

# Technical Specifications



# AR650

## DESCRIPTION

With a payload of 650 Kgs, this AMR is perfect for mid-sized transport tasks.

## SPEED AND PERFORMANCE

Length	1400 mm   55.12 in
Width	950 mm   37.4 in
Height	300 mm   11.81 in
Weight (Excluding battery or payload)	180 kg   238 lbs
Ground Clearance	30 mm   1.18 in

## PAYLOAD

Maximum Payload	650 kg (1433 lbs)
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## POWER

Battery Type	Lithium ion, 48V, 60Ah
Charging Time - AR Charge 48V	2 Hours
External Charger	Input: 100-230V AC, 50-60Hz Output: 48V, max 30A
Charging Options	AR Charger 48V, Cable Charger
Battery Voltage	48V Nominal
Running Time	8 hours
Charging	Manual Plugin   Battery Swapping Auto Docking

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## SENSORS

IMU	1 no.
Lidar	2pcs-Diagonal scanner: SICK nanoScan3
Load Detect	Alarm generation above 650 kg
Proximity Sensor	24 pcs   400 mm
Safety Bumper	Industrial Grade System, Front and back
3D Camera	3D cameras with 120° coverage (1 each in the front and rear)

## SPEED AND PERFORMANCE

Maximum Speed (with maximum payload on a flat surface)	Forwards: 1.2 m/s (4.32 km/h) 3.94 ft/s (2.68 mph) Backwards: 1.2 m/s (4.32 km/h) 3.94 ft/s (2.68 mph)
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## SAFETY

Personnel Detection	Dynamic Obstacle Avoidance
Emergency Stop	4 Emergency Buttons
Light	LED Indication
Buzzer	Buzzer sounds on obstacle detection

## COMMUNICATION

Communication	REST API, Modbus, CAN
WiFi	Dual-band wireless, 802.11/2.4 Ghz/5 Ghz
I/O Connections	USB and Ethernet

