

# RB-THERON

MOBILE MANIPULATOR ROBOT (MoMa)

**HIGH PRECISION** FOR  
INDUSTRIAL APPLICATIONS

FULL INTEGRATION  
WITH **UR CONTROLLER**



-  INDUSTRIAL APPLICATIONS
-  PICK & PLACE
-  METROLOGY
-  PART FEEDING
-  R&D

# RB-THERON

100 KG OF PAYLOAD AND 6H OF AUTONOMY

**RB-THERON+** is one of the most advanced mobile manipulators on the global market. Thanks to a compact and versatile design, it can operate effectively in areas with narrow hallways, making it particularly useful for industry, laboratories and warehouses.

## COMPONENTS INCLUDED

- CPU Intel i7
- Safety Pack
  - » 2D safety scanner x2
  - » Safety PLC
- RGBD camera
- Robotic arm: UR5e
  - » Payload: 5 kg
  - » Reach: 850 mm
- 5G Router
- IMU
- Battery 48VDC@21Ah
- Charging station

## OPTIONAL COMPONENTS

- Omnidirectional platform
- 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>1.076 x 552 x 655 mm</b>            |
| Weight              | <b>Platform: 160 kg<br/>Arm: 25 kg</b> |
| Payload             | <b>Platform: 100 kg<br/>Arm: 5 kg</b>  |
| Speed               | <b>1,25 m/s</b>                        |
| Environment         | <b>Indoor</b>                          |
| Enclosure class     | <b>IP30</b>                            |
| Autonomy            | <b>Up to 6 h</b>                       |
| Traction motors     | <b>2 x 250 W with brake</b>            |
| Kinematics          | <b>Differential drive</b>              |
| Localization system | <b>SLAM</b>                            |
| Temperature range   | <b>0°C to + 40°C</b>                   |
| Max. slope          | <b>6 %</b>                             |

## CONTROL

|               |   |
|---------------|---|
| Controller    | <b>ROS 2 Architecture</b>                                     |
| Communication | <b>WiFi 802.11 b/g/n/ac<br/>Bluetooth 4.0</b>                 |
| Connectivity  | <b>USB x2<br/>Ethernet x3<br/>HDMI x1<br/>DC Power Output</b> |

## BLUEPRINTS

