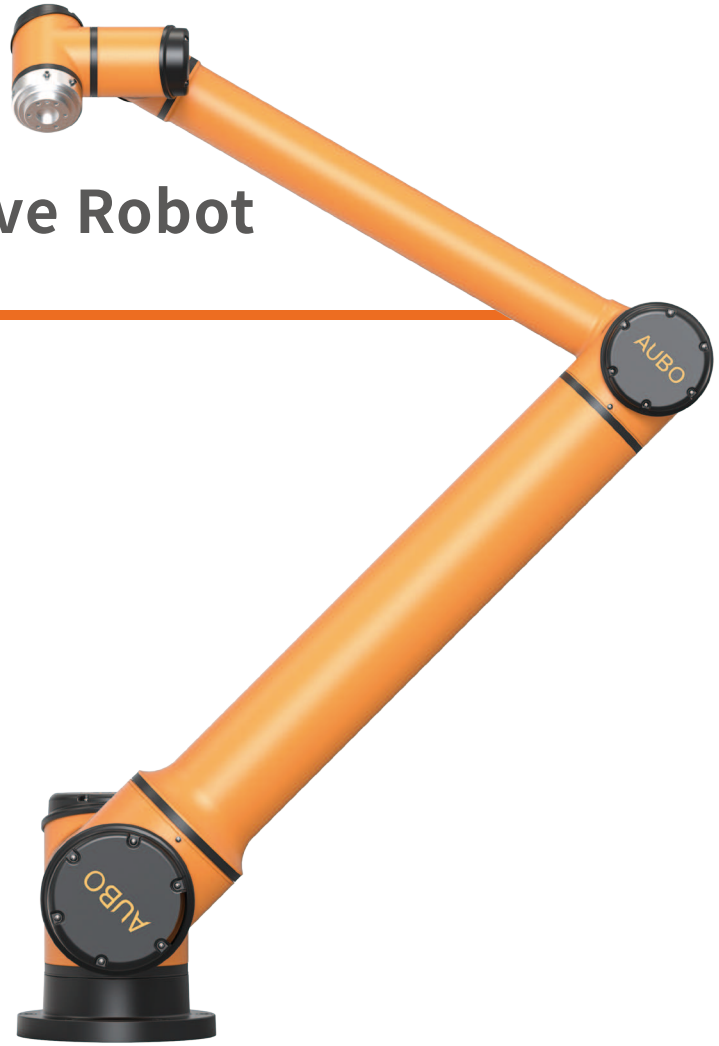


AUBO-iS20L

iS Series Collaborative Robot



20KG

PAYLOAD



72KG

WEIGHT



±0.05mm

REPEATABILITY



2000mm

WORKING RADIUS

- ✓ The AUBO-iS20L high-performance collaborative robot boasts a fast-operating robotic arm, capable of meeting the operational needs in complex and sensitive environments
- ✓ Payload: 20kg, arm span:2210.5mm, maximum working radius:2000mm
- ✓ High performance, fast response, compact and lightweight

Applications

The AUBO iS series can be widely used across all industry scenarios, and is especially suitable for precision manufacturing, spraying, harsh/sensitive environments, and other special scenarios.



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

- 01 Modular and easy to replace:** Adopts an integrated modular design with 6 standard module specifications, enabling quick replacement and more convenient maintenance.
- 02 Enhanced performance, high precision, and high speed:** Compared to the i series, repeatability, absolute accuracy, and trajectory accuracy are comprehensively improved, and the robotic arm moves faster.
- 03 Brand new design, stronger protection:** The payload-to-weight ratio reaches up to 1:3.2, with optimized core components and new control algorithms; fully enclosed structure with a maximum IP68 protection rating.
- 04 Lightweight, flexible, and widely applicable:** The new teach pendant weighs only 1kg, and the new control cabinet reduces footprint by 50%; all models come standard with a multi-functional tool end, expanding the application range.



High Performance



High Precision



Rapid Response



Safe and Stable



Flexible Production



Fine Craftsmanship



Compact and Lightweight

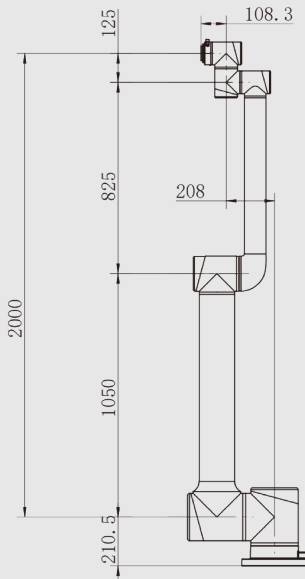


Modular Design

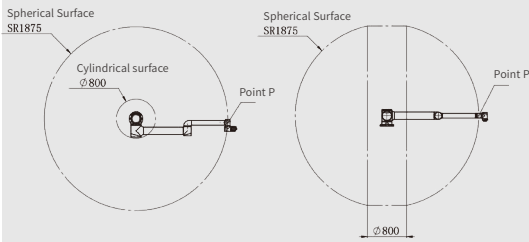


High Protection Class

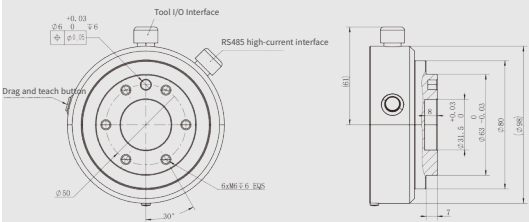




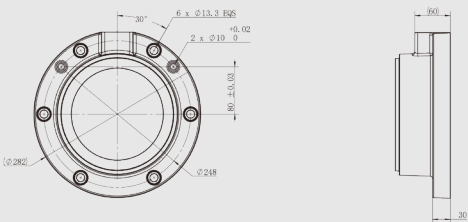
AUBO-iS20L Dimensions Diagram



AUBO-iS20L Point P Motion Range



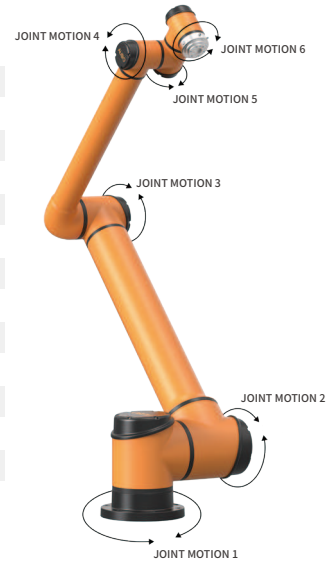
AUBO-iS20L End Flange



AUBO-iS20L Base Top View

Robot

Degrees of Freedom	6
Max Working Radius (mm)	2000
Payload (kg)	20
Weight (kg)	72
Footprint Diameter (mm)	Ø282
Repeatability (mm)	±0.05
Tool Speed (m/s)	≤3.5
Average Power (W)	1000
Peak Power (W)	3000
Operating Temp. Range (°C)	0-50
Operating Humidity	90% RH (Non-condensing)
Mounting	Any angle
IP Classification	IP54 (Up to IP67)



Joint Motion

Joint	Range of Motion(°)	Max Speed (°/s)
joint 1	±360	104
joint 2	±360	104
joint 3	±170	178
joint 4	±360	296
joint 5	±360	296
joint 6	±360	296

* 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
I/O Interfaces		
Digital Input	16(Standard),16(Configurable)/8(Safety)	4(Standard)
Digital Output	16(Standard),16(Configurable)/8(Safety)	4(Standard)
Analog Input	2	2
Analog Output	2	-
RS485 Communication	2	1
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



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