Cambodia . Indonesia . Laos . Malaysia . Mauritius . Myanmar . Philippines . Singapore . Sri Lanka . Thailand . Vietnam

About Konica Minolta Business Solutions Asia

Konica Minolta Business Solutions Asia is transforming the workplace of the future with its customer-centric solutions and hardware for the digitally connected world. We are committed to create new values for the society with our expertise. From information management to technology enabling tools, the solutions help businesses improve time to information, support mobility, and optimise business processes with workflow automation. Konica Minolta, Inc. has also been named to the Dow Jones Sustainability World Index for five years in a row. For more information, please visit <http://www.konicaminolta.sg/business/>



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