

Technical Specifications



AR1250

DESCRIPTION

Heavy-duty tasks come easily to our highest payload robot, capable of lifting up to 1250 kilograms.

SPEED AND PERFORMANCE

Length	1650 mm 64.96 in
Width	1100 mm 43.30 in
Height	325 mm 12.79 in
Weight (Excluding battery or payload)	300 kg 661.3 lbs
Ground Clearance	30 mm 1.18 in

PAYLOAD

Maximum Payload	1250 kg (2755 lbs)
-----------------	--------------------

POWER

Battery Type	Lithium ion, 48V, 80Ah
Charging Time - AR Charge 48V	2 Hours
External Charger	Input: 100-230V AC, 50-60Hz Output: 48V, max 40A
Charging Options	AR Charger 48V, Cable Charger
Battery Voltage	48V Nominal
Running Time	8 hours
Charging	Manual Plugin Battery Swapping Auto Docking

Technical Specifications

SENSORS

IMU	1 no.
Lidar	2pcs-Diagonal scanner: SICK nanoScan3
Load Detect	Alarm generation above 1250 kg
Proximity Sensor	12 pcs 400 mm
Safety Bumper	Industrial grade material, 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)
--	---

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

