

MOBILE MANIPULATOR ROBOT (MMR)

RB-ROBOUT



AUTONOMOUS & COLLABORATIVE
**MOBILE MANIPULATOR (MMR) FOR
LONG REACH & HEAVY PAYLOADS**

-  PICK & PLACE
-  MATERIAL HANDLING
-  GRINDING AND POLISHING
-  WELDING

RB-ROBOUT

RB-ROBOUT+ is an omnidirectional Autonomous Mobile Manipulator designed to automate heavy-duty handling operations with workpieces of up to 35 kg. It combines the RB-ROBOUT mobile platform with Plug and Play integration of Universal Robots arms (UR8 Long, UR12e, UR15, UR20, or UR30), providing a versatile and modular solution for industrial tasks such as pick & place, welding, grinding, or polishing.

 UP TO 800 KG OF PAYLOAD	 INDOOR ENVIRONMENTS	 OMNIDIRECTIONAL KINEMATICS
 UP TO 8 H. OF AUTONOMY	 REMOTE TURN ON/OFF	 SLAM / MAGNETIC GUIDE NAVIGATION

ARM OPTIONS

 UR8 Long	 UR12e	 UR15	 UR20	 UR30
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INCLUDED COMPONENTS

- CPU i7
- Battery 48VDC@100Ah
- 5G Router
- IMU
- Front & Back RGBD camera
- Safety Pack 360°
 - » 2D Safety LiDARs + Safety PLC
- Mecanum omnidirectional wheels
 - » Payload: **1.000 kg**
- [Charging Station](#)

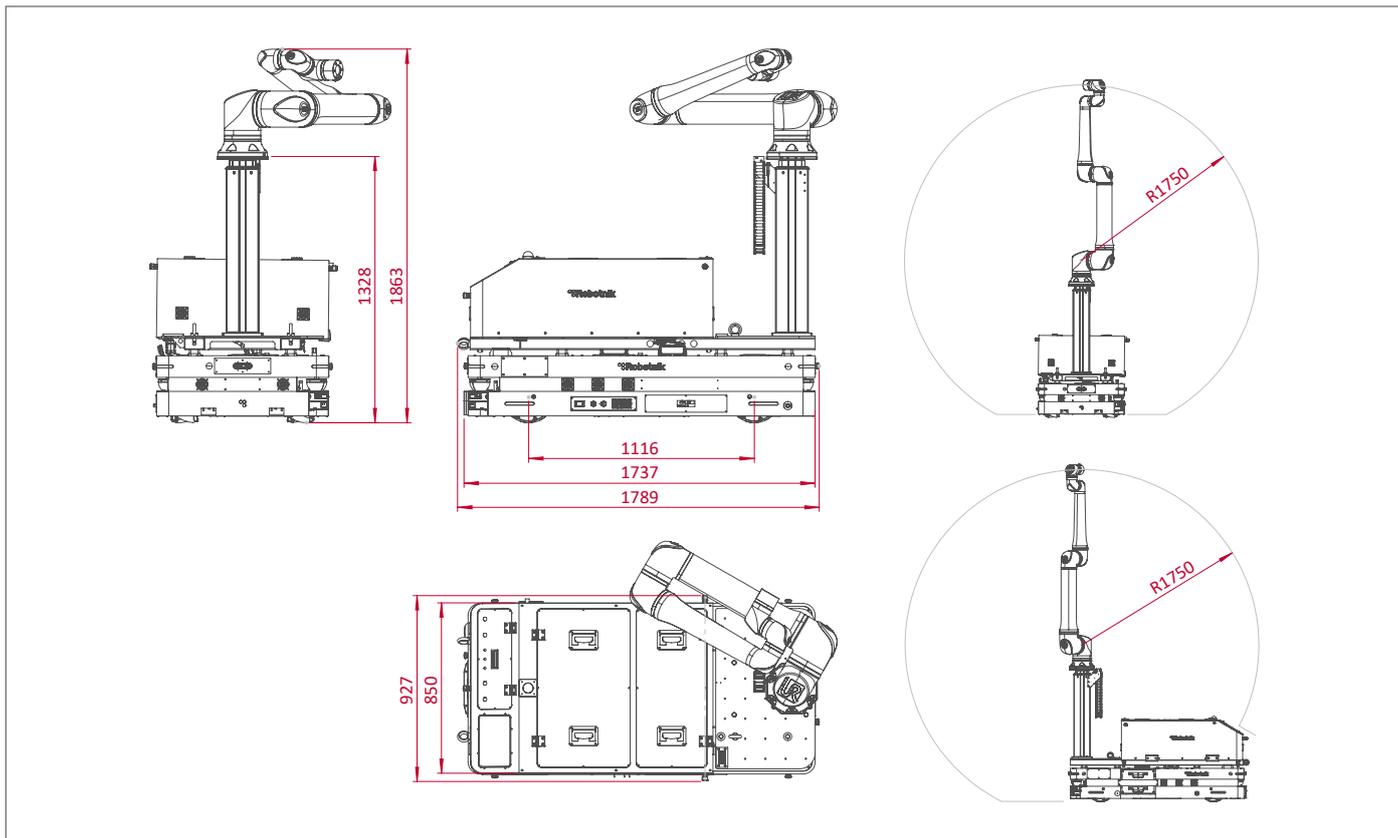
OPTIONAL COMPONENTS

- Magnetic guide navigation
- HBC remote wireless emergency stop
- [SIEMENS SIMOVE Carrier Control](#)
- 3D LiDAR Robosense Airy
- 3D SLAM Software packages
- AI Computing Vision Package
 - » ZED camera and GPU
- Lifting column 1.200 mm for UR8L / UR12e / UR15
- Lifting column 800 mm for UR20 / UR30
- OnRobot VGC10 gripper
- OnRobot RG6 gripper
- OnRobot RG2 gripper
- OnRobot 2FG7 gripper
- Robotiq 2F-85 gripper
- Robotiq 2F-140 gripper
- OnRobot Eyes gripper camera

Version	UR8 Long	UR12e	UR15	UR20	UR30
Dimensions (mm)	1.789 x 927 x 1.863	1.789 x 927 x 1.560	1.789 x 927 x 1.758	1.789 x 927 x 1.863	1.789 x 927 x 1.785
Weight (kg)	645	635	640	665	665
Payload (kg)	755	765	760	735	765
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	1,1	1,1	1,1
Environment	Indoor	Indoor	Indoor	Indoor	Indoor
Enclosure class	IP41	IP41	IP41	IP41	IP41
Autonomy (h)	8	8	8	8	8
Traction Motors (W)	4 x 600				
Traction systems	Omnidirectional	Omnidirectional	Omnidirectional	Omnidirectional	Omnidirectional
Localization system	SLAM / GPS / Magnetic guidance				
Temperature range (°C)	0° to +45°				
Max. Slope (%)	11	11	11	11	11
Controller	ROS 2 Architecture				
WiFi	WiFi 802.11 b/g/n/ac				
Bluetooth	4.0	4.0	4.0	4.0	4.0
Connectivity	USB, Ethernet, HDMI				
Power outputs	12 V, 24 V, VBATT				

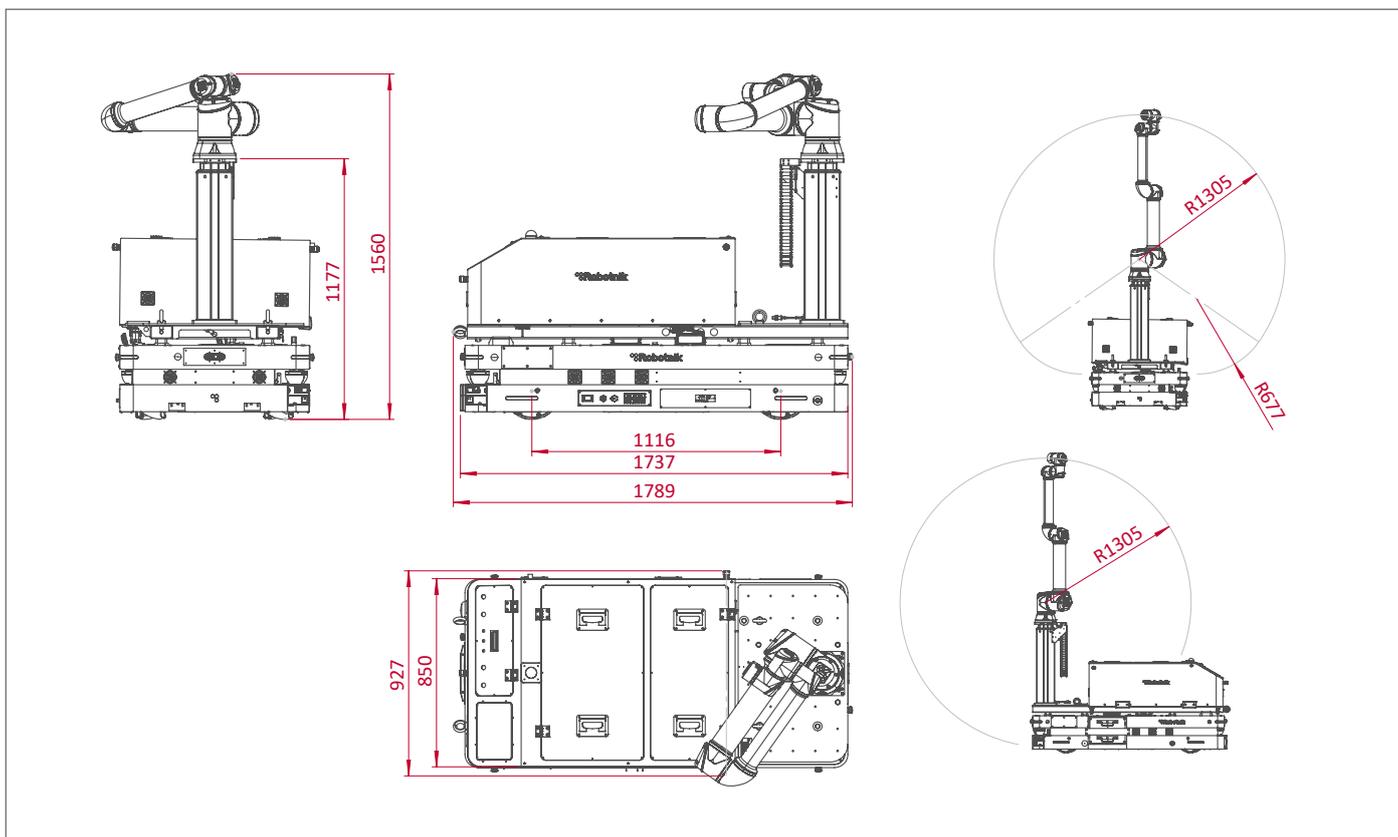
RB-ROBOUT

UR8 LONG



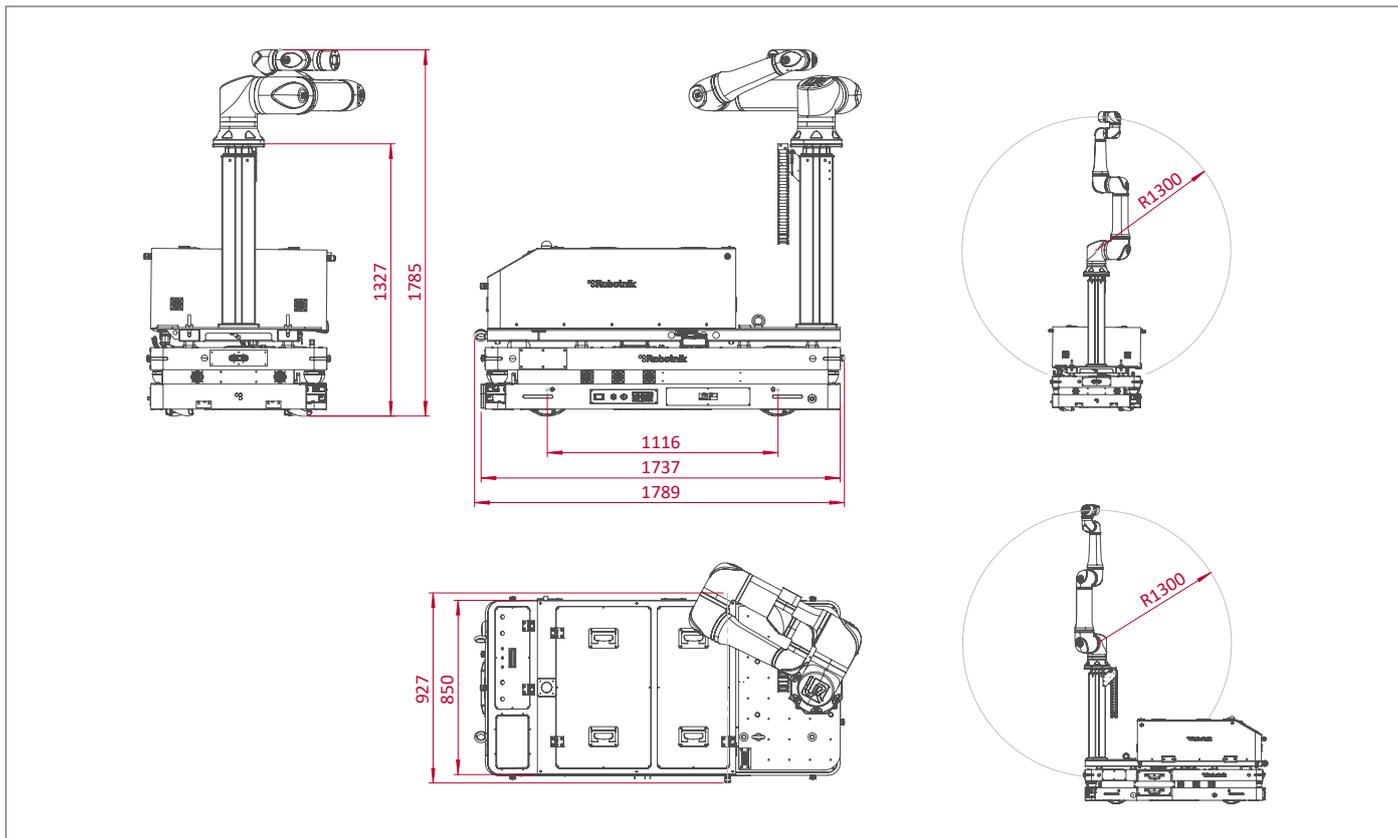
RB-ROBOUT

UR12e



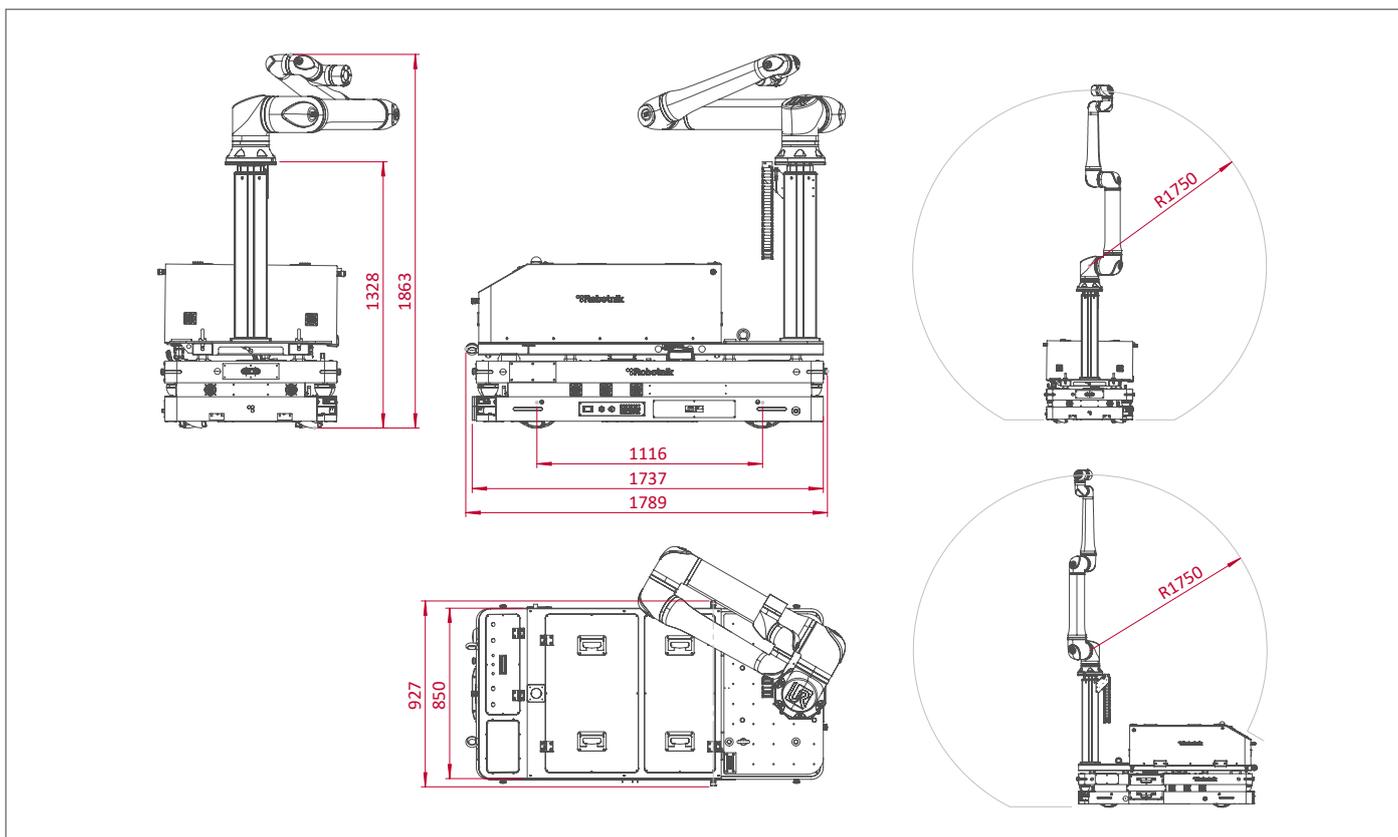
RB-ROBOUT

UR15



RB-ROBOUT

UR20



RB-ROBOUT

UR30

