

AUTONOMOUS MOBILE ROBOT (AMR)

# RB-FIQUUS

**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-FIQUUS

## OMNIDIRECTIONAL AMR FOR OUTDOOR ENVIRONMENTS

**RB-FIQUUS** is a general purpose mobile robot designed for applications in agriculture, industry, defence, security and inspection. Its load capacity of up to 1.000 kg at the base, its stability and its highly modular architecture, make it an ideal platform for transport or agriculture tasks and a superb mobile manipulator for heavy loads in outdoor environments. The **RB-FIQUUS** can integrate UR20 or UR30 robotic arms among others.

### INCLUDED COMPONENTS

- CPU Intel I7
- Safety Pack
  - » 2x 2D safety scanner
  - » Safety PLC
- RGBD camera
- 5G Router
- IMU
- Battery 48VDC@30Ah
- Charging station

### OPTIONAL COMPONENTS

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

## MECHANICAL

Dimensions	<b>1.805 x 1.610 x 743 mm</b>
Weight	<b>450 kg</b>
Payload	<b>Up to 1.000 kg</b>
Speed	<b>1 m/s</b>
Environment	<b>Outdoor</b>
Enclosure class	<b>IP42</b>
Autonomy	<b>Up to 10 h</b>
Traction motors	<b>4 x 750 W with brake</b>
Kinematics	<b>Omnidirectional</b>
Localization system	<b>SLAM / GPS</b>
Temperature range	<b>5° to + 40°C</b>
Max. slope	<b>Up to 20%</b>

## CONTROL

Controller	<b>ROS 2 Architecture</b>
Communication	<b>WiFi 802.11 a/b/g/n/ac</b> <b>Bluetooth 5.1</b>
Connectivity	<b>USB</b> <b>Ethernet</b> <b>HDMI</b> <b>DC Power Output</b>

## BLUEPRINTS

