

# RB-THERON

AUTONOMOUS MOBILE ROBOT (AMR)

DESIGNED FOR  
**INDOOR APPLICATIONS**

THE ROBOT CAN **CARRY 200 KG** &  
INTEGRATE DIFFERENT SENSORS

 RETAIL

 QUALITY CONTROL

 R&D

 DEVELOPMENT OF OWN APPLICATIONS



# RB-THERON

## 200 KG OF PAYLOAD AND 8H OF AUTONOMY

The **RB-THERON** Autonomous Mobile Robot is specially designed for scalable projects that require flexibility and modularity, such as retail or quality control applications. This platform allows the development of customized solutions to perform tasks such as inventory management, RFID tracking or real-time stock control.

### COMPONENTS INCLUDED

- CPU Intel i7
- Safety Pack
  - » 2D safety scanner x2
  - » Safety PLC
- RGBD camera
- 5G Router
- IMU
- Battery 48VDC@21Ah
- Charging station

### OPTIONAL COMPONENTS

- AI + Vision Package
- 3D Localization and Navigation Package
- Lifting unit

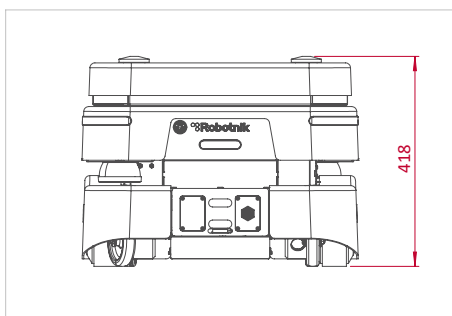
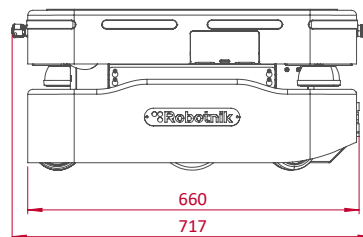
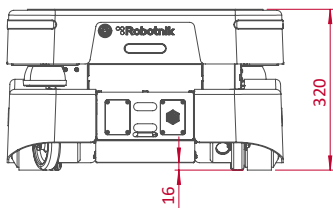
## MECHANICAL

Dimensions	<b>717 x 550 x 320 mm</b>
Dimensions (Lifting unit)	<b>717 x 550 x 418 mm</b>
Weight	<b>70 Kg</b>
Payload	<b>200 Kg</b>
Speed	<b>1,25 m/s</b>
Environment	<b>Indoor</b>
Enclosure class	<b>IP30</b>
Autonomy	<b>Up to 8 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 Architecture</b>
Communication	<b>WiFi 802.11 b/g/n/ac Bluetooth 4.0</b>
Connectivity	<b>USB x2 Ethernet x3 HDMI x1 DC Power Output</b>

## BLUEPRINTS



LIFTING UNIT

