

MARS C1000-C1500-C2000

Technical Specifications

Lift Heavy, Work Smarter

Designed to handle heavy-duty loads from 1000 to 2000 kg, this AMR combines powerful performance with smart navigation to maximize productivity.



GENERAL INFORMATION

AMR Type	Carrier	Max Docking Speed	0.4 m/s
Payload Capacity	C1000: 2200 lbs (1000 kg) C1500: 3300 lbs (1500 kg) C2000: 4400 lbs (2000 kg)	Docking Accuracy	± 5 mm
Max Speed	1.25 m/s	Navigation Type	SLAM Navigation

DIMENSIONS

Length	1932 mm	Turning Radius	Turn in place
Width	1200 mm	Weight	770 lbs (350 kg)
Height	369 mm	Ground Clearance	30 mm

SAFETY

Performance Level	PLd	Bumper	All four sides of AMR
Emergency Stop	5 x Emergency Stop Button		

POWER

Battery Type	Li-Ion	Voltage	48 V
Capacity	C1000: 84 Ah C1500: 105 Ah C2000: 150 Ah	Charging Time (30% to 80%)	60 min
Max Discharge Rate	2C	Charging Options	Manual Charging Autonomous Charging Wireless Charging
Run Time	8 Hours		
Number of Full Charging Cycles	5,000		

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SUPPORTED MODULES

Lift Module

Stroke: 100 mm
Speed: 12 mm/s
Load Type: Carts, Pallets, etc.
Load Capacity: 2200 lbs, 3300 lbs, 4400 lbs
(1000 kg - 1500 kg - 2000 kg)
Module Weight: 220 lbs (100 kg)
Position Feedback: Up-Down



Conveyor Module

Stroke: 100 mm
Speed: 12 mm/s
Load Type: Boxes, Pallets etc.
Load Capacity: 2200 lbs, 3300 lbs, 4400 lbs
(1000 kg - 1500 kg - 2000 kg)
Module Weight: 220 lbs (100 kg)



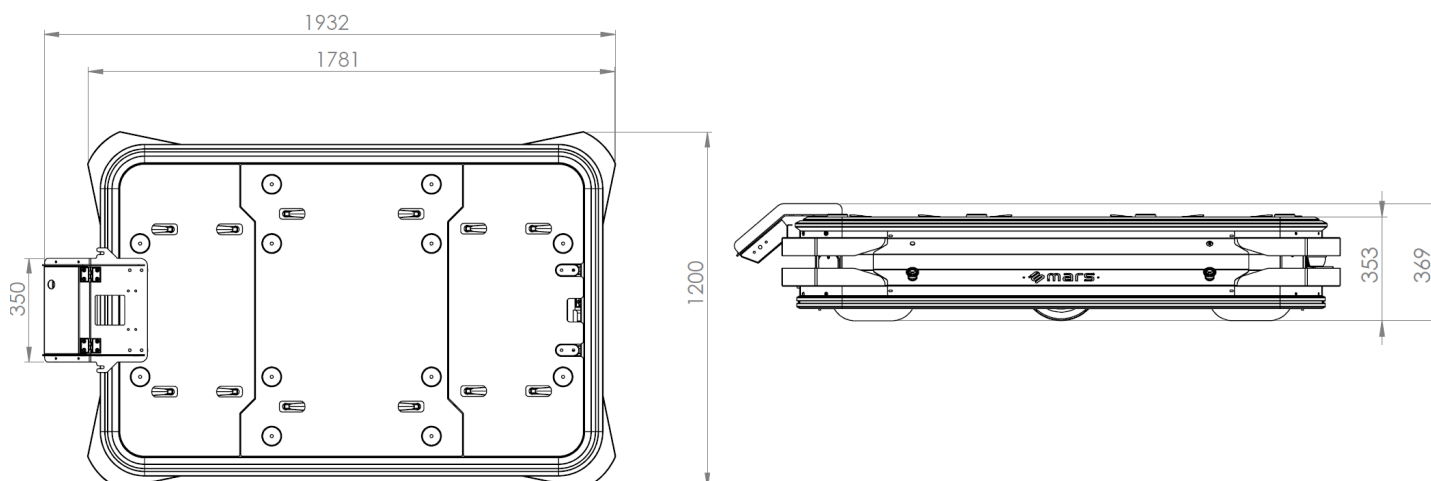
ENVIRONMENT

Environment	For indoor use only	Ambient Operating Temperature	0°C to 50°C
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ATTACHMENT INTERFACE

Power Interface	24 VDC, 10 A Regulated 48 VDC, 50 A Unregulated	Safety Interface	Dual Channel E-Stop
Signal Interface	Ethernet, USB		

TECHNICAL DRAWINGS



*All dimensions are in mm.