MOBILE ROBOTS

AUTONOMOUS PALLET TRANSPORT MAX. 1.0 T — MiR

THE CUSTOMIZABLE INTRALOGISTICS PLATFORMS

HIGHLY EFFICIENT: MOBILE INDUSTRIAL ROBOTS MIR500 & MIR1000

Are you looking for autonomous and flexible internal transport solutions that act self-sufficiently to take over tedious and time-consuming tasks from your employees? With our driverless transport systems from Mobile Industrial Robots, we automate your internal transports without adjustments to your process management or production layouts. The AGV allow you to deploy personnel to higher value and more demanding work assignments elsewhere more efficiently.

With the robust MiR500 and MiR1000, loads up to 1 ton are picked up autonomously, transported safely and unloaded just in time at the target location. This avoids unnecessary interpersonal contact and significantly minimizes the risk of infections at the site. On request, we can flexibly equip the working base of the AMR platform with different add-on modules from the MiRGo accessories program. For example, we can add pallet forks and conveyors to your MiR500 or MiR1000, or equip it with a robot arm and other attachments for your individual application.

For use in industrial environments, both model types comply with ISO/EN 13849, can be used collaboratively in interaction with humans and meet industrial EMC standards. Use the MiR as a single robot or as a fleet and optionally fully integrated into an Industry 4.0 concept.

TYPICAL SECTORS & INDUSTRIES FOR MIR500 & MIR1000

• **Automotive** • **Logistics** • **Electronics** • **Consumer Goods** • **Medical Technology**

FEATURES, FACTS & BENEFITS
YOUR PRODUCT ADVANTAGES

• **Compact & agile**
  navigation in dynamic settings

• **Collaborative & safe**
  for interaction with people; rerouting of dynamic obstacles, alternative route finding if necessary

• **Contactless intralogistics**
  across departments & the entire site

• **Flexible use**
  no operational modifications required; easy adaptation in case of process changes; standard modules for individualization

• **Easy handling**
  simple setup, fast deployment & intuitive programmability

• **Full transparency**
  user-oriented real-time insights into missions via WIFI

• **Full system compatibility**
  for integration with your ERP/GMS

• **Scalable & fleet ready**
  integration of further AMR via MiR Fleet

OUR FULL PROGRAM, SERVICES, LOCATIONS > MOBILE-ROBOTS.DE

TECHNICAL SPECIFICATIONS MOBILE INDUSTRIAL ROBOTS *

MIR500

Max. load capacity:	500 kg
Empty weight:	226 kg
Speed:	max. 7.2 km/h (2.0 m/s)

MIR1000

Max. load capacity:	1,000 kg
Empty weight:	226 kg
Speed:	max. 4.3 km/h (1.2 m/s)

MIR500 / MIR1000 — COMMON PARAMETERS

Dimensions (LxWxH)	1,350 x 920 x 320 mm
Turning radius:	2,000 mm
Position accuracy:	+/- 5 mm / angle +/-1° (from center)
Battery & Power:	Li-NMC, 48V, 40Ah (lithium ion accumulator)
Performance duration:	8-15 hrs. (depending on application)
Charging time:	60 minutes automatic charging
Battery life	> 1,000 cycles
Communication:	WIFI
Environmental conditions	
Recommended track widths:	Passage min. 2,100 mm / Swiveling min. 2,600 mm / door min. 1,000 mm
Floor:	smooth / dry (small water puddles)
Uneven floor:	< 20 mm
Temperature range:	5 to 40 °C (storage: -10 to 60 °C)
Rel. humidity:	10 to 95% (non-condensing)

Load area/load:	1,300 x 900 mm (LxW) for custom. setup; esp. suitable for standard EUR, industrial EUR 1/2 pallets or similar
Protection class:	IP21
Safety:	CE conformity

5 safety functions according to ISO 13849-1. Robot stops when a safety function is triggered.

Safety system
2x SICK microScan 3 safety laser scanners
for 360° field of view up to 30 m in one plane at 200 mm height
2x 3D camera with Intel RealSense D435
for object detection up to a height of 1,700 mm at a dist. of 950 mm in front of the robot, 114° horizontal view, total.
Ground view, minimum distance from robot: 250 mm
8x proximity sensors
4x emergency stop switch
Acoustic & visual signaling

* Specifications as provided by the manufacturer at the time of printing; subject to change & errors excepted.

OUR COMPREHENSIVE SERVICES AS AMR INTEGRATOR

- Test Installation
- Commissioning
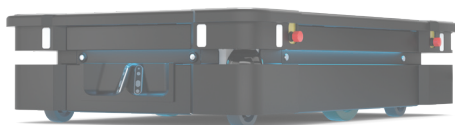- Fleet Management
- Maintenance & Service
- Safety & Consulting
- Education & Training

Find extensive accessories like pallet stations, pallet lift, pallet dispenser, loading station, control elements & software, sensors and much more online.

GET TO KNOW US

As the largest manufacturer-independent integrator of automated guided vehicles in Europe, we deliver the perfect solution for the automation of your intralogistics tasks in industry, service, trade & crafts within the HAHN Robotics Network.

Get your company's logistics future-ready with us!

MOBILE ROBOTS ®

by **HAHN** ROBOTICS - part of the **HAHN**GROUP

next to you at the **HAHN** ROBOTICS locations