

# AUBO-i10


## i SERIES

### COLLABORATIVE ROBOT



 **10KG**  
Payload

 **38.5KG**  
Weight

 **±0.03mm**  
Repeatability

 **1350mm**  
Reach

- ✓ The AUBO-i10 collaborative robot has a maximum working radius of 1350mm,
- ✓ A payload capacity of 10kg, and boasts a repeat positioning accuracy of ±0.03mm.
- ✓ It offers a high payload and a long working radius.

#### 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

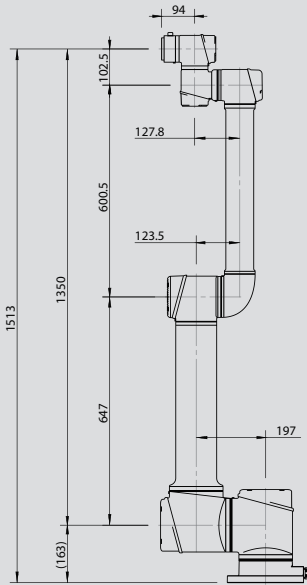


High Protection Level

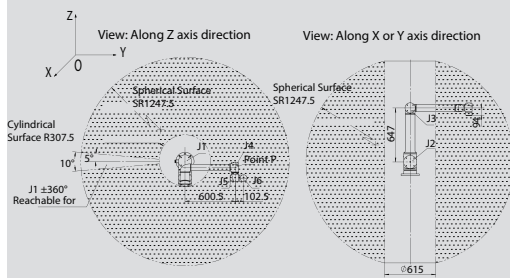


Compact and Portable

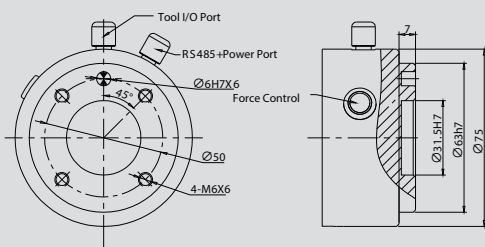
Others



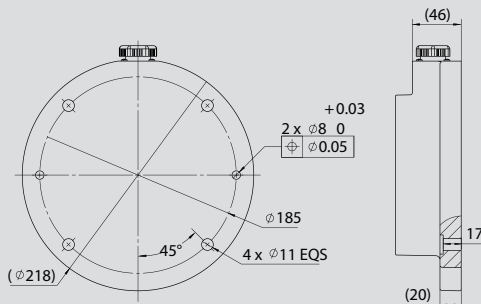
AUBO-i10 Dimensions



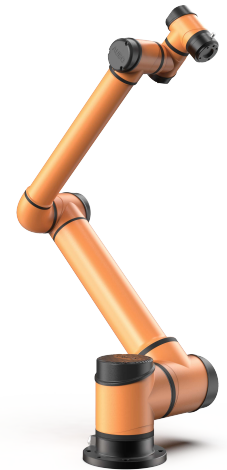
AUBO-i10 Moving Range of Point P



AUBO-i10 Tool End Flange



AUBO-i10 Top View of Base



### Robot

|                                |                          |
|--------------------------------|--------------------------|
| Degrees of Freedom             | 6                        |
| Reach (mm)                     | 1350                     |
| Payload (kg)                   | 10                       |
| Weight (kg)                    | 38.5                     |
| Mounting Surface Diameter (mm) | Ø220                     |
| Repeatability (mm)             | ±0.03                    |
| Linear Velocity (m/s)          | ≤4.0                     |
| Average Power(W)               | 500                      |
| 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 | ±167              | 223                 |
| 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) |
|           | Digital Out    | 16 (general) /16 (safe) |
|           | Analog In      | 4                       |
|           | Analog Out     | 4                       |
| I/O Power | Output Voltage | 24V                     |
|           | Output Current | 3A max                  |
|           |                | 4(optional)             |
|           |                | 4(optional)             |
|           |                | 2                       |
|           |                | -                       |
|           |                | 0V/12V/24V              |
|           |                | 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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