

MOBILE MANIPULATOR ROBOT (MMR)

# RB-KAIROS

COMPLETELY INTEGRATED  
**COLLABORATIVE MOBILE  
MANIPULATOR** (CMM)

READY FOR **INDUSTRIAL TASKS**

 INDUSTRIAL APPLICATIONS

 PICK & PLACE

 METROLOGY

 PART FEEDING

 R&D



# RB-KAIROS

## COLLABORATIVE MOBILE MANIPULATOR FOR INDUSTRIAL APPLICATIONS

**RB-KAIROS+** is an Autonomous Mobile Manipulator extremely useful for industrial applications such as pick and place, part feeding, metrology, quality control, operations on large parts or packaging, cleaning, polishing, screwing, drilling, etc.

### COMPONENTS INCLUDED

- Mecanum standard wheels
  - » Payload: **100 kg**
- CPU Intel i7
- Safety Pack
  - » 2x 2D safety scanner
  - » Safety PLC
- RGBD camera
- 4G Router
- IMU
- Robotic arm: **UR5e**
  - » Payload: **5 kg**
  - » Reach: **850 mm**
- Battery 48VDC@30Ah
- Charging station

### OPTIONAL COMPONENTS

- Mecanum high payload wheels
  - » Payload: **250 kg**
- 5G Router
- AI+Vision Package
- 3D Localization and Navigation Package
- OnRobot VGC10
- OnRobot RG2
- OnRobot RG6
- OnRobot RG2FT
- OnRobot 2FG7
- Robotiq 2F-85
- Robotiq 2F-140
- OnRobot Eyes Camera

## MECHANICAL

Dimensions	<b>978 x 776 x 1.010 mm</b>
Weight	<b>Platform: 115 kg</b> <b>Arm: 25 kg</b>
Payload	<b>Platform: Up to 225 kg</b> <b>Arm: Up to 5 kg</b>
Speed	<b>1,5 m / s</b>
Environment	<b>Indoor</b>
Enclosure class	<b>IP52</b>
Autonomy	<b>Up to 6 h</b>
Traction motors	<b>4 x 500 W with brake</b>
Kinematics	<b>Omnidirectional</b>
Localization system	<b>SLAM</b>
Temperature range	<b>0° to + 50°C</b>
Max. slope	<b>15 %</b>

## CONTROL

Controller	<b>ROS Architecture</b>
Communication	<b>WiFi 802.11 b/g/n/ac</b> <b>Bluetooth 4.0</b>
Connectivity	<b>USB x3</b> <b>Ethernet x2</b> <b>HDMI x1</b> <b>DC Power Output</b>

## BLUEPRINTS

