

RB-KAIROS 3

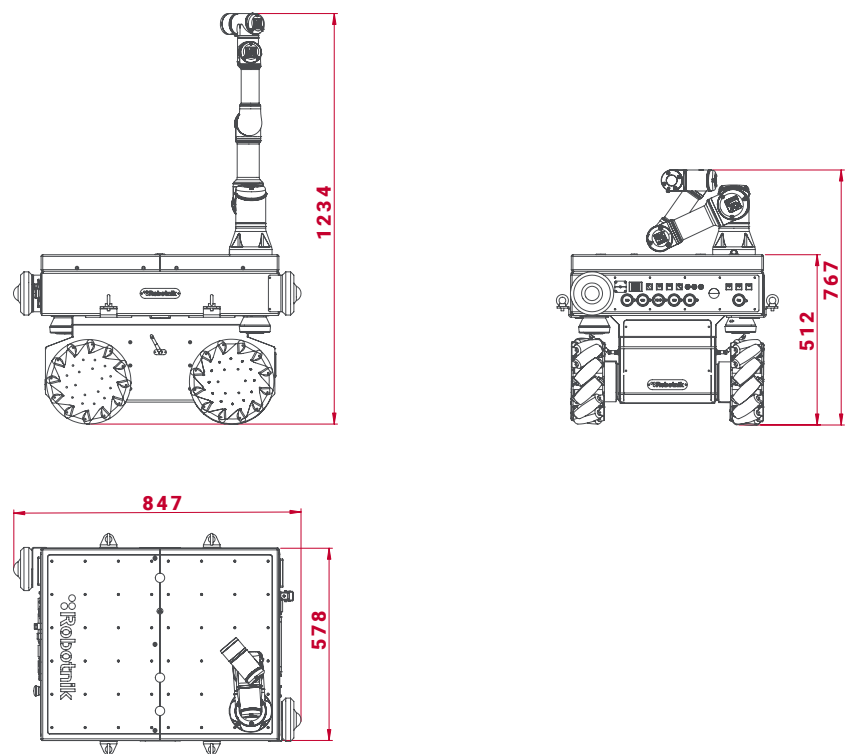


COMPLETELY INTEGRATED
**COLLABORATIVE MOBILE
MANIPULATOR (CMM)**, FOR
INDUSTRIAL TASKS

INDUSTRIAL MOBILE MANIPULATION:

PICK & PLACE
LOADING / UNLOADING
POSITIONING OF WORKPIECES
ASSEMBLY
SCREWING
DRILLING / MILLING
INSPECTION AND CHECK





TECHNICAL SPECIFICATIONS

MECHANICAL

(Configuration with omnidirectional wheels)

Dimensions **847 x 663 x 767 mm (Folder)**
847x663x 1.234 mm (Spread out)

Weight **115 kg**

Payload **115 kg | ≤ 250 kg**

Speed **2 m/s**

Enclosure class **IP54**

Autonomy **8 h continuous motion**

Batteries **LiFePO₄ 15Ah@48V**

Traction motors **4 x 500 W brushless servomotors**

Temperature range **0° to +50°C**

Max. slope **25 %**

CONTROL

Controller **Open architecture ROS**
Integrated PC with Linux

Communication **WiFi 802.11n**

Connectivity **Internal: USB, RS232 and GPIO**
External: USB, RJ45, power
supplies 5, 12 VDC and battery

ARM

Weight **11 kg**

Payload **3 kg**

Reach **500 mm**

EGP 40 CO ACT

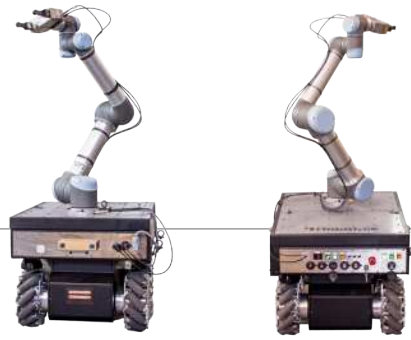
(Optional gripper)

Weight **0,7 kg**

Gripping force **35-140 N**

Stroke **6 mm**

RB-KAIROS 5

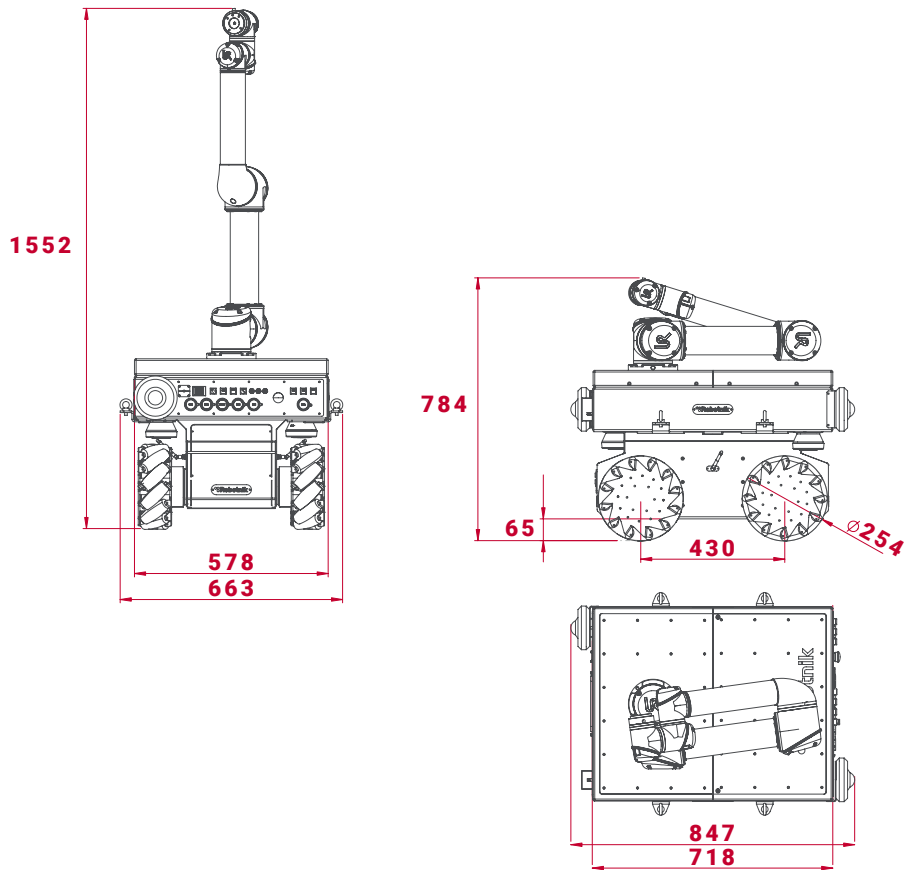


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TECHNICAL SPECIFICATIONS

MECHANICAL

(Configuration with omnidirectional wheels)

Dimensions **847 x 663 x 784 mm (Folder)**
847 x 663 x 1.552 mm (Spread out)

Weight **125 kg**

Payload **105 kg | ≤ 250 kg**

Speed **2 m/s**

Enclosure class **IP54**

Autonomy **8 h continuous motion**

Batteries **LiFePO₄ 15Ah@48V**

Traction motors **4 x 500 W brushless servomotors**

Temperature range **0° to +50°C**

Max. slope **20 %**

CONTROL

Controller **Open architecture ROS**
Integrated PC with Linux

Communication **WiFi 802.11n**

Connectivity **Internal: USB, RS232 and GPIO**
External: USB, RJ45, power supplies 5, 12 VDC and battery

ARM

Weight **18,4 kg**

Payload **5 kg**

Reach **850 mm**

EGP 40 CO ACT

(Optional gripper)

Weight **0,7 kg**

Gripping force **35-140 N**

Stroke **6 mm**

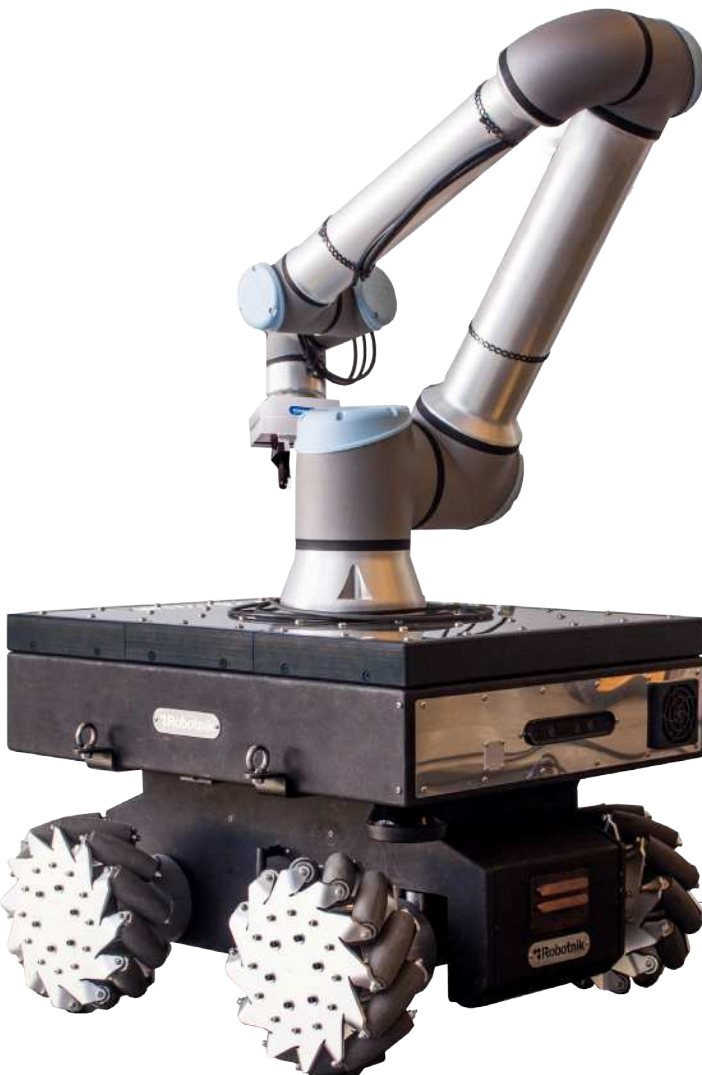
RB-KAIROS IO

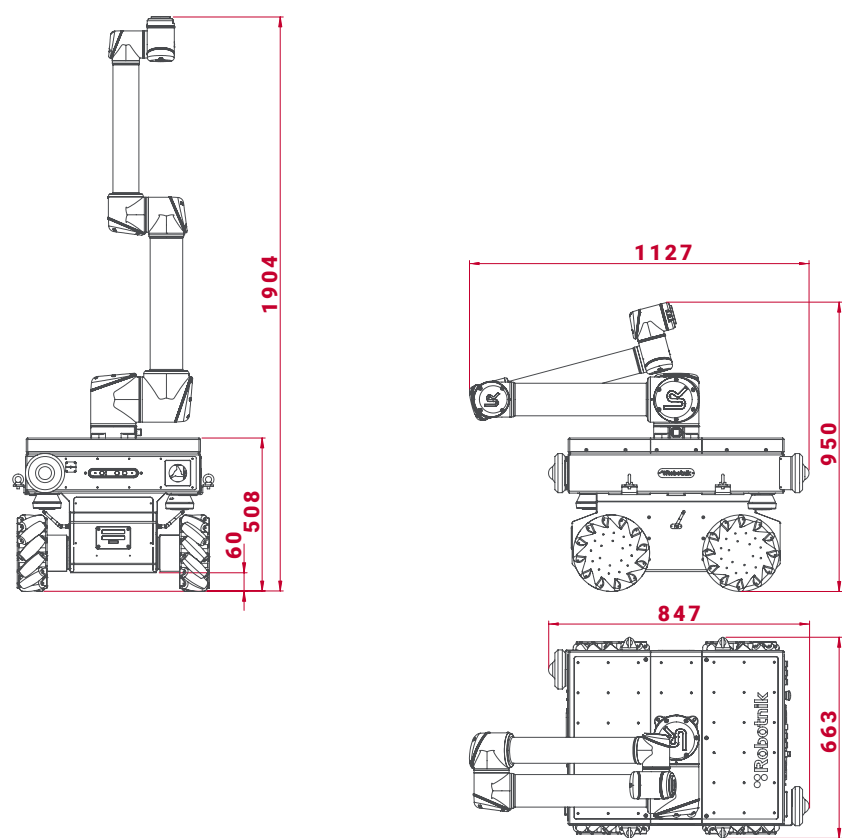


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TECHNICAL SPECIFICATIONS

MECHANICAL

(Configuration with omnidirectional wheels)

Dimensions **847 x 663 x 950 mm (Folder)**
1.027 x 663 x 950 mm (Spread out)

Weight **135 kg**

Payload **90 Kg | ≤ 250 kg**

Speed **2 m/s**

Enclosure class **IP54**

Autonomy **8 h continuous motion**

Batteries **LiFePO₄ 15Ah@48V**

Traction motors **4 x 500 W brushless servomotors**

Temperature range **0° to +50°C**

Max. slope **10 %**

CONTROL

Controller **Open architecture ROS**
Integrated PC with Linux
(Intel BayTrail J1900 or similar)
Optional JETWAY i7

Communication **WiFi 802.11n**

Connectivity **Internal: USB, RS232 and GPIO**
External: USB, RJ45, power
supplies 5, 12 VDC and battery

ARM

Weight **28,9 kg**

Payload **10 kg**

Reach **1.300 mm**

EGP 40 CO ACT

(Optional gripper)

Weight **0,7 kg**

Gripping force **35-140 N**

Stroke **6 mm**

RB-KAIROS 16

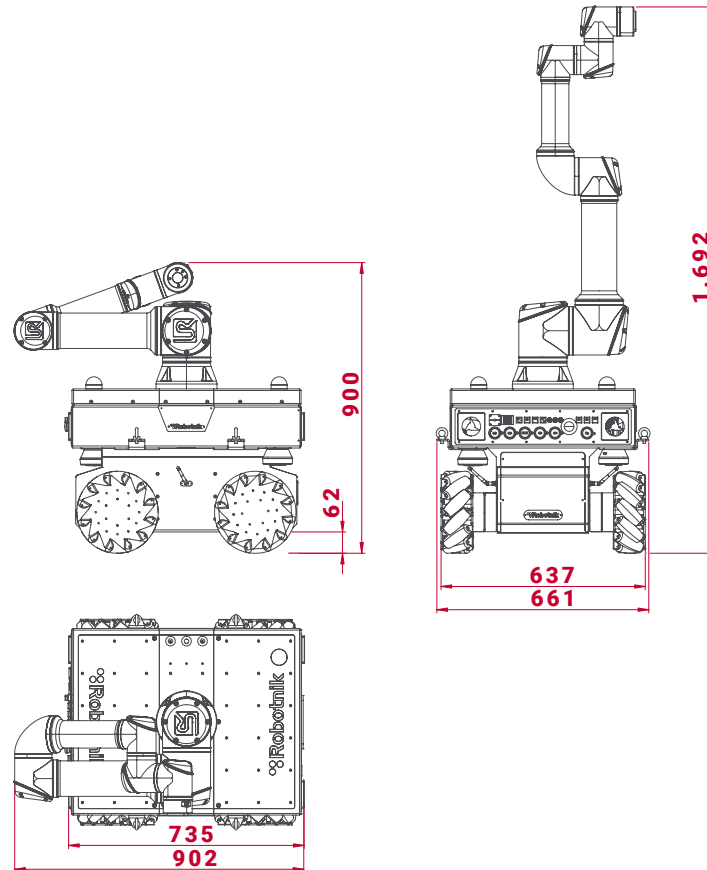


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TECHNICAL SPECIFICATIONS

MECHANICAL

(Configuration with omnidirectional wheels)

Dimensions **902 x 661 x 900 mm (Folder)**
735 x 661 x 1.692 mm (Spread out)

Weight **140 kg**

Payload **85 Kg | ≤ 250 kg**

Speed **2 m/s**

Enclosure class **IP54**

Autonomy **15 h continuous motion**

Batteries **LiFePO₄ 15Ah@48V / 30Ah@48V / 60Ah@48V**

Traction motors **4 x 500 W brushless servomotors**

Temperature range **0° to +50°C**

Max. slope **10 %**

CONTROL

Controller **Open architecture ROS**
Integrated PC with Linux

Communication **WiFi 802.11n**

Connectivity **Internal: USB, RS232 and GPIO**
External: USB, RJ45, power supplies 5, 12 VDC and battery

ARM

Weight **33,1 kg**

Payload **16 kg**

Reach **900 mm**