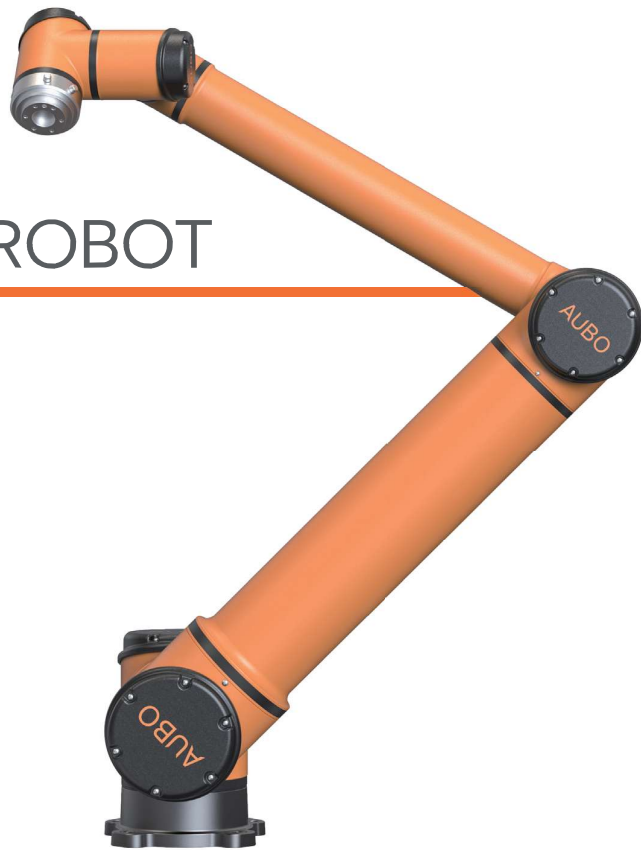


AUBO-iS20


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

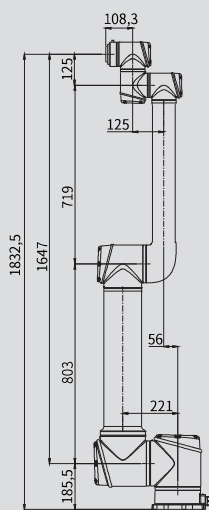
The iS-series is suitable for a wide range of industrial scenarios and is particularly suited for advanced manufacturing, painting, and specialized applications in harsh environments.



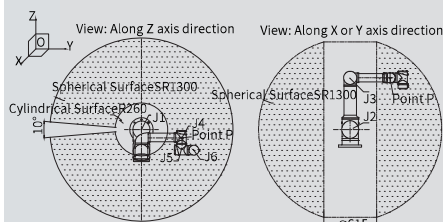
Features and Benefits

- 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.

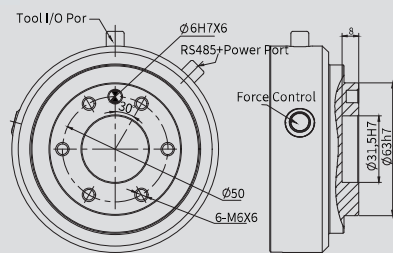




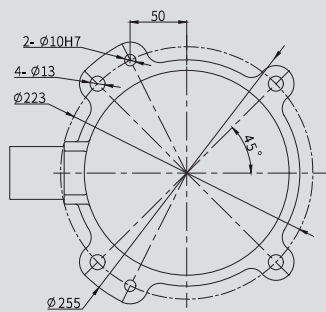
AUBO-iS20 Dimensions



AUBO-iS20 Moving Range of Point P



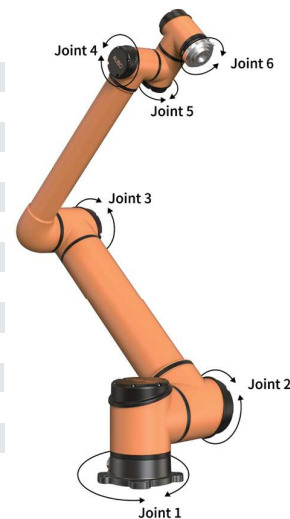
AUBO-iS20 Tool End Flange



AUBO-iS20 Top View of Base

Robot

Degrees of Freedom	6
Reach (mm)	1647
Payload (kg)	20
Weight (kg)	64
Mounting Surface Diameter (mm)	Ø255
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
	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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