

# AUBO-i16

## i Series Collaborative Robot



**16KG**

PAYLOAD



**38.9KG**

WEIGHT



**±0.03mm**

REPEATABILITY



**967.5mm**

WORKING RADIUS

- ✓ The AUBO-i16 cobot features a maximum working radius of 967.5mm.
- ✓ Payload of 16kg, combined with a repeatability of ±0.03mm.
- ✓ Heavy payload and extensive reach.

### Applications

3C, Automotive, New Energy, Semiconductors, Machining, Hardware & Appliances, Kitchen/Bath, Healthcare, Research & Education, F&B (Food & Beverage), New Retail, Daily Chemicals, Logistics.



#### CERTIFICATIONS

- ISO 13849(PL d with Cat. 3)
- CE Certification
- NRTL Certification
- KCs Certification
- CR Certification
- SEMI S2 Certification
- RoHS Certification
- ISO class 4 Cleanroom ISO Class 4



### Features & Advantages

(Compared to the previous generation of products)

- 01 Higher Precision:**  
Optimized repeatability and power-on accuracy. Millisecond response ensures smooth and precise trajectories.
- 02 Increased Speed:**  
Operating speed boosted by 10%-20% for highly efficient 6-DOF performance and maximum productivity.
- 03 Stronger Functionality:**  
Open platform with flange RS485, high-current support, and new end-effector drag-to-teach. Seamless integration with diverse grippers, vision, and mobile peripherals.
- 04 Superior Safety:**  
Fully certified and highly stable. Upgraded collision detection enables fenceless, ultra-safe human-machine collaboration.



High Performance



High Precision



Rapid Response



Safe and Stable



Flexible Production



Fine Craftsmanship



Compact and Lightweight



Modular Design

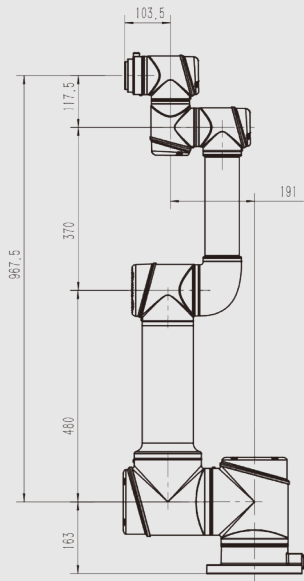


High Protection Class

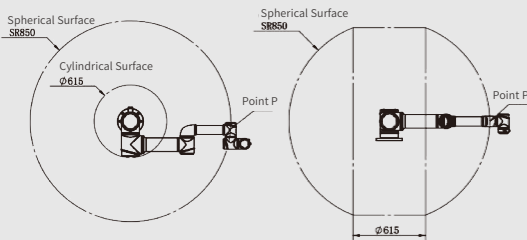
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# AUBO i16

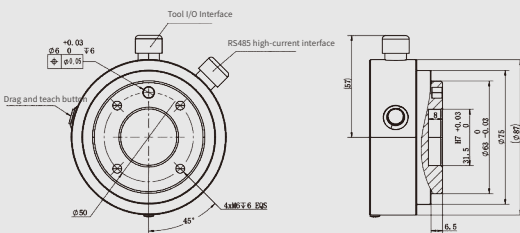
## TECHNICAL SPECIFICATIONS



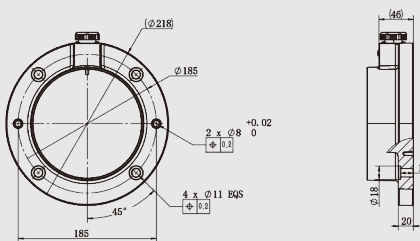
**AUBO-i16 Dimensions Diagram**



**AUBO-i16 Point P Motion Range**



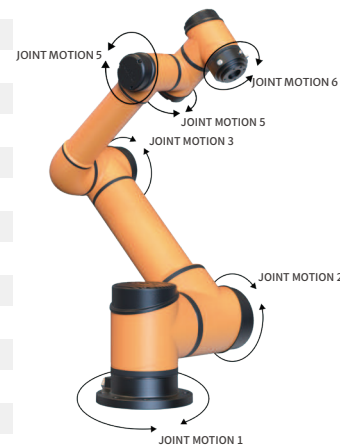
**AUBO-i16 End Flange**



**AUBO-i16 Base Top View**

### Robot

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



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

\* 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
Dimensions (L*H*W)	400mm*320mm*160mm
Weight	12.5kg
Robot Arm Cable Length	5m (Customizable, up to 8m)
Teach Pendant Cable Length	4m
Power Cable Length	5m
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
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	-
RS485 Communication	2	1 (Configurable)
I/O Power	Output Voltage: 24V	0V/12V/24V
	Output Current: 3A Max	2A (3A Max)

### Teach Pendant

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



### Disclaimer

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