

AUBO-iS20L

iS Series Collaborative Robot



20 KG
PAYLOAD



72 KG
WEIGHT



±0.05 mm
REPEATABILITY



2000 mm
WORKING RADIUS

- ✓ AUBO-iS20L high-performance collaborative robot, designed for high-speed operation in complex and sensitive environments
- ✓ Payload: 20 kg, Reach: 2210.5 mm, Max. Working Radius: 2000 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



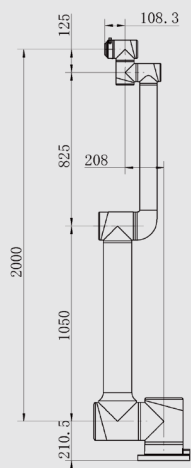
High Protection Grade



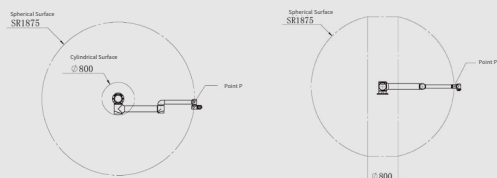
Compact Footprint



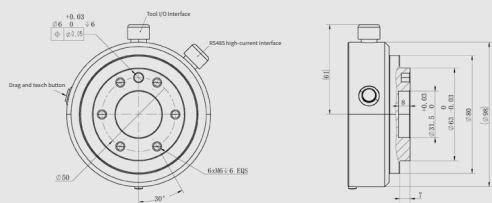
Modular Design



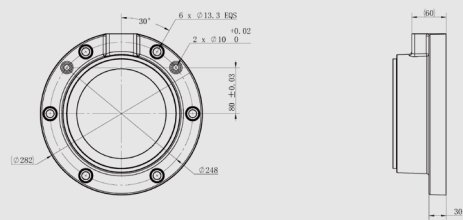
AUBO-iS20L Dimensions Diagram



AUBO-iS20L Point P Motion Range



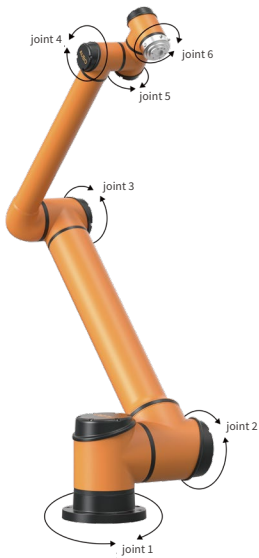
AUBO-iS20L End Flange



AUBO-iS20L Base Top View

Specification

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



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

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



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