Robotnik

MOBILE MANIPULATOR ROBOT (MMR)

RB-FIQUS

AUTONOMOUS **MOBILE MANIPULATOR** (MMR) FOR **AUTOMATED HANDLING & TRANSPORT** IN OUTDOOR **& UNEVEN** TERRAINS

- PICK & PLACE
- MATERIAL HANDLING
- OUTDOOR OPERATIONS



ROS 2™

robotnik.eu

RB-FIQUS

RB-FIQUS+ is an autonomous mobile manipulator designed to automate handling and transport operations in outdoor environments and on uneven surfaces. Engineered to automate heavy-duty tasks in agriculture, defense, or construction, it integrates various Universal Robots cobots on a movable front linear guide (with a dual-arm option), offering maximum precision, adaptability, and reach in the field.

UP TO 720 KG OF PAYLOAD

OUTDOOR ENVIRONMENTS

OMNIDIRECTIONAL KINEMATICS

UP TO 9 H. OF AUTONOMY

REMOTE TURN ON/OFF

SLAM / GPS LOCALIZATION

ARM OPTIONS

UR8 Long | UR12e | UR15 | UR20 | UR30

INCLUDED COMPONENTS

- CPU i7
- 3x Batteries 48VDC@45Ah (Interchangeable)
- 5G Router
- IMU
- RGBD camera
- Safety Pack 360º
  - » 2D Safety LiDARs + Safety PLC
- GPS
- Touch screen

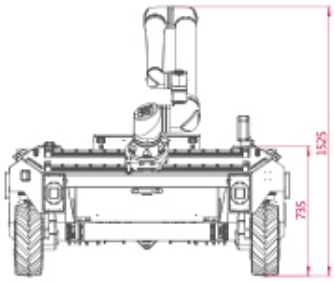
OPTIONAL COMPONENTS

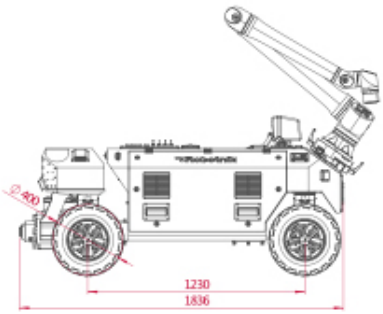
- Stabilizing Legs
- Dual Arm Configuration
- Adjustable Width
- Base station GPS
- 3D LiDAR Robosense Airy
- 3D LiDAR Robosense Airy Lite
- 3D LiDAR Robosense Fairy
- 3D SLAM Software Packages
- AI Computing Vision Package
  - » ZED camera and GPU
- Remote Emergency Stop
- Remote Control with Emergency Stop
- OnRobot VGC10 Gripper
- OnRobot RG2 Gripper
- OnRobot RG6 Gripper
- OnRobot 2FG7 Gripper
- OnRobot VGP30 Gripper
- OnRobot 3FG25 Gripper
- Robotiq 2F-85 Gripper
- Robotiq 2F-140 Gripper
- OnRobot Eyes gripper-mounted camera
- Wireless Charging Station

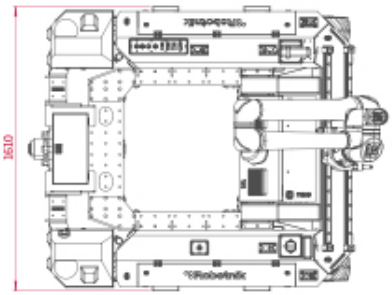
Version	UR8 Long	UR12e	UR15	UR20	UR30
Dimensions (mm)	1.805 x 1.610 x 1.525	1.805 x 1.610 x 1.265	1.805 x 1.610 x 1.364	1.805 x 1.610 x 1.470	1.805 x 1.610 x 1.343
Weight (kg)	740	730	735	750	750
Payload (kg)	710	720	715	700	700
Arm payload (kg)	10	12,5	17,5	25	35
Arm reach (mm)	1.750	1.300	1.300	1.750	1.300
Arm weight (kg)	45	35	40	65	65
Speed (m/s)	1	1	1	1	1
Environment	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor
Enclosure class	IP53	IP53	IP53	IP53	IP53
Autonomy (h)	9	9	9	9	9
Traction Motors (W)	4 x 750	4 x 750	4 x 750	4 x 750	4 x 750
Traction systems	Omnidirectional	Omnidirectional	Omnidirectional	Omnidirectional	Omnidirectional
Localization system	SLAM / GPS	SLAM / GPS	SLAM / GPS	SLAM / GPS	SLAM / GPS
Temperature range (ºC)	-10º to +45º	-10º to +45º	-10º to +45º	-10º to +45º	-10º to +45º
Max. Slope (%)	20	20	20	20	20
Controller	ROS 2 Architecture	ROS 2 Architecture	ROS 2 Architecture	ROS 2 Architecture	ROS 2 Architecture
WiFi	WiFi 802.11 b/g/n/ac	WiFi 802.11 b/g/n/ac	WiFi 802.11 b/g/n/ac	WiFi 802.11 b/g/n/ac	WiFi 802.11 b/g/n/ac
Bluethooth	4.0	4.0	4.0	4.0	4.0
Connectivity	USB, Ethernet, HDMI	USB, Ethernet, HDMI	USB, Ethernet, HDMI	USB, Ethernet, HDMI	USB, Ethernet, HDMI
Power outputs	12 V, 24 V, VBATT	12 V, 24 V, VBATT	12 V, 24 V, VBATT	12 V, 24 V, VBATT	12 V, 24 V, VBATT

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UR8 LONG

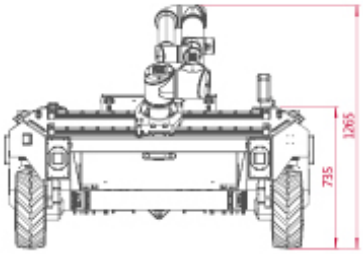


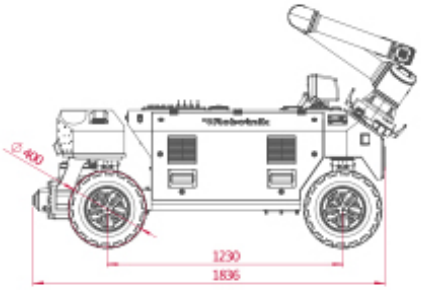


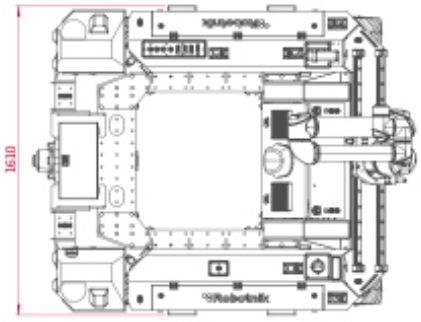


RB-FIQUS

UR12e

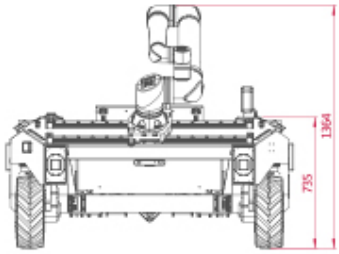


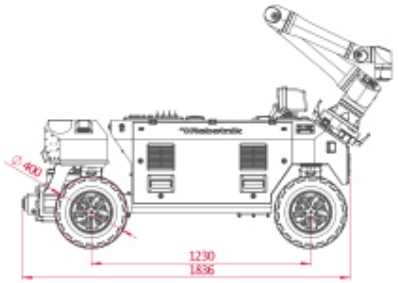


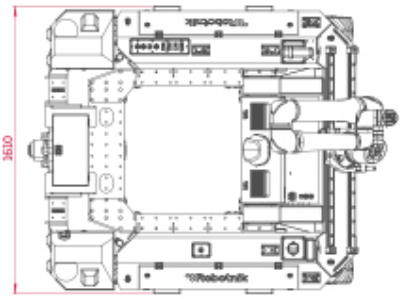


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UR15

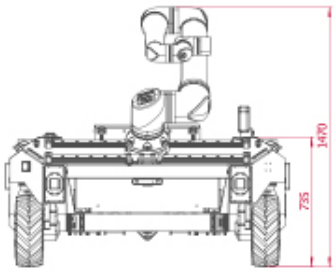


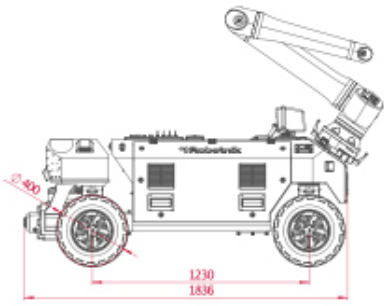


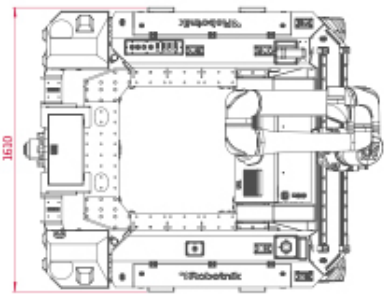


RB-FIQUS

UR20







RB-FIQUS

UR30

