

MARS C300-C500-C750

Technical Specifications

Midweight Loads Maximum Agility

Engineered for loads from 300 kg
Up to 750 kg, this AMR delivers
exceptional efficiency through
bidirectional movement
and superior maneuverability.



| GENERAL INFORMATION | | | |
|---------------------|-------------------------|-------------------|-----------------|
| AMR Type | Carrier | Max Docking Speed | 0.4 m/s |
| Payload Capacity | C300: 660 lbs (300 kg) | Docking Accuracy | ± 5 mm |
| | C500: 1100 lbs (500 kg) | | |
| | C750: 1650 lbs (750 kg) | | |
| Max Speed | 1.5 m/s | Navigation Type | SLAM Navigation |

| DIMENSIONS | | | |
|------------|---------|------------------|------------------------|
| Length | 1243 mm | Turning Radius | Turn in place |
| Width | 885 mm | Weight | C300: 330 lbs (150 kg) |
| | | | C500: 440 lbs (200 kg) |
| | | | C750: 550 lbs (250 kg) |
| Height | 322 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 | C300: 35 Ah | Charging Time (30% to 80%) | 60 min |
| | C500: 42 Ah | | |
| | C750: 50 Ah | | |
| Max Discharge Rate | 2C | Charging Options | Manual Charging Autonomous Charging Wireless Charging |
| Run Time | 8 Hours | | |
| Number of Full Charging Cycles | 5,000 | | |

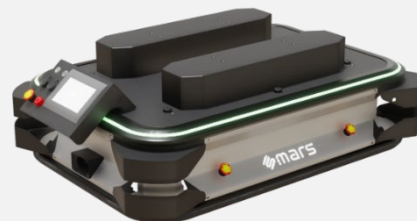
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SUPPORTED MODULES

Lift Module

Stroke: 100 mm
Speed: 14 mm/s
Load Type: Carts, Pallets, etc.
Load Capacity: 660 lbs, 1100 lbs, 1650 lbs
(300 kg - 500 kg - 750 kg)
Module Weight: 50 lbs (23 kg)
Position Feedback: Up-Down



Conveyor Module

Speed: 0.2 m/s
Load Type: Boxes, Pallets, etc.
Load Capacity: 660 lbs, 1100 lbs, 1650 lbs
(300 kg - 500 kg - 750 kg)
Module Weight: 110 lbs (50 kg)



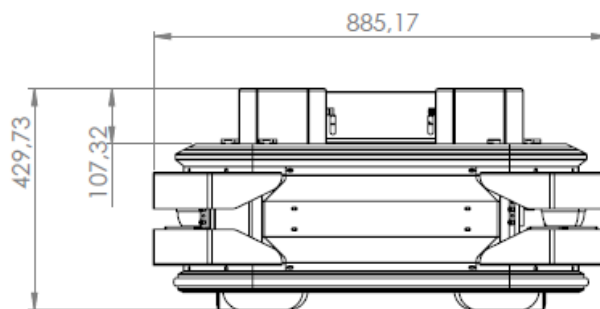
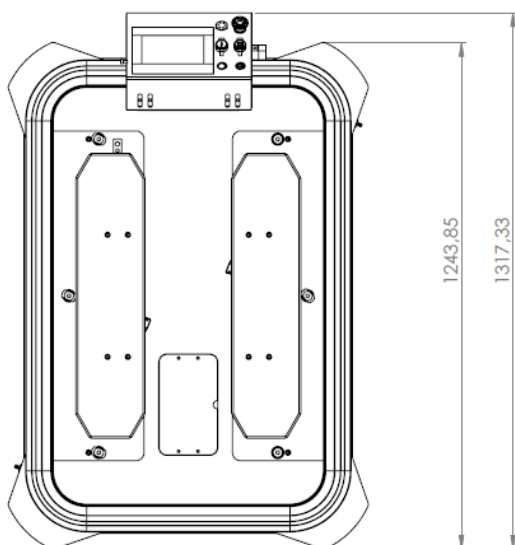
ENVIRONMENT

| | | | |
|-------------|---------------------|-------------------------------|-------------|
| Environment | For indoor use only | Ambient Operating Temperature | 0°C to 50°C |
|-------------|---------------------|-------------------------------|-------------|

ATTACHMENT INTERFACE

| | | | |
|------------------|--|------------------|---------------------|
| Power Interface | 24 VDC, 10 A Regulated 48 VDC, 35 A Unregulated | Safety Interface | Dual Channel E-Stop |
| Signal Interface | Ethernet, USB | | |

TECHNICAL DRAWINGS



*All dimensions are in mm.