

AUTONOMOUS MOBILE ROBOT (AMR)

RB-KAIROS

READY TO INTEGRATE A
UNIVERSAL ROBOTS eSERIES ARM
(UR5e / UR10e / UR16e)



INDUSTRIAL APPLICATIONS



LOGISTICS



GOODS TRANSPORT



R&D



RB-KAIROS

AMR FOR INDUSTRIAL APPLICATIONS

The **RB-KAIROS** Autonomous Mobile Robot is extremely useful for indoor industrial applications. With a payload capacity of up to 250 kg, it is ideal for automating the transport of goods.

RB-KAIROS is a robust AMR due to its steel design and especially agile thanks to the omnidirectional kinematics that allows the robot to move in any direction, navigating faster and safer through environments with obstacles.

INCLUDED COMPONENTS

- CPU i7
- Battery UN38.3 - 48V@58Ah
- 5G Router
- IMU VectorNav
- RGBD camera Intel D435f
- Safety Pack 360°
 - » 2D Safety LiDARs + Safety PLC
- Mecanum standard wheels
 - » Payload: **100 kg**
- [Charging Station](#)

OPTIONAL COMPONENTS

- Mecanum high payload wheels
 - » Payload: **250 kg**
- 3D LiDAR:
 - » Robosense Airy
 - » Robosense RS-HELIOS 16P
- 3D SLAM Software Packages
- AI Computing Vision Package
 - » ZED2i camera and GPU

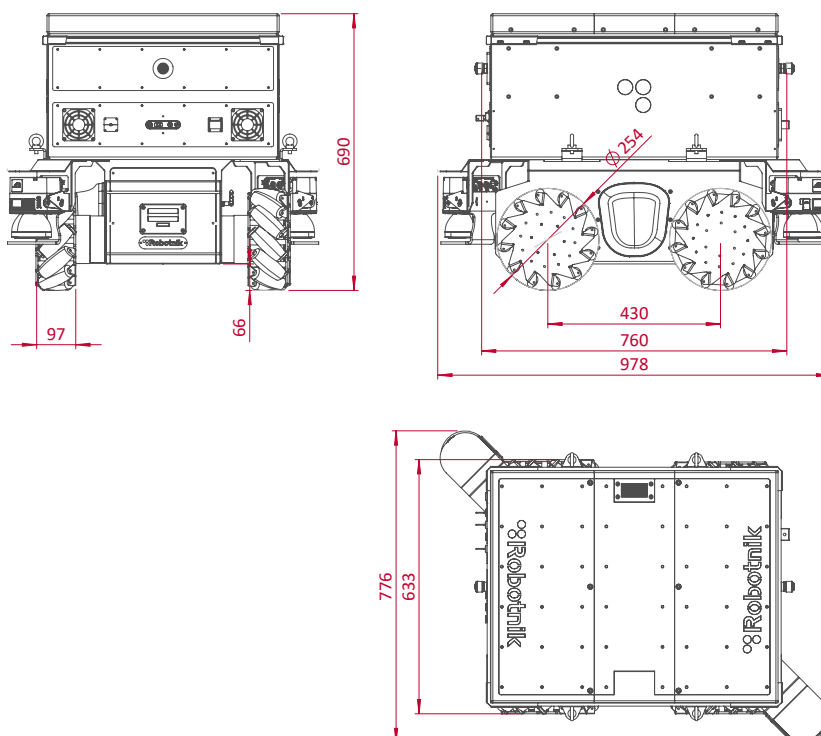
MECHANICAL

Dimensions	978 x 776 x 690 mm
Weight	115 kg
Payload	Up to 250 kg
Speed	1,5 m / s
Environment	Indoor
Enclosure class	IP52
Autonomy	Up to 12 h
Traction motors	4 x 500 W with brake
Kinematics	Omnidirectional
Localization system	SLAM
Temperature range	0°C to + 45°C
Max. slope	15 %

CONTROL

Controller	ROS 2 Architecture
Communication	WiFi 802.11 b/g/n/ac Bluetooth 4.0
Connectivity	USB x3 Ethernet x2 HDMI x1 Power Outputs: » 12V » 24V » VBATT

BLUEPRINTS



Generation ROBOTS

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