

MOBILE MANIPULATOR ROBOT (MMR)

RB-SUMMIT

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

 RESEARCH & DEVELOPMENT

 AGRICULTURE

 CONSTRUCTION

 PICK & PLACE



RB-SUMMIT⁺

MOBILE MANIPULATOR RESISTANT AND VERSATILE

RB-SUMMIT⁺ is a highly mobile, all-terrain modular base that can operate in indoor environments, but especially outdoors. Therefore, this MMR is suitable for automating tasks of different nature in sectors such as R&D, agriculture or construction.

INCLUDED COMPONENTS

- CPU Intel i7
- 2D Laser
- RGBD Camera
- 5G Router
- IMU
- Battery UN38.3 - 48VDC@15Ah
- Robotic arm: **Kinova Gen3 Lite**
 - » Payload: **0,5 kg**
 - » Reach: **760 mm**
- Charging station

OPTIONAL COMPONENTS

- GPS
- Base station
- AI+Vision Package
- 3D Localization and Navigation Package
- Robotic arm: **Kinova Gen3 - 6 DOF**
 - » Payload: **4 kg**
 - » Reach: **891 mm**
- Robotic arm: **Kinova Gen3 - 7 DOF**
 - » Payload: **4 kg**
 - » Reach: **902 mm**

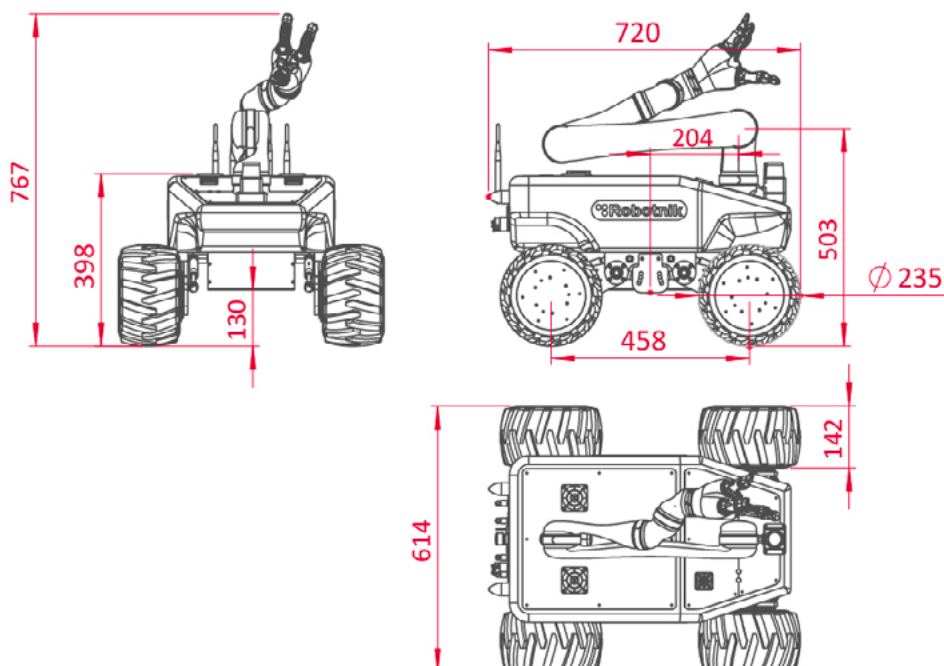
MECHANICAL

Dimensions	720 x 614 x 767 mm
Weight	Platform: 65 kg Arm: 5,4 / 8,2 kg
Payload	Platform: 42 kg Arm: 0,5 / 4 kg
Speed	2,5 m/s
Environment	Indoor / Outdoor
Enclosure class	IP22
Autonomy	Up to 5 h
Traction motors	4 x 500 W with brake
Kinematics	Skid steering
Localization system	SLAM
Temperature range	0°C to + 50°C
Max. slope	80 %

CONTROL

Controller	ROS 2 Architecture
Communication	WiFi 802.11 b/g/n/ac Bluetooth 4.0
Connectivity	USB x1 Ethernet x1 Power Outputs: » 5V » 12V » VBATT

BLUEPRINTS



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