

AUBO-iS20

iS SERIES

COLLABORATIVE ROBOT



20KG

Payload



64KG

Weight



±0.05mm

Repeatability



1647mm

Working Radius

- ✓ AUBO-iS20 is a high-performance collaborative robot with significantly faster speeds and higher IP class, which allows it to work in complex and demanding environments.
- ✓ AUBO-iS20 has a payload of 20 kg and offers a reach of 1832.5 mm and a maximum working radius of 1647mm.
- ✓ Compact, lightweight, designed for high performance and rapid response

Applications

The iS-series is suitable for a wide range of industrial scenarios and is particularly suited for advanced manufacturing, painting, and specialized applications in harsh environments.



Features and Benefits

- 01 Modular Design, Easy to Replace Joints** AUBO iS-series cobots feature an integrated modular design with six standard modules of different specifications in total, allowing for quick replacement and more convenient maintenance and repair.
- 02 Enhanced Performance, Precision and Efficiency** Compared to the previous generation, there is an overall improvement in the repeatability, absolute repeatability, and trajectory repeatability while operating at a much higher speed.
- 03 New Design, Higher Protection Level** The load-to-self weight ratio can reach 1:3.2. Core components have been optimized with new control algorithms. The fully enclosed structure allows for a maximum protection level of IP68.
- 04 Compact and Flexible, Wide Application** The new teach pendant weighs only 1kg, and the floor space of the new control cabinet is reduced by 50%. AUBO iS-series cobots also come with a multifunctional tool end, enabling a broader range of applications.



High Performance



High Precision



Rapid Response



Safe and Stable



Modular Design



Flexible Production



Precision Engineered

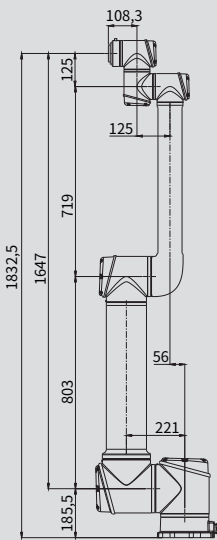


High IP Level

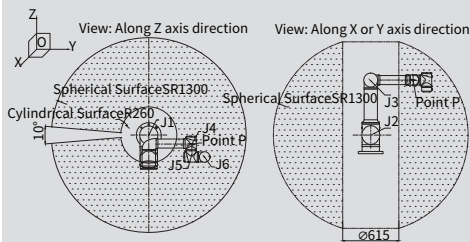


Compact and Lightweight

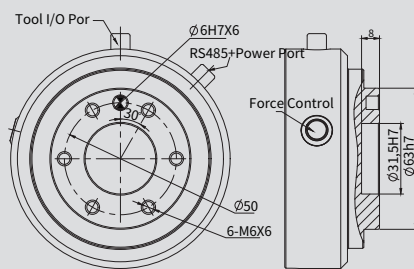
••• Others



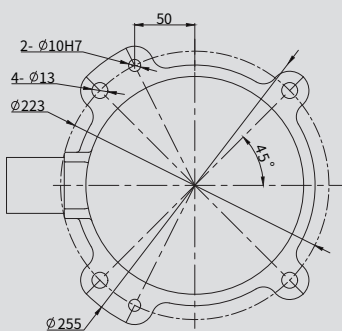
AUBO-iS20 Dimensions



AUBO-iS20 Moving Range of Point P



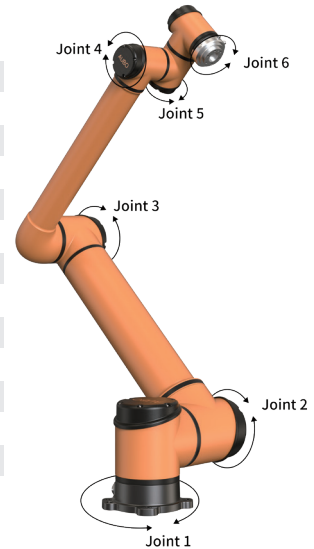
AUBO-iS20 Tool End Flange



AUBO-iS20 Top View of Base

Robot

| | |
|--------------------------------|--------------------------|
| Degrees of Freedom | 6 |
| Reach (mm) | 1647 |
| Payload (kg) | 20 |
| Weight (kg) | 64 |
| Mounting Surface Diameter (mm) | ∅255 |
| Repeatability (mm) | ±0.05 |
| Linear Velocity (m/s) | ≤4.2 |
| Average Power(W) | 1000 |
| Peak Power (W) | 3000 |
| Ambient Temperature (C) | 0-50 |
| Ambient Humidity | 90% RH (Non-condensing) |
| Installation Orientation | Any ceiling, Floor, Wall |
| IP Classification | IP67, up to IP68 |
| ISO 14644-1 Cleanliness Class | 5 |



Axis Movement

| | Working Range (°) | Maximum Speed (°/s) |
|---------|-------------------|---------------------|
| joint 1 | ±360 | 148.7 |
| joint 2 | ±360 | 148.7 |
| joint 3 | ±168 | 178 |
| joint 4 | ±360 | 296.3 |
| joint 5 | ±360 | 296.3 |
| joint 6 | ±360 | 296.3 |

*Each joint has the ability of ±360 but is limited by the application scenario. Some joints may not be reached.

Control Box

| | |
|------------------------------------|--|
| Model | AUBO-IS-CB-M |
| Size (L*W*H) | 400mm*160mm*320mm |
| Weight | 12.5kg |
| Cable Connecting the Robot | 5m (customizable, up to 8m) |
| Cable Connecting the Teach Pendant | 4m |
| Cable Connecting the Power | 5m |
| Communication | Ethernet, ModBus-RTU/TCP, EtherCAT, EtherNet/IP, Profinet (Optional) |
| Interface | SDK (Support C/C++/C#/Lua/Python), Support ROS, API |
| Incremental Encoder Interface | Encoder line count range: 1500-10000 CPR. Speed range: 0-3000 RPM |
| Power Supply | 100-240VAC, 50-60Hz |
| IP Classification | IP43 |



Control Box I/O, Tool I/O

| | | Control Box | Tool |
|-----------|----------------|------------------------|------------------|
| I/O Port | Digital In | 8 (general) / 8 (safe) | 4 (optional) |
| | Digital Out | 8 (general) / 8 (safe) | 4 (optional) |
| | Analog In | 2 | 2 |
| | Analog Out | 2 | - |
| | RS485 | 1 | 1 |
| I/O Power | Output Voltage | 24V | 0V/12V/24V |
| | Output Current | 2A | Rated 2A/Peak 3A |

Teach Pendant

| | |
|-------------------|----------------------|
| Model | AUBO-TP |
| Dimensions | 254mm*213.1mm*40.8mm |
| Weight | 1.0kg |
| IP Classification | IP43 |
| Colors | Orange + black |



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