

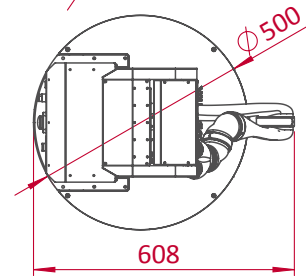
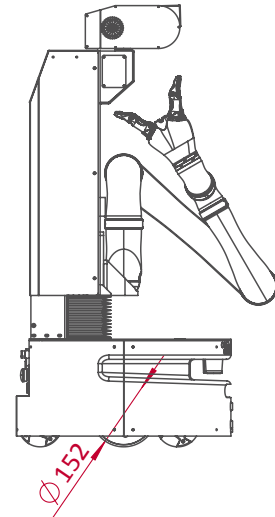
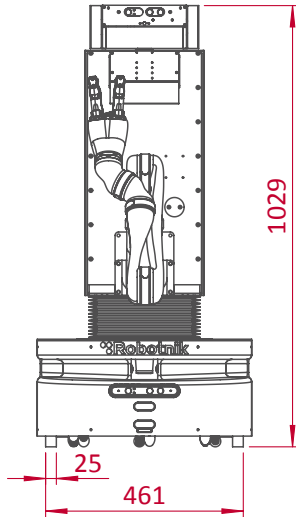
RB-I



MOBILE MANIPULATOR WITH
A **12-13 DOF** CONFIGURATION
& FOCUSED ON
THE **RESEARCH FIELD OF**
INDOOR APPLICATIONS



RESEARCH & DEVELOPMENT
AMBIENT ASSISTED LIVING
INDOOR MOBILE MANIPULATION
REMOTE HANDLING



TECHNICAL SPECIFICATIONS

MECHANICAL

- Dimensions **608 x 500 x 1.029 mm (Folded)**
- Base diameter **500 mm**
- Speed **1,5 m/s**
- Environment **Indoor**
- Enclosure class **IP51**
- Elevation axis range **350 mm**
- Weight **54 Kg**
- DOF **12-14 DOF (6-7 DOF Arm, 1-2 DOF Gripper, 2 DOF Pan tilt, 2 DOF Traction, 1 DOF Torso elevation)**
- Autonomy **7 h continuous motion**
- Batteries **LiFePO₄ 30Ah@24V**
- Traction motors **2x250 W servomotors**
- Temperature range **0° to +50°C**

Arm load capacity

- 6 DOF** 2,6 Kg (Half range)
2,2 Kg (Complete Range)
- 7 DOF** 2,4 Kg (Half range)
2,1 Kg (Complete Range)

PC

- Processor **4^a generation Intel i7**
- RAM **8 Gb**
- Hard drive capacity **120 Gb**

CONTROL

- Controller **Open architecture ROS
Embedded PC with Linux**
- Communication **WiFi 802.11ac, 4G**
- Connectivity **2 x USB, 1 x Ethernet
and 1 x HDMI**

Arm reach

- 6 DOF** 900 mm
- 7 DOF** 984 mm