

# AUBO-i16


## i SERIES

### COLLABORATIVE ROBOT



 **16KG**  
Payload

 **38KG**  
Weight

 **±0.03mm**  
Repeatability

 **967.5mm**  
Reach

- ✓ The AUBO-i16 collaborative robot has a maximum payload of 16kg, and also provides a repeat positioning accuracy of ±0.03mm.
- ✓ Maximum working radius of 967.5mm.
- ✓ Offering high capacity and a compact design.

#### Application Fields

3C electronics, automotive, new energy, semiconductors, mechanical processing, hardware home appliances, kitchen and bathroom sanitary ware, medical health, scientific research and education, catering, new retail, daily chemicals, logistics.

#### Product Advantages

- 01 **More Accurate Positioning** The repeatability and power-on positioning accuracy have been further improved, the maximum collision force value has been reduced, and millisecond-level system response speed ensures accurate positioning, resulting in a smoother operation trajectory.
- 02 **Faster Speed** Working speed has been increased by 10%-20%. The 6-axis robotic arm operates efficiently, which significantly improves work efficiency.
- 03 **Stronger Functionality** An open system platform with integrated 485 communication at the end of the arm has been adopted, and functions such as end-of-arm tool drag-and-drop teaching are added. It supports high-current power supply and can directly establish communication with a wider variety of end effectors, vision systems, mobile and other peripheral equipment, making the system more flexible and convenient.
- 04 **Superior Safety** The product has passed multiple professional certifications, is stable and reliable, with improved collision detection sensitivity, and does not require safety barriers, making human-robot collaboration safer.



High Performance



High Precision



Rapid Response



Safe and Stable



Modular Design



Flexible Production



Fine Workmanship



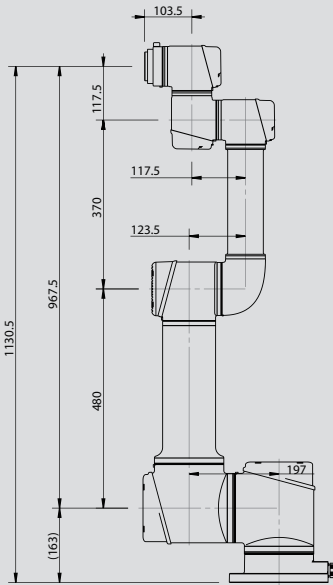
High Protection Level



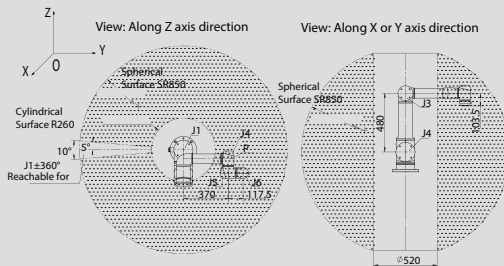
Compact and Portable



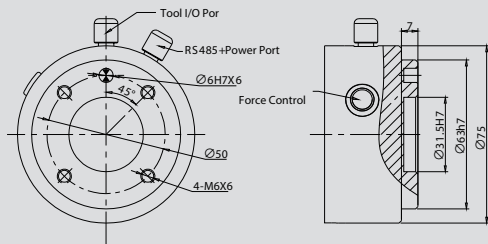
Others



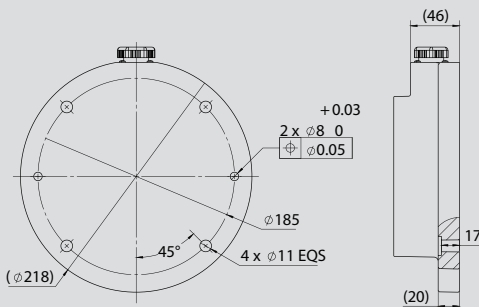
AUBO-i16 Dimensions



AUBO-i16 Moving Range of Point P



AUBO-i16 Tool End Flange



AUBO-i16 Top View of Base

### Robot

Degrees of Freedom	6
Reach (mm)	967.5
Payload (kg)	16
Weight (kg)	38
Mounting Surface Diameter (mm)	Ø220
Repeatability (mm)	±0.03
Linear Velocity (m/s)	≤3.0
Average Power(W)	600
Peak Power (W)	2000
Ambient Temperature (°C)	0-50
Ambient Humidity	90%RH (Non-condensing)
Installation Orientation	Any ceiling, Floor, Wall
IP Classification	IP54
ISO 14644-1 Cleanliness Class	5



### Axis Movement

	Working Range (°)	Maximum 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

\*Each joint has the ability of ±360°, but limited by the application scenario, part of the joints may not be reached.

### Control Box

Model	AUBO-CB-M
Size (L*W*H)	380mm*350mm*265mm
Weight	15 kg
Cable Connecting Robot	5 m (customizable, up to 8m)
Cable Connecting Pendant	4m
Cable Connecting Power	5m
Communication	Ethernet, ModBus-RTU/TCP, Profinet (optional)
Interface	SDK(support C/C++/C#/Lua/Python), support ROS, API
Power Supply	100-240VAC, 50-60Hz
IP Classification	IP43



### Control Box I/O, Tool I/O

	Control Box	Tool	
I/O Port	Digital In	16 (general) /16 (safe)	4(optional)
	Digital Out	16 (general) /16 (safe)	4(optional)
	Analog In	4	2
	Analog Out	4	-
I/O Power	Output Voltage	24V	0V/12V/24V
	Output Current	3A max	0.8A

### Teach Pendant

Model	AUBO-TP
Dimensions	322*236*45.2mm (Excluding E-Stop Button)
Weight	2.56kg (Including Cable)
IP Classification	IP43
Colors	Orange + black



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