

AUTONOMOUS MOBILE ROBOT (AMR)

RB-FIQUIS

HIGH LOAD HIGH MOBILITY
OMNIDIRECTIONAL OUTDOOR AMR
(AUTONOMOUS MOBILE ROBOT)

-  DEVELOPMENT OF OUTDOOR APPLICATIONS
-  AGRICULTURE
-  INDUSTRY
-  SECURITY AND DEFENCE
-  MOBILE MANIPULATION OF HEAVY LOADS



RB-FIQUS

OMNIDIRECTIONAL AMR FOR OUTDOOR ENVIRONMENTS

RB-FIQUS is a general-purpose mobile robot designed for applications in agriculture, industry, defense, security, and inspection. With a load capacity of up to 1,000 kg at the base, high stability, and a highly modular architecture, it is an ideal platform for transport and agricultural tasks, as well as an excellent mobile manipulator for heavy loads in outdoor environments, since it can integrate robotic arms such as the UR20 or UR30, among others. It features three modular, interchangeable batteries with a total capacity of 48VDC@135Ah*, which is especially useful in outdoor scenarios where a charging station is not always available, as it allows carrying additional batteries and swapping them easily before power runs out.

INCLUDED COMPONENTS

- CPU Intel I7
- Safety Pack
 - » 2x 2D safety scanner
 - » Safety PLC
- RGBD camera
- 5G Router
- IMU
- 3x Batteries 48VDC@45Ah (Interchangeable)*
- Charging station

OPTIONAL COMPONENTS

- GPS
- AI+Vision Package
- 3D Localization and Navigation Package

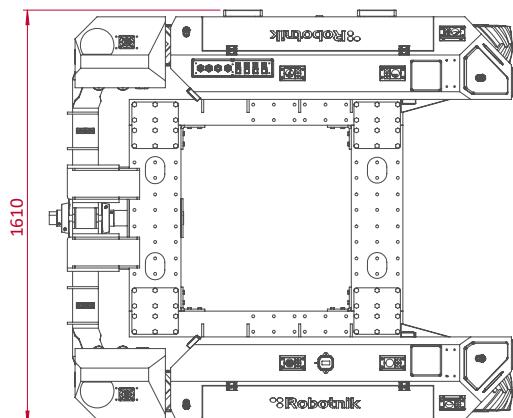
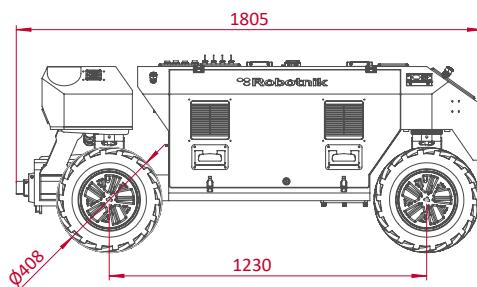
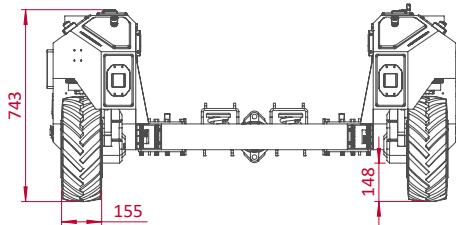
MECHANICAL

Dimensions	1.805 x 1.610 x 743 mm
Weight	450 kg
Payload	Up to 1.000 kg
Speed	1 m/s
Environment	Outdoor
Enclosure class	IP42
Autonomy	Up to 10 h
Traction motors	4 x 750 W with brake
Kinematics	Omnidirectional
Localization system	SLAM / GPS
Temperature range	-10°C to + 45°C
Max. slope	Up to 20%

CONTROL

Controller	ROS 2 Architecture
Communication	WiFi 802.11 a/b/g/n/ac Bluetooth 5.1
Connectivity	USB Ethernet HDMI

BLUEPRINTS



Generation ROBOTS

Brand of **NGX ROBOTICS**



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