



MOBOT® AGV eRunner (003) mobile robot


A mobile robot used to automate internal transport and transport small, light loads. Automatically moves along the route.


- ▶ Quick implementation without changes in the workplace
- ▶ Works safely with people while carrying your loads
- ▶ Increases production efficiency and reduces costs
- ▶ LMS navigation ensures autonomy of operation and flexibility of applications
- ▶ For hospitals, offices, laboratories, light electronic production




 operating time up to 8 h on a single charge

 payload up to 100 kg

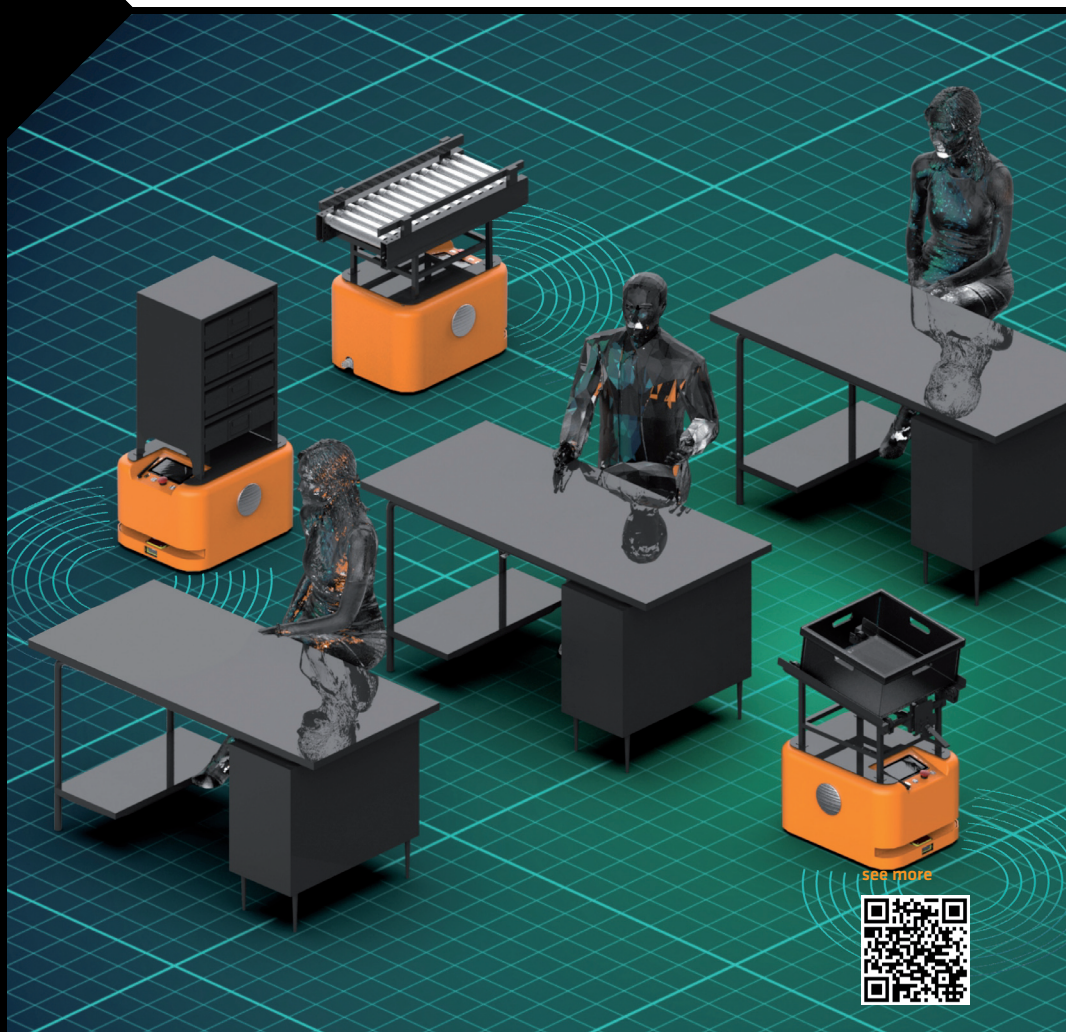
 Wi-Fi communication

 dimensions
623 x 492 x 375 mm

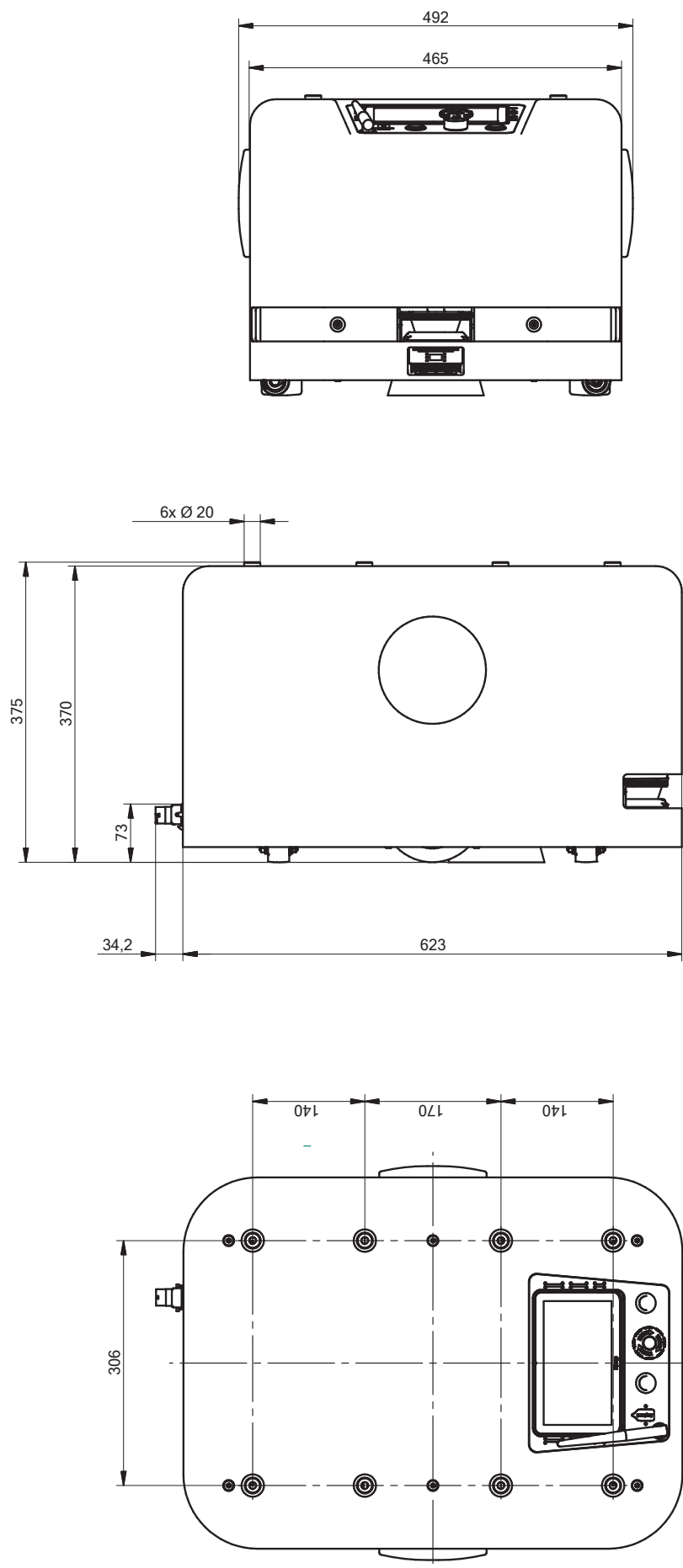
 max speed
3 km/h

 LMS system,
line navigation using the
vision system

Intended use: smaller transport tasks in industry and logistics



Robot type	MOBOT® AGV eRunner (003)
Payload and transport method	
Transport method	Fastening the load on the upper surface of the robot with 8 M10 screws
Permissible total weight of the load	100 kg
Power supply	
Manual battery charging connector	YES (24 V DC, max. 16 A)
Automatic battery charging connector	A contact connector mounted on the bottom of the robot enables automatic battery charging during operation
Robot power supply	2 x traction battery 36 Ah / 24 V
Charger	16 A / 24 V charger connected manually
Operating time at full load	~ 8 h
Operating time in standby mode	~ 40 h
Battery charging time	~ 2,5 h
Speed and performance	
Maximal speed	3,0 km/h
Nominal power	500 W
Movement directions	Move forward, turn
Turning radius	The possibility of turning back in place
Maximum surface slope	Robot designed for driving on a flat surface
Navigation	
Navigation	- LMS laser, intelligent and autonomous navigation * - Vision system for precise positioning * LMS - laser navigation system
Communication	
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 * * option of connecting an optional I / O expansion module
Drive and control	
Drive	2x BLDC motor, wheels diameter 140 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
Sensors	
Sensors	- 1 x vision system for tracking the line - 1 x 2D laser scanner with security function
Signaling	- 1 x buzzer - 1 x speaker (voice / music messages) - 2 x direction indicator
Environment	
Operating temperature range	+5 - 45 °C
Humidity range	< 80 %, no condensation
Protection degree	IP30
The intensity of external light	< 1500 lx
Dimensions and weight	
Dimensions (L x W x H)	623 x 492 x 375 mm
Total weight (with batteries)	~ 60 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.

Adapter with rack

Special adapter with a rack suitable for transporting small items such as PCBs, electronic components, cardboard boxes, etc. The rack has retractable shelves placed at the appropriate height and position, providing the user with ergonomic access. This solution maximizes efficiency, optimizes material flow, and allows better use of available space.