

MOBILE MANIPULATORS



RB-1

XL-GEN

RB-KAIROS 3

RB-KAIROS 5

RB-KAIROS 10

RB-VULCANO 5

RB-VULCANO 10

Dimensions (mm)

Spread out:
Height: 1.029/1.379

Spread out:
1.478 x 613 x 392

Spread out:
847x663x1.234

Spread out:
847x663x1.552

Spread out:
847x663x1.904

Spread out:
1.599 x 1.060 x 937

Spread out:
1.599 x 1.060 x 994

Weight

54 kg

50 kg

115 kg

125 kg

135 kg

850 kg

850 kg

Payload Arm

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

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

3 kg

5 kg

10 kg

5 kg

10 kg

Speed

1,45 m/s

3 m/s

2 m/s

2 m/s

2 m/s

1 m/s

1 m/s

Enclosure Class

IP51

IP54

IP54

IP54

IP54

IP21

IP21

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)

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

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

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

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

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

Autonomy

7 h

5-10 h

8 h

8 h

8 h

6 h

6 h

Batteries

LiFePO₄ 30Ah@24V

LiFePO₄ 15Ah@24V

LiFePO₄ 15Ah@48V

LiFePO₄ 15Ah@48V

LiFePO₄ 15Ah@48V

LiFePO₄ 200Ah@48v

LiFePO₄ 200Ah@48V

Traction Motors

2x250 W
servomotors

4x250 W
brushless servomotor

4x500 W
brushless servomotor

4x500 W
brushless servomotor

4x500 W
brushless servomotor

4 x 1200 W

4 x 1200 W

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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