

MOBILE MANIPULATOR ROBOT (MMR)

RB-SUMMIT

MOBILE MANIPULATOR
FOR **RESEARCH** & **DEVELOPMENT**

 RESEARCH & DEVELOPMENT

 AGRICULTURE

 CONSTRUCTION

 PICK & PLACE



RB-SUMMIT⁺

RB-SUMMIT⁺ is an autonomous mobile manipulator designed for research and development applications in both indoor and outdoor environments. It combines the mobility of the RB-SUMMIT platform with the flexibility of Kinova robotic arms, enabling precise handling of objects up to 4 kg. This versatile, modular solution is ideal for inspection, agriculture, pick & place or sorting and quality control.

 UP TO 40 KG OF PAYLOAD	 OUTDOOR ENVIRONMENTS	 SKID STEERING
 UP TO 5 H. OF AUTONOMY	 REMOTE TURN ON/OFF	 SLAM NAVIGATION

ARM OPTIONS

 GEN 3 LITE	 GEN 3 - 6 DOF	 GEN 3 - 7 DOF
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INCLUDED COMPONENTS

- CPU i7
- Battery UN38.3 - 48VDC@15Ah
- 5G Router
- IMU
- RGBD camera
- Pack 2D LiDARS - 276°
- [Charging Station](#)

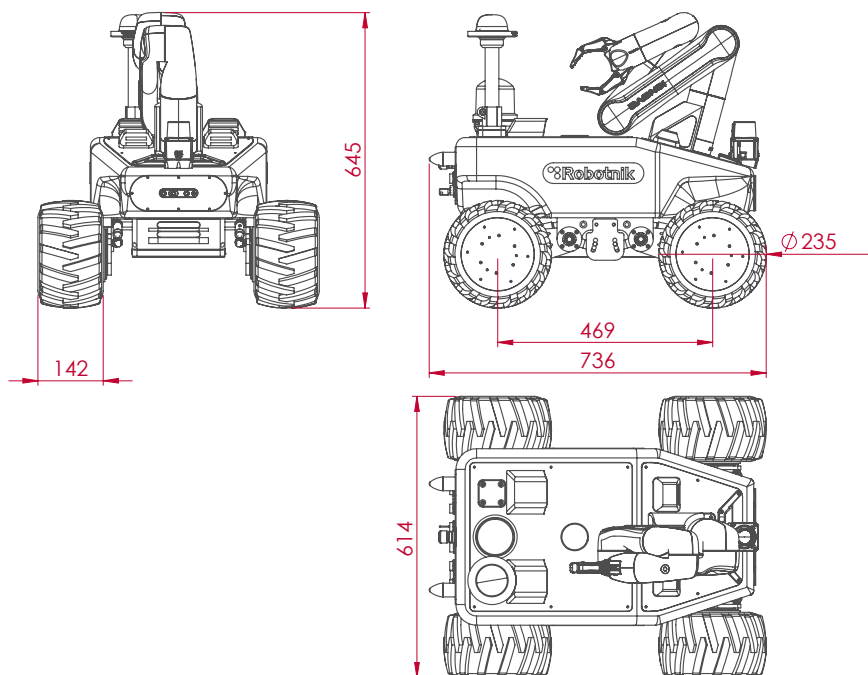
OPTIONAL COMPONENTS

- GPS
- GPS + Base station GPS
- 3D LiDAR Robosense Airy
- 3D LiDAR Robosense RS-HELIOS 16P
- 3D SLAM Software Packages
- AI Computing Vision Package
 - » ZED camera and GPU
- Robotiq 2F-85 gripper
- Robotiq 2F-140 gripper

Version	GEN 3 LITE	GEN 3 - 6 DOF	GEN 3 - 7 DOF
Dimensions (mm)	736 x 614 x 645	736 x 614 x 645	736 x 614 x 645
Weight (kg)	70	72	73
Payload (kg)	45	43	42
Arm payload (kg)	0,5	4	4
Arm reach (mm)	760	891	902
Arm weight (kg)	5,5	7,2	8,2
Speed (m/s)	2,5	2,5	2,5
Environment	Indoor / Outdoor	Indoor / Outdoor	Indoor / Outdoor
Enclosure class	IP22	IP22	IP22
Autonomy (h)	5	5	5
Traction Motors (W)	4 x 500 with brake	4 x 500 with brake	4 x 500 with brake
Traction systems	Skid steering	Skid steering	Skid steering
Localization system	SLAM	SLAM	SLAM
Temperature range (°C)	-10° to +45°	-10° to +45°	-10° to +45°
Max. Slope (%)	80	80	80
Controller	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
Bluetooth	4.0	4.0	4.0
Connectivity	USB, Ethernet, HDMI	USB, Ethernet, HDMI	USB, Ethernet, HDMI
Power outputs	5V, 12V, VBATT	5V, 12V, VBATT	5V, 12V, VBATT

RB-SUMMIT

GEN 3 LITE



RB-SUMMIT

GEN 3 - 6/7 DOF

