



# MOBOT® eRunner MW mobile robot


An autonomous mobile robot with which you will automate internal transport. Ideal for transporting small, light loads. It travels independently along the programmed route.

- ▶ Fast implementation without changes in the workplace
- ▶ Easy to use
- ▶ Works safely with people while carrying your loads
- ▶ Increases production efficiency and reduces costs
- ▶ LMS navigation ensures the autonomy of operation and flexibility of applications
- ▶ The omnidirectional drive ensures freedom of maneuver and reduces the time it takes to complete tasks
- ▶ For hospitals, offices, laboratories, light electronic production




 operating time up to 8 h on a single charge


 payload up to 200 kg

 Wi-Fi communication

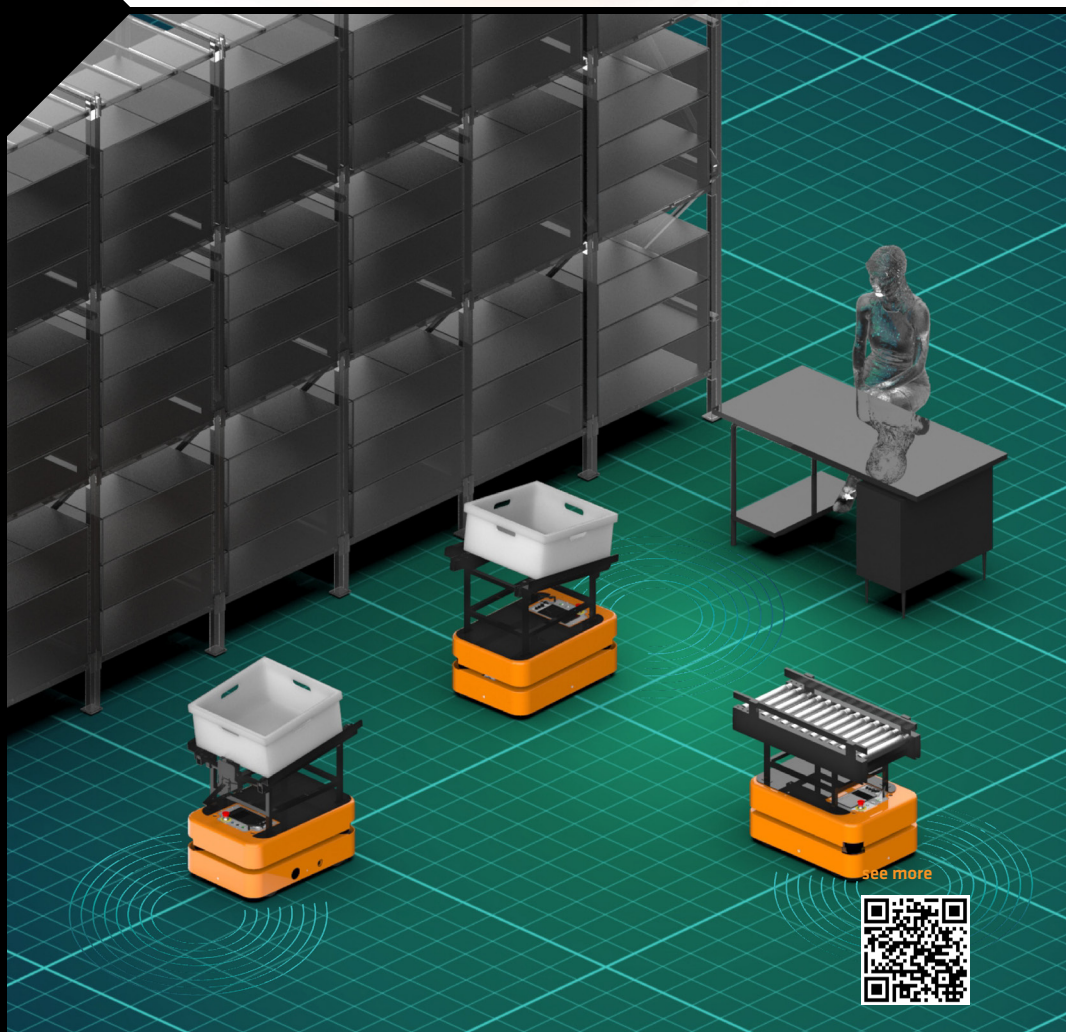
 dimensions  
825 x 546 x 401 mm

 max speed  
3,5 km/h

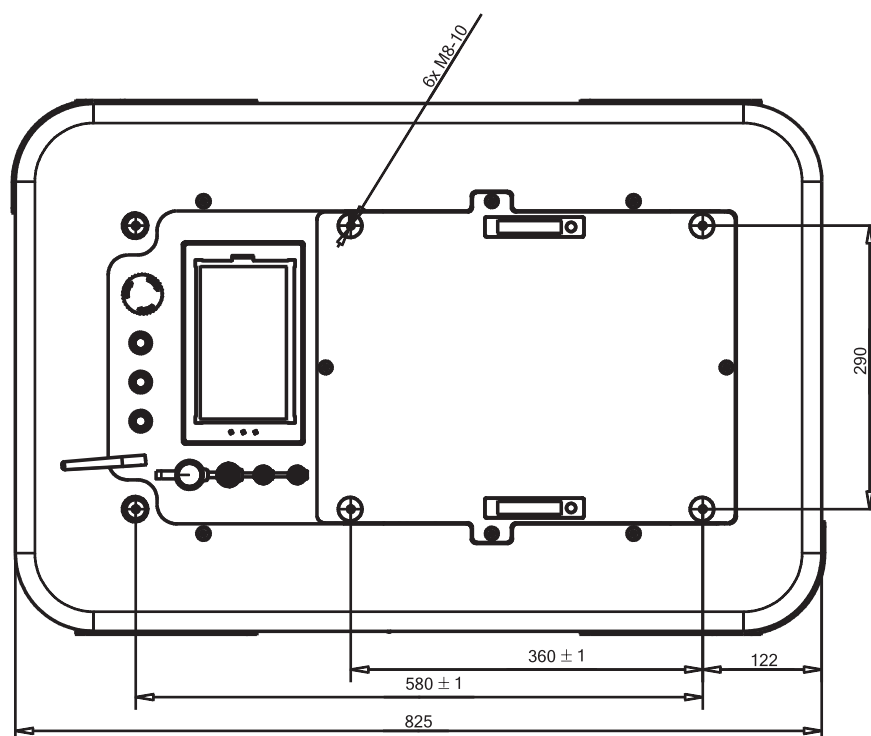
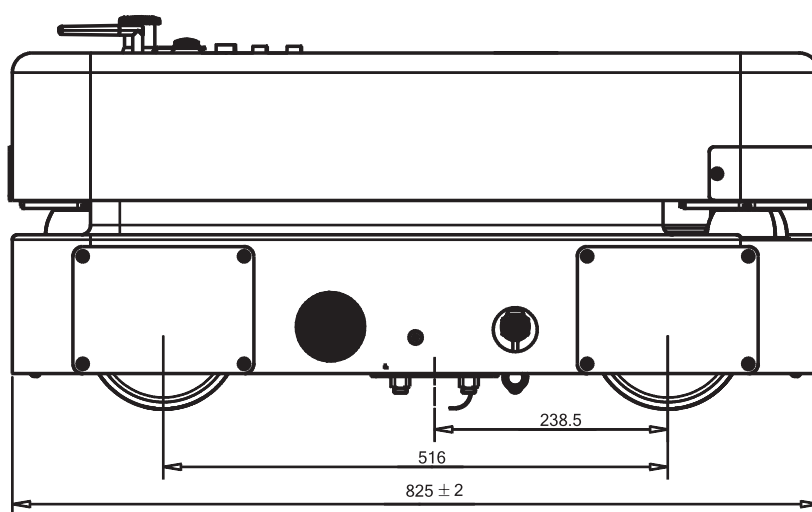
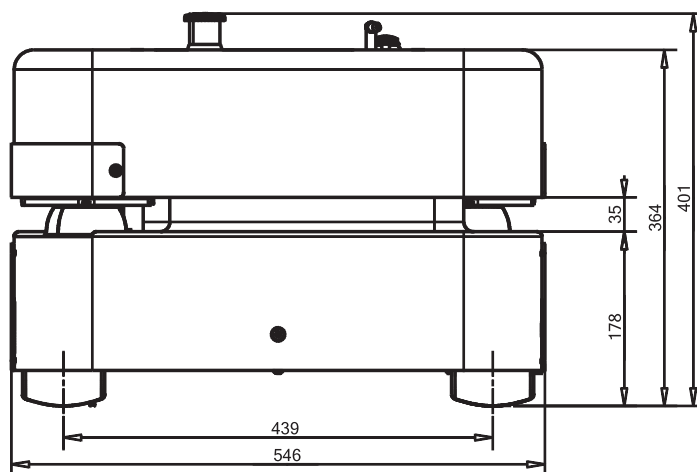
 LMS system,  
line navigation using the  
vision system

 Mecanum wheels  
-movement in any direction

**Intended use:** smaller transport tasks in industry, logistics



Robot type	<b>MOBOT® AGV eRunner MW</b>
<b>Payload and transport method</b>	
Transport method	Fastening the load on the upper surface of the robot with 8 M8 screws
Permissible total weight of the load	200 kg
<b>Power supply</b>	
Manual battery charging connector	YES (48 V DC, max. 20 A)
Automatic battery charging connector	A contact connector mounted on the bottom of the robot enables automatic battery charging during operation
Robot power supply	Battery Li-Ion 1 x 32 Ah / 48 V. optionally 2 x 32 Ah / 48 V
Charger	- Standard 20 A quick charger connected manually via connector - Optional contact module for automatic charging
Operating time at full load	~ 8 h
Operating time in standby mode	~ 40 h
Battery charging time	~ 1,5 h (for 1 battery) ~ 3,5 h (for 2 batteries)
<b>Speed and performance</b>	
Maximal speed	3,5 km/h
Nominal power	1000 W
Movement directions	Possibility of riding in all directions thanks to Mecanum wheels
Turning radius	Possibility of turning in place
Maximum surface slope	Restricted by the allowed approach angle of the robot
<b>Navigation</b>	
Navigation	Natural and intelligent navigation using the LMS * Navigating the line using a vision system * LMS - laser navigation system
<b>Communication</b>	
Communication	2.4 GHz Wi-Fi, optional 2.4 GHz industrial radio module (RS232)
Communication connector	- Ethernet RJ45 - communication with PC, MODBUS TCP / IP - I / O switch: 24 VDC supply output (max. 2 A) + 2 inputs + 2 out (max. 0.5A) + CAN - Optional power connector: 24 VDC power supply output (max. 10A) + 2 power outputs (max. 10 A) - Optional external safety circuit connector
<b>Drive and control</b>	
Drive	4 x DC servo motor (brushless), wheels diameter 156,5 mm
Control and steering	- 1 x 7 "touch operator panel - 1 x emergency stop - 1 x emergency stop reset confirmation button - 1 x power switch - 1 x function button - 1 x USB connector - 1 x Ethernet connector
<b>Sensors</b>	
Sensors	- 2 x vision system for tracking the line - 2 x 2D laser scanner with security function
Signaling	1 x buzzer - 1 x speaker (voice / music messages) - 4 x direction indicator
<b>Environment</b>	
Operating temperature range	5 ÷ 45 °C
Humidity range	< 80 %, no condensation
Protection degree	IP30
The intensity of external light	< 1500 lx
<b>Dimensions and weight</b>	
Dimensions (L x W x H)	825 x 546 x 401 mm
Total weight (with batteries)	~ 120 kg



All dimensions are approximate values and can change.

## Accessories



### **Adapter for transporting boxes**

A special adapter ensures convenient transport of boxes and small items. The details are placed at the right height, ergonomic for the user. This solution maximizes efficiency, optimizes material flow, and allows better use of available space.



### **Adapter with automatic rollers**

Designed for transporting various types of containers, packages. The system consists of an automatic roller feeder attached to an AGV robot using a special adapter. The rollers are driven by motors powered by robot batteries and ensure a fast and smooth flow of goods.

This solution maximizes efficiency, optimizes material flow, and allows better use of available space.