

MOBILE ROBOTS



Indoor robots

Indoor & Outdoor robots

Outdoor robots

	RB-1 BASE	RB-CRAWL	RB-2 BASE	SUMMIT-XL STEEL	RB-VULCANO BASE	SUMMIT-XL	SUMMIT-XL HL	RB-CAR	RB-SHERPA	RB-EKEN BASE
Dimensions (mm)	500x500x251	1.500 x 600 x 300	990x623x390	847x663x509	1.599x1.060x759	722x613x392	722x613x416	2.790x1.470x1.850	1.111x622x530	1.232x730x760
Weight	30 kg	200 kg	95 kg	105 kg	750 kg	45 kg	65 kg	800 kg	165 kg	270 kg
Payload	50 kg	700 kg	200 kg	130 kg / 250 kg	1.750 kg	20 kg	65 kg	2 people + 227 kg	200 kg	200 kg
Speed	1,5 m/s	2 m/s	1,7 m/s	3 m/s	1 m/s	3 m/s	3 m/s	35 km/h	2,5 m/s	2 m/s
Enclosure Class	IP51	IP54	IP54	IP54	IP21 / IP54	IP54 / IP65	IP54 / IP65	IP54	IP54 / IP65	
Traction System	Differential drive	Differential drive	Differential drive	Skid steering / Omni	Single / Dual Ackermann / Omni - drive (swerve drive)	Skid steering / Omni	Skid steering / Omni	Ackermann / Rear wheel/ 4 wheel traction	Single / Dual Ackermann / Omni	Ackermann
Autonomy (standard, without load)	10 h	5 h	10 h	6/12 h	10 h	5 h	10 h	Up to 70 km	10 h	4 h
Batteries	LiFePO ₄ 30Ah@24V	LiFePO ₄ 40Ah@48V	LiFePO ₄ 40Ah@48V	LiFePO ₄ 15/30Ah@48V	LiFePO ₄ 200Ah@48V	LiFePO ₄ 15Ah@24V	LiFePO ₄ 15Ah@48V	Lead Acid 240Ah@48V	LiFePO ₄ 30Ah@48V	LiFePO ₄ 60Ah@48V
Traction Motors	2x250 W	2x1.000 W	2x1.000 W	4x500 W	4 x 1200 W	4x250 W	4x500 W	7,6 Kw AC	4x500 W	4x1,2 Kw
Max. Slope	8 %	8 %	12 %	30 %	20 %	80 %	80 %	30 %	20 %	60 %
Applications	<ul style="list-style-type: none"> •Logistics •Industrial tasks •R&D 	<ul style="list-style-type: none"> •R&D •Logistics •Industrial tasks 	<ul style="list-style-type: none"> •R&D •Logistics •Industrial tasks 	<ul style="list-style-type: none"> •R&D •Logistics •Industrial tasks •Surveillance & monitoring 	<ul style="list-style-type: none"> •R&D •Logistics •Industrial tasks 	<ul style="list-style-type: none"> •R&D •Surveillance •Military •Remote monitoring •Access to hazardous areas 	<ul style="list-style-type: none"> •R&D •Surveillance •Military •Remote monitoring •Access to hazardous areas 	<ul style="list-style-type: none"> •R&D •Transport of goods •Transport of people 	<ul style="list-style-type: none"> •R&D •Logistics •Industrial tasks •Picking and transport •Delivery apps •Agriculture •Military 	<ul style="list-style-type: none"> •R&D •Logistics •Industrial tasks

MOBILE MANIPULATORS



RB-1



XL-GEN



RB-KAIROS



RB-VULCANO



RB-EKEN

	RB-1	XL-GEN	RB-KAIROS				RB-VULCANO			RB-EKEN		
			3	5	10	16	5	10	16	5	10	16
Dimensions (mm)	600 x 500 x 1.029	613 x 392 x 700	847 x 663 x 767	847 x 663 x 784	847 x 663 x 950	847 x 663 x 900	1.599 x 1.060 x 937	1.599 x 1.060 x 1.150	1.599 x 1.060 x 1.100	1.204 x 730 x 992	1.204 x 730 x 1.068	1.204 x 730 x 1.107
Weight	54 kg	50 kg	115Kg	125kg	135Kg	140Kg	850 kg	854 kg	858 kg	270 kg	280 kg	284 kg
Payload	-	15 kg	Up to 250 Kg				1.750 Kg			200 kg		
Payload Arm	7 DOF: 2,4 kg 6 DOF: 2,6 kg	7 DOF: 2,4 kg 6 DOF: 2,6 kg	3Kg	5kg	10Kg	16Kg	5Kg	10Kg	16Kg	5kg	10Kg	16Kg
Speed	1,5 m/s	3 m/s	2 m/s				1 m/s			2 m/s		
Enclosure Class	IP51	IP54	IP54				IP21			IP21		
DOF	12-14 DOF (6-7 arm, 1-2 gripper, 2 Pan tilt, 2 traction, 1 torso elevation 450mm)	11 DOF (6 arm, 3 hand, 2 traction)	10 DOF (6 arm, 3 traction, 1 gripper)				10 DOF (6 arm, 3 traction, 1 gripper) 1 arm elevation (1.000 mm)			10 DOF (6 arm, 2 traction, 1 gripper)		
Autonomy	7 h	5-10 h	6-12 h				6 h			4 h		
Batteries	LiFePO ₄ 30Ah@24V	LiFePO ₄ 15Ah@24V	LiFePO ₄ 15/30Ah@48V				LiFePO ₄ 200Ah@48v			LiFePO ₄ 60Ah@48v		
Traction Motors	2x250 W servomotors	4x250 W brushless servomotor	4x500 W brushless servomotor				4 x 1200 W			4 x 1,2 W		
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 •Remote monitoring •Access to harsh environments 	<ul style="list-style-type: none"> • Industrial mobile manipulation • Pick & Place • Loading/Unloading • Screwing • Assembly • R&D 				<ul style="list-style-type: none"> • Industrial mobile manipulation •R&D 			<ul style="list-style-type: none"> • Industrial mobile manipulation •R&D 		