

AUBO-iS20L



20KG
Payload



65KG
Robot Weight



±0.05mm
Repeatability



2000mm
Reach

- ✓ AUBO-iS20L High-Performance cobot – Featuring high-speed arm movement, it is capable of meeting operational requirements in complex and sensitive environments.
- ✓ Payload: 20kg | Arm Span: 2259.5mm | Max. Working Radius: 2000mm
- ✓ High performance, rapid response, compact and lightweight

Applications:

The iS Series is widely applicable across various industrial scenarios, particularly suited for precision manufacturing, spraying, and demanding/sensitive environments.



Advantages

- 01 Modular & Easy Replacement.** Featuring an integrated modular design with 6 standard module specifications, enabling rapid replacement and simplified maintenance.
- 02 Enhanced Performance with High Precision & Speed.** Compared to the i Series, it achieves great improvement in repeatability, absolute accuracy, and trajectory accuracy, with faster arm movement speeds.
- 03 Redesigned for Robust Protection.** Payload-to-weight ratio up to 1:3.2 with optimized core components and new control algorithms. Fully enclosed structure with a maximum IP68 protection rating.
- 04 Compact & Versatile.** New teach pendant weighs only 1kg; control cabinet footprint reduced by 50%. Multi-functional tool end as standard, broadening application scope.



High Performance



High Precision



Rapid Response



Safe and Stable



Modular Design



Flexible Production



Fine Workmanship

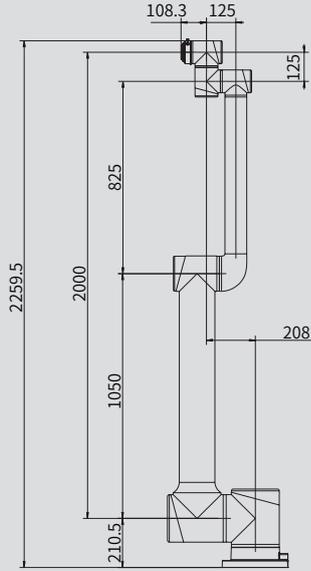


High Protection Level

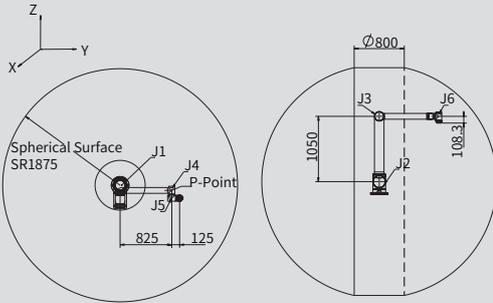


Compact and Portable

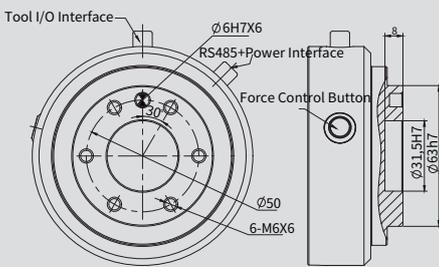
••• Others



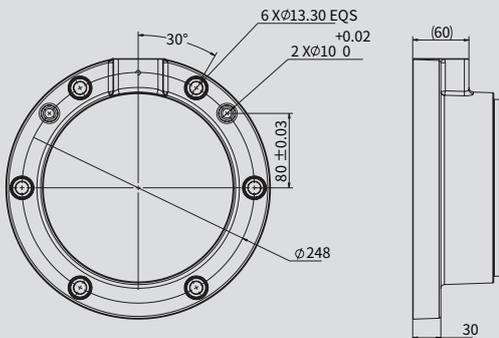
AUBO-iS20L Outline Dimension Drawing



AUBO-iS20L P-Point Motion Range



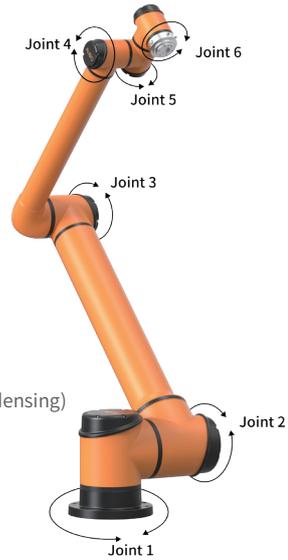
AUBO-iS20L End Flange



AUBO-iS20L Base Top View

Robotic Arm

Degrees of Freedom	6
Reach (mm)	2000
Payload (kg)	20
Weight (kg)	65
Mounting Surface Diameter (mm)	Ø282
Repeatability (mm)	±0.05
Linear Velocity (m/s)	≤4.2
Average Power(W)	1200
Peak Power (W)	3000
Ambient Temperature (°C)	0-50
Ambient Humidity	90% relative humidity (non-condensing)
Installation Orientation	Any angle
IP Classification	IP67 (up to IP68)
ISO 14644-1 Cleanliness Class	5



Joint Motion Parameters

	Range of Motion (°)	Maximum Speed (°/s)
joint 1	±360	93.1
joint 2	±360	93.1
joint 3	±168	178
joint 4	±360	237.6
joint 5	±360	237.6
joint 6	±360	237.6

*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
Size (L*W*H)	400mm*160mm*320mm
Weight	12.5kg
Cable Connecting Robot	5m(customizable, up to 8m)
Cable Connecting Pendant	4m
Cable Connecting Power	5m
Communication	EtherNet, ModBus-RTU/TCP; Optional EtherCAT, EtherNet/IP, Profinet
Interface	SDK(C++/Python/JavaScript Windows + Linux), SupportsROS/ROS2
Power Supply	100-240VAC,50-60Hz
IP Classification	IP43



Control Box I/O & Tool End I/O

	Control Box	Tool End
I/O Interface	Digital Input	8 (Expandable) / 8 (Safety)
	Digital Output	8 (Expandable) / 8 (Safety)
	Analog Input	2
	Analog Output	2
	RS-485	1
I/O Power Supply	Output Voltage	24V
	Output Current	2A

Teach Pendant

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

