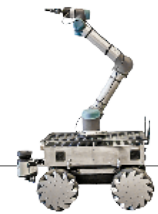
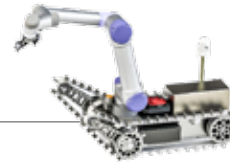


MOBILE MANIPULATORS



	RB-I	XL-MICO	RISING	FETCH	RB-KAIROS
Dimensions (mm)	Spread out: Height: 1.029/1.379	Spread out: 1.270X613X392	Spread out: 967x540x510	Spread out: Height: 1.096/1.491	Spread out: 800x550x1.614
Weight	54 Kg	50 Kg	65 Kg	113.3 Kg	115 Kg
Payload Arm	MICO2 (6 DOF): 2,1 K JACO2 (6 DOF): 2,6 Kg	MICO2 (6 DOF): 2,1 K JACO2 (6 DOF): 2,6 Kg	5-7,5 Kg	6 Kg	5 Kg
Speed	1,45 m/s	3 m/s	2,5 m/s	1 m/s	3 m/s
Enclosure Class	IP51	IP54	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)	6 DOF	13 DOF (base, torso lift, 7 arm, gripper and head)	10 DOF (6 arm, 1 traction, 3 gripper)
Autonomy	7 h	5-10 h	3,5 h	–	8 h
Batteries	LiFePO ₄ 30Ah@24V	LiFePO ₄ 15Ah@24V	LiPO48V	Lead Acid	LiFePO ₄ 15Ah@48V
Traction Motors	2x250 W servomotors	4x250 W servomotors	–	–	4x500 W brushless servomotor
Applications	<ul style="list-style-type: none"> •R&D •AAL (Ambiente Assisted Living) •Indoor mobile manipulation •Remote handing 	<ul style="list-style-type: none"> •R&D •Inspection •Medicine •Logistics •Remote monitoring •Access to harsh environments 	<ul style="list-style-type: none"> •R&D •Law enforcement and first responders intervention •Rescue and surveillance •Remote monitoring •Hazardous environments 	<ul style="list-style-type: none"> •R&D •AAL (Ambiente Assisted Living) •Mobile handling indoors 	<ul style="list-style-type: none"> •R&D •Indoor mobile manipulation