

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


RB-THERON+ is a compact and versatile Autonomous Mobile Manipulator designed for indoor pick & place handling applications. Its compact design makes it ideal for operating in narrow corridors such as warehouses, laboratories, and industrial environments. With the integration of the UR5e collaborative arm from Universal Robots, it provides a modular, efficient, and flexible solution that adapts to different workflow requirements.



UP TO 100 KG
OF PAYLOAD




INDOOR
ENVIRONMENTS




DIFFERENTIAL
DRIVE



UP TO 8 H.
OF AUTONOMY



REMOTE
TURN ON/OFF



SLAM
NAVIGATION

ARM OPTIONS



UR7e

INCLUDED COMPONENTS

- CPU i7
- Battery UN38.3 - 48VDC@15Ah
- 5G Router
- IMU
- RGBD camera
- Safety Pack 360°
 - » 2D Safety LiDARs + Safety PLC
- [Charging Station](#)

OPTIONAL COMPONENTS

- 3D LiDAR Robosense Airy
- 3D LiDAR Robosense RS-HELIOS 16P
- 3D SLAM Software Packages
- AI Computing Vision Package
 - » ZED camera and GPU
- OnRobot RG2 gripper
- OnRobot 2FG7 gripper
- OnRobot Eyes gripper camera

Version	UR7e
Dimensions (mm)	1.076 x 552 x 655
Weight (kg)	180
Payload (kg)	100
Arm payload (kg)	7,5
Arm reach (mm)	850
Arm weight (kg)	20
Speed (m/s)	1,25
Environment	Indoor
Enclosure class	IP30
Autonomy (h)	6
Traction Motors (W)	2 x 250 with brake
Traction systems	Differential drive
Localization system	SLAM
Temperature range (°C)	0° to +45°
Max. Slope (%)	6
Controller	ROS 2 Architecture
WiFi	WiFi 802.11 b/g/n/ac
Bluetooth	4.0
Connectivity	USB, Ethernet, HDMI
Power outputs	12 V, 24 V, VBATT

RB-THERON

UR7e

