

# AUBO-iS7

## iS Series Collaborative Robot



**7 KG**  
PAYLOAD



**21.5 KG**  
WEIGHT



**±0.02mm**  
REPEATABILITY



**886.5 mm**  
WORKING RADIUS

- ✓ AUBO-iS7 high-performance collaborative robot, designed for high-speed operation in complex and sensitive environments
- ✓ Payload: 7 kg, Reach: 1008.5 mm, Max. Working Radius: 886.5 mm
- ✓ High performance, fast response, compact and lightweight

### Applications

The iS Series is suitable for a wide range of industrial applications, especially precision manufacturing, spraying, and sensitive-environment operations



#### CERTIFICATIONS

- ISO 13849(PL d with Cat. 3)
- CE Certification
- RoHS Certification
- Reach Certification
- KCs Certification
- North American Safety Certification



### Features & Advantages

- 01 Modular Design, Easy Replacement:** Integrated modular design with 6 standard module specifications, enabling quick replacement and easier maintenance
- 02 Enhanced Performance, Higher Accuracy and Speed:** Repeatability, absolute accuracy, and trajectory accuracy are all significantly improved, with faster robot
- 03 New Design, Stronger Protection:** Payload-to-weight ratio up to 1:3.2. Optimized core components and upgraded control algorithm. Fully enclosed structure with a protection rating of up to IP68
- 04 Compact, Flexible, and Widely Applicable:** New teach pendant weighs only 1 kg. New control cabinet reduces floor space by more than 50%



High Performance



High Precision



Fast Response



Flexible Production



Precision Machining



Safety and Stability



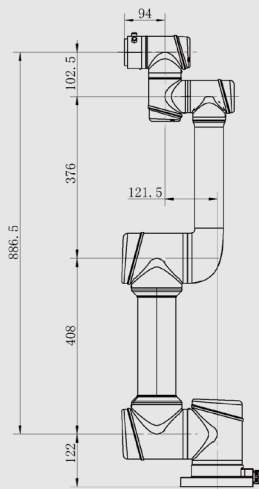
High Protection Grade



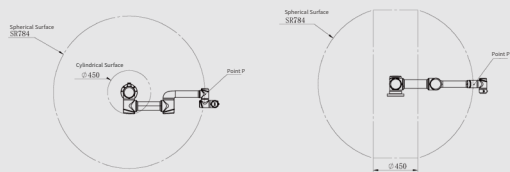
Compact Footprint



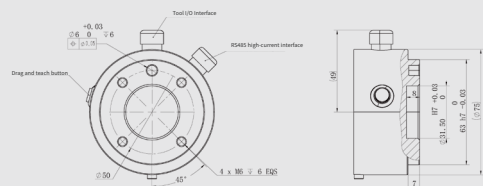
Modular Design



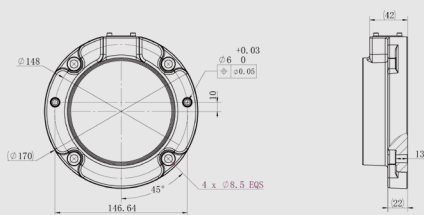
AUBO-iS7 Dimensions Diagram



AUBO-iS7 Point P Motion Range



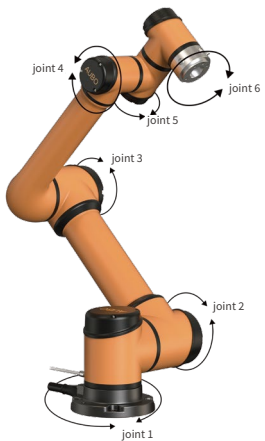
AUBO-iS7 End Flange



AUBO-iS7 Base Top View

Specification

|                       |                         |
|-----------------------|-------------------------|
| Degrees of Freedom    | 6                       |
| Max Working Radius    | 886.5 mm                |
| Payload               | 7 kg                    |
| Weight                | 21.5 kg                 |
| Footprint Diameter    | Ø170                    |
| Repeatability         | ±0.02                   |
| Tool Speed            | ≤3.6 m/s                |
| Average Power         | 200 W                   |
| Peak Power            | 2000 W                  |
| Operating Temp. Range | 0-50 °C                 |
| Operating Humidity    | 90% RH (Non-condensing) |
| Mounting              | Any Angle               |
| IP Classification     | IP67                    |



| Joint Motion    | Joint 1 | Joint 2 | Joint 3 | Joint 4 | Joint 5 | Joint 6 |
|-----------------|---------|---------|---------|---------|---------|---------|
| Range of Motion | ±360°   | ±360°   | ±162°   | ±360°   | ±360°   | ±360°   |
| Max Speed       | 237 °/s | 237 °/s | 237 °/s | 296 °/s | 296 °/s | 296 °/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)<br>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 Pendnat

|                   |                         |
|-------------------|-------------------------|
| 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          |

