

# MOBILE MANIPULATORS



Dimensions (mm)

**RB-1**

Spread out:  
Height: 1.029/1.379

**XL-GEN**

Spread out:  
1.478 x 613 x 392

**FETCH**

Spread out:  
Height: 1.096/1.491

**RB-KAIROS**

Spread out:  
847x663x1.552

**Weight**

54 kg

50 kg

113.3 kg

125 kg

**Payload Arm**

7 DOF: 2,4 kg  
6 DOF: 2,6 kg  
4 DOF: 4,4 kg

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6 Kg

5 kg

**Speed**

1,45 m/s

3 m/s

1 m/s

3 m/s

**Enclosure Class**

IP51

IP54

IP54

IP54

**DOF**

12-13 DOF (6 arm,  
1-2 gripper, 2 Pan  
tilt, 2 traction, 1 torso  
elevation)

11 DOF (6 arm, 3 hand,  
2 traction)

13 DOF (base,  
torso lift, 7 arm, gripper  
and head)

10 DOF (6 arm,  
1 traction, 3 gripper)

**Autonomy**

7 h

5-10 h

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8 h

**Batteries**

LiFePO<sub>4</sub> 30Ah@24V

LiFePO<sub>4</sub> 15Ah@24V

Lead Acid

LiFePO<sub>4</sub> 15Ah@48V

**Traction Motors**

2x250 W  
servomotors

4x250 W  
brushless servomotor

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4x500 W  
brushless servomotor

**Applications**

- R&D
- AAL (Ambiente Assisted Living)
- Indoor mobile manipulation
- Remote handing

- R&D
- Inspection
- Medicine
- Logistics
- Remote monitoring
- Access to harsh environments

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