

AUBO-i16

i Series Collaborative Robot



16 KG
PLAYLOAD



38.9 KG
WEIGHT



± 0.03 mm
REPEATABILITY



967.5 mm
WORKING RADIUS

- ✓ Features a maximum working radius of 967.5 mm
- ✓ 16 kg payload, combined with a repeatability of ± 0.03 mm
- ✓ Heavy payload and extensive reach

Applications

3C Electronics, Automotive, New Energy, Semiconductor, Machining, Hardware & Home Appliances, Kitchen & Bathroom Products, Healthcare, Education & Research, Food & Beverage, Retail, Daily Chemical, and Logistics



CERTIFICATIONS

- ISO 13849-1 (PL d, Category 3)
- CE Certification
- NRTL Certification
- KC Certification
- SEMI S2 Certification
- RoHS Certification
- Reach Certification
- ISO Class 4 Cleanroom Suitable



Features & Advantages

- 01 Higher Precision:** Enhanced repositioning and point-to-point accuracy, with reduced collision force thresholds and millisecond-level system response. Delivers more precise positioning and smoother motion trajectories
- 02 Faster Speed:** Operating speed increased by 10%–20%. The 6-axis robot enables more efficient operation and significantly improves productivity
- 03 Enhanced Functionality:** Open system architecture with integrated RS485 communication. Supports drag-to-teach functionality and external device power supply, enabling seamless communication with end-effectors, vision systems, mobile platforms, and other peripheral equipment for greater flexibility and easier integration
- 04 Improved Safety:** Certified to multiple international standards. Enhanced collision detection sensitivity ensures safe and reliable human-robot collaboration without the need for additional safety fencing



High Performance



High Precision



Fast Response



Flexible Production



Precision Machining



Safety and Stability



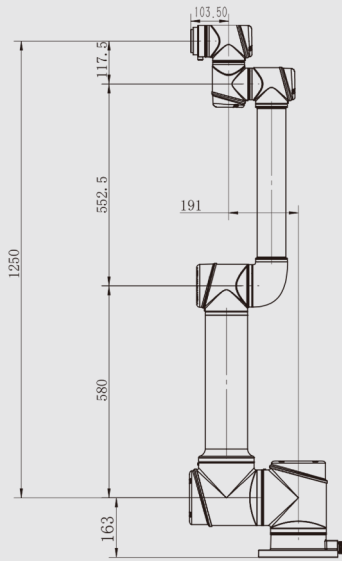
High Protection Grade



Compact Footprint



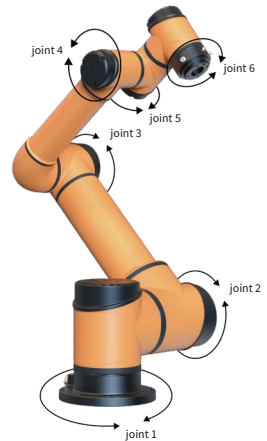
Modular Design



AUBO-i16 Dimensions Diagram

Specification

Degrees of Freedom	6
Max Working Radius	967.5 mm
Payload	16 kg
Weight	38.9 kg
Footprint Diameter	Ø218
Repeatability	±0.03
Tool Speed	≤3.0 m/s
Average Power	600 W
Peak Power	2000 W
Operating Temp. Range	0-50 °C
Operating Humidity	90% RH (Non-condensing)
Mounting	Any Angle
IP Classification	IP54



Joint Motion

	Joint 1	Joint 2	Joint 3	Joint 4	Joint 5	Joint 6
Range of Motion	±360°	±360°	±161°	±360°	±360°	±360°
Max Speed	178 °/s	178 °/s	267 °/s	237 °/s	237 °/s	237 °/s

*Joint motion capabilities may be limited by application scenarios; maximum speeds may not be reached. Please note this during use.

Control Cabinet

Product Model	AUBO-CB-iS
Dimension (L*W*H)	400 mm*160 mm*320 mm
Weight	12.5 kg
Robot Arm Cable Length	5 m (Customizable, up to 8 m)
Teach Pendant Cable Length	4 m
Power Cable Length	5 m
Communication Protocols	Ethernet, ModBus-RTU/TCP, Profinet Ethernet/IP (Optional)
Interfaces & Openness	SDK (C/C++/C#/Lua/Python/JavaScript Windows + Linux) Supporting ROS/ROS2, AP
Power Supply	115/230VAC, 50/60Hz
IP Classification	IP43

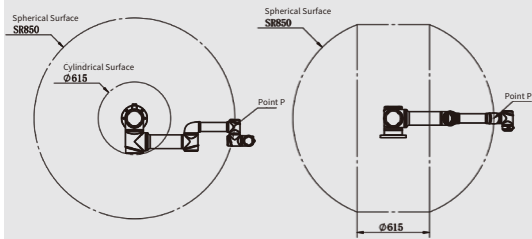


I/O Interfaces

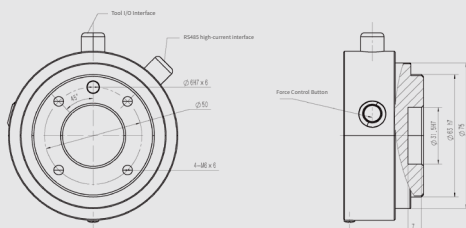
	Control Cabinet	Tool End
I/O Interfaces		
Digital Input	16 (Standard), 16 (Configurable) / 8 (Safety)	4 (Configurable)
Digital Output	16 (Standard), 16 (Configurable) / 8 (Safety)	4 (Configurable)
Analog Input	2	2
Analog Output	2	-
485 Communication	2	1 (Optional)
I/O Power		
Output Voltage	24 V	0V/12V/24V
Output Current	3A Max	2A (3A Max)

Teach Pendent

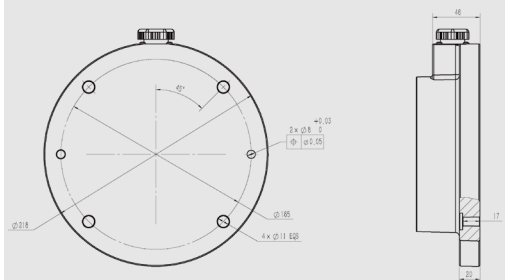
Product Model	AUBO-TP-IS
Dimension (L*W*H)	254 mm*213.1 mm*40.8 mm
Weight	1.0 kg
IP Classification	IP54
Color	Orange + Black



AUBO-i16 Point P Motion Range



AUBO-i16 End Flange



AUBO-i16 Base Top

Disclaimer:

1. The contents of this product brochure are subject to change without prior notice.
2. This product brochure is copyrighted by the company. Any reproduction or quotation of its contents must clearly indicate the source. Unauthorized reproduction or distribution without permission may be considered infringement, and legal responsibility will be pursued in accordance with applicable laws.

