

MARS C100

Technical Specifications

Experience lightning-fast operations

The C100 is the smallest mobile robot in our product range. Pins, locks, guiding and lift mechanisms can be easily integrated into the superstructure.



GENERAL INFORMATION

AMR Type	Carrier	Max Docking Speed	0.4 m/s
Payload Capacity	220 lbs (100 kg)	Docking Accuracy	± 5 mm
Max Speed	1.8 m/s	Navigation Type	SLAM Navigation

DIMENSIONS

Length	713 mm	Turning Radius	Turn in place
Width	524 mm	Weight	132 lbs (60kg)
Height	200 mm	Ground Clearance	30 mm

SAFETY

Performance Level	PLd	Bumper	All four sides of AMR
Emergency Stop	1 x Emergency Stop Button		

POWER

Battery Type	Li-Ion	Voltage	48 V
Capacity	14 Ah	Charging Time (30% to 80%)	60 min
Max Discharge Current	28 A (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

Pin Module

Stroke: 100 mm
Speed: 12 mm/s
Load Type: Carts, Trays, etc.
Load Capacity: 220 lbs (100 kg)
Module Weight: 50 lbs (23 kg)
Position Feedback: Up-Down



Lift Module

Stroke: 100 mm
Speed: 12 mm/s
Load Type: Carts, Half Pallets, etc.
Load Capacity: 220 lbs (100 kg)
Module Weight: 66 lbs (30 kg)
Position Feedback: Up-Down



ENVIRONMENT

Environment

For indoor use only

Ambient Operating Temperature

0°C to 50°C

ATTACHMENT INTERFACE

Power Interface

24 VDC, 10 A Regulated
48 VDC, 14 A Unregulated

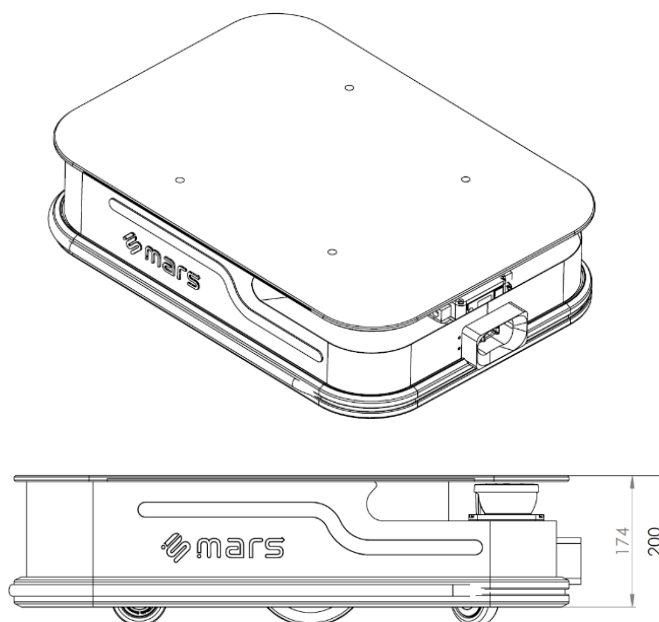
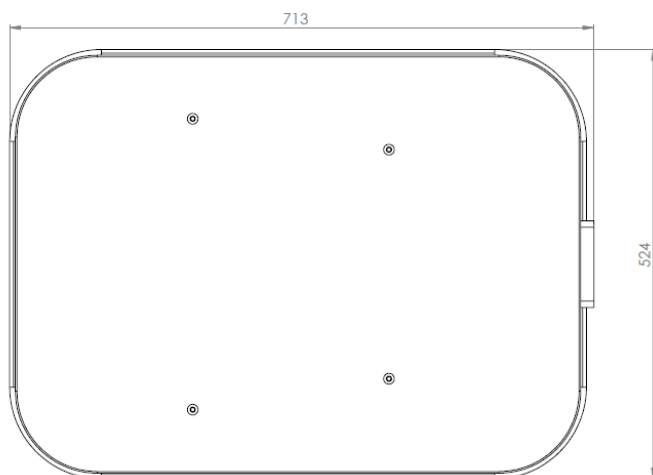
Safety Interface

Dual Channel E-Stop

Signal Interface

Ethernet, USB

TECHNICAL DRAWINGS



*All dimensions are in mm.