

MARS P1000 - P2000

Technical Specifications

Optimizing Intralogistics & Material Handling

The MARS P1000 is a stacker type AMR that autonomously picks up loads from the ground and places them at different heights, enabling efficient stacking and warehouse automation.



GENERAL INFORMATION

AMR Type	Stacker	Max Docking Speed	0.4 m/s
Payload Capacity	P1000: 2200 lbs (1000 kg) P2000: 4400 lbs (2000 kg)	Docking Accuracy	± 5 mm
Max Speed	1.25 m/s	Navigation Type	SLAM Navigation

DIMENSIONS

Length	1509 mm	Turning Radius	Turn in place
Width	1008 mm	Weight	770 lbs (350 kg)
Height	2304 mm	Ground Clearance	30 mm

SAFETY

Performance Level	PLd	Bumper	Three sides of AMR
Emergency Stop	3 x Emergency Stop Button		

POWER

Battery Type	Li-Ion	Voltage	48 V
Capacity	P1000: 105 Ah P2000: 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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ENVIRONMENT

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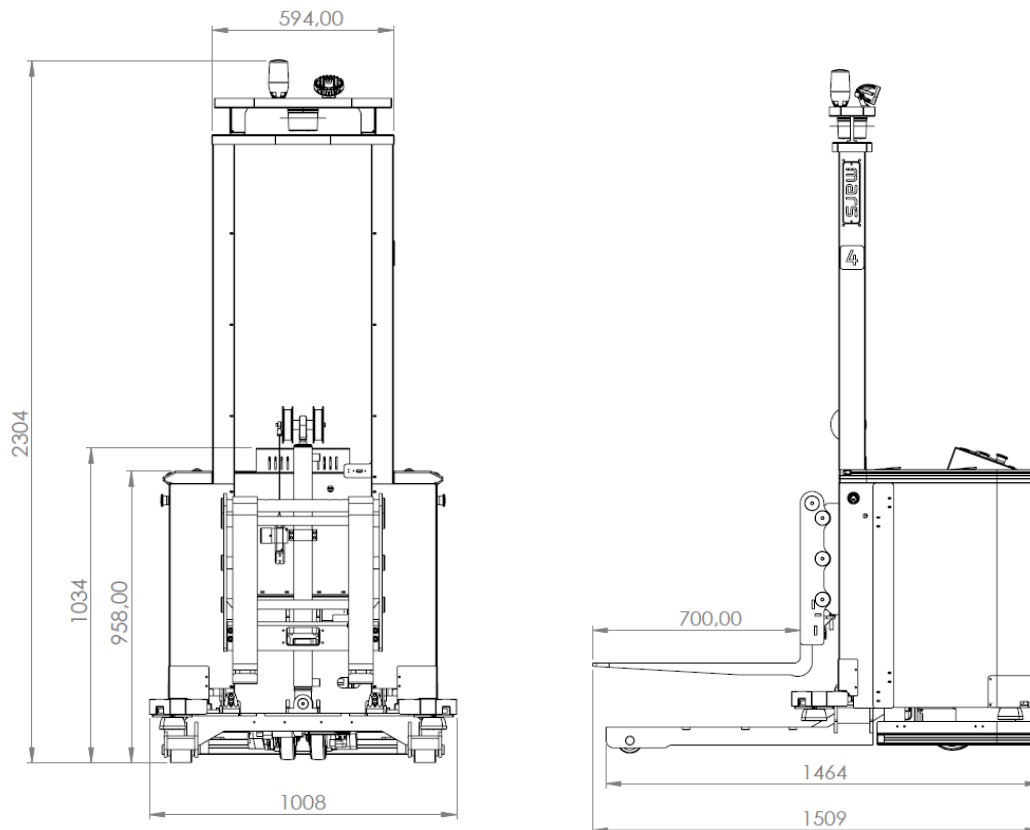
ATTACHMENT INTERFACE

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

FORKS

Stroke	1400 mm	Load Capacity	P1000: 2200 lbs (1000 kg) P2000: 4400 lbs (2000 kg)
Speed	120 mm/s	Actuation Type	Hydraulic
Load Type	Pallets, Carts, Trays, Custom Loads	Position Feedback	16 bit 0.1 mm/pulse Encoder

TECHNICAL DRAWINGS



*All dimensions are in mm.