

MULTIFUNCTIONAL AND EASILY ACCESSIBLE

AUBO Haina Series Composite Robotics

AUBO-AMR300

The AUBO Haina Series Composite Robotics offer a range of capabilities, including flexible control of collaborative robots, a mobile base, visual systems, and end-of-arm grippers. The all-in-one control system provide a simple, convenient, secure, flexible, and highly efficient collaborative experience across various scenarios. It can adapt seamlessly to diverse work environments, simplifying operations and enabling the completion of complex tasks through coordinated manual, visual, and automated interactions.

FEATURES AND BENEFITS



ALL-IN-ONE

The all-in-one control system allows flexible control of collaborative robots, mobile bases, visual systems, and more. Which also could simplify the operations and enabling one-touch experiences to users.



Instant Information Access

Real-time access to the status of each device, with information delivered directly and seamlessly. The teach pendant can instantly retrieve the information such as the mobile base's position, speed, battery level, the display and control of I/O, the status of laser blocking, navigation, alarm logs, and more.



Highly Flexible Expansion

Allows different combinations of collaborative robots, mobile bases, 2D/3D vision systems, end-of-arm tools, and so on.

Facilitating the cross-device collaboration and meeting the requirements of payload and scenario for various industries.



User-Friendly

The Programming for collaborative robots, mobile bases, and vision systems are integrated to an individual software, with flowchart-based interface. The software includes task modules that users can program the behavior of robot which according to their specific needs. It also supports high-precision of visual positioning, making it compatible with traditional programming methods and reducing the complexity of system usage.



Secure

Utilizing high-precision SLAM LiDAR for navigation and positioning, along with dual-wheel differential motion control, ensuring the smoother mobility.

LiDAR security features assist in maintaining safety; when personnel approach the mobile base, the robotic arm will slow down to ensure safety.



Collaborative Operations

Through the integrated operating system by AUBO, it's possible to achieve collaborative control of collaborative robots, mobile bases, visual systems, and other devices. Supporting both standalone operation and multi-device scheduling solutions.

Highly Flexible Expansion AUBO-i5H/AUBO-i12H/AUBO-i16H

Efficient Collaboration Customizable optional modules



All-in-One Seamless Collaboration with a Single Click



TECHNICAL INFORMATION

BASIC PERFORMANCE

Model

AUBO-AMR300

Exterior Dimensions (Length*Width*Height)	1000*700*600mm (excluding the height of the robotic arm), with a tolerance of ± 2 mm
Load Surface Dimensions (Length*Width)	650*620mm, with a tolerance of ± 2 mm
Weight	250Kg (Excluding the robotic arm)
Maximum Load Capacity	300Kg (Including the weight of the robotic arm and payload)
Drive Method	Dual-wheel differential drive
Number of Laser Sensors	2

MOTION PERFORMANCE

Maximum Speed	1.3m/s
Working Speed	Forward: 1.0m/s (configurable), Reverse: 1.0m/s (configurable)
Turning Radius	0mm
Rotation Radius	550mm
Climbing Ability	6°
Obstacle Clearance Height	10mm
Gap Width	30mm
Ground Clearance	25mm
Walking Path Width	≥ 900 mm
Turning Path Width	≥ 1300 mm
Site Positioning Accuracy	± 10 mm
Ground Smoothness	6mm

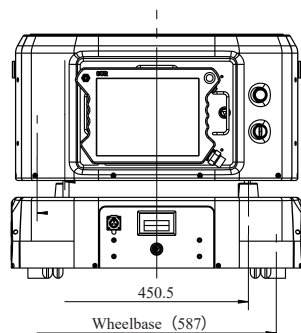
BATTERY PERFORMANCE

Battery Capacity	Lithium-ion Battery
Charger Power Supply Parameters	220V 800-1000W
Battery Life	6h(300Kg Fully Loaded)
Battery Lifetime	800 cycles (DOD 100%), with a capacity retention rate of 80%
Charging Method	Optional manual or automatic charging; maximum charging current of 15A
Charging Time	3 hours (from 15% to 95% charge)

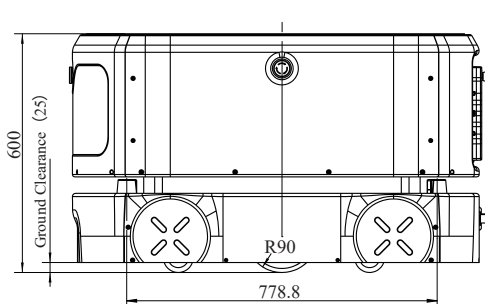
OPTIONAL EQUIPMENT

Robotic Arm	Optional configurations include AUBO-i5H, AUBO-i12H, AUBO-i16H
2D Camera	Compatible with industrial 2D cameras using an eye-on-hand configuration, capable of achieving 2.5D positioning with an accuracy of up to 0.5mm
3D Camera	Compatible with structured light cameras, binocular 3D cameras, etc., using an eye-on-hand configuration, with 3D positioning accuracy of up to 1mm
Electric Gripper	Compatible with two-finger adaptive electric grippers, three-finger adaptive electric grippers, parallel two-finger electric grippers, and more.

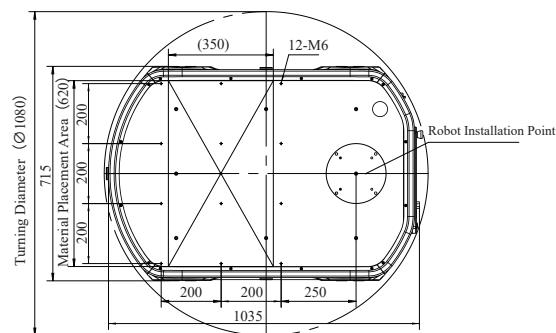
DIMENSIONAL DIAGRAM



AUBO-AMR300 Rear View



AUBO-AMR300 Side View



AUBO-AMR300 Top View