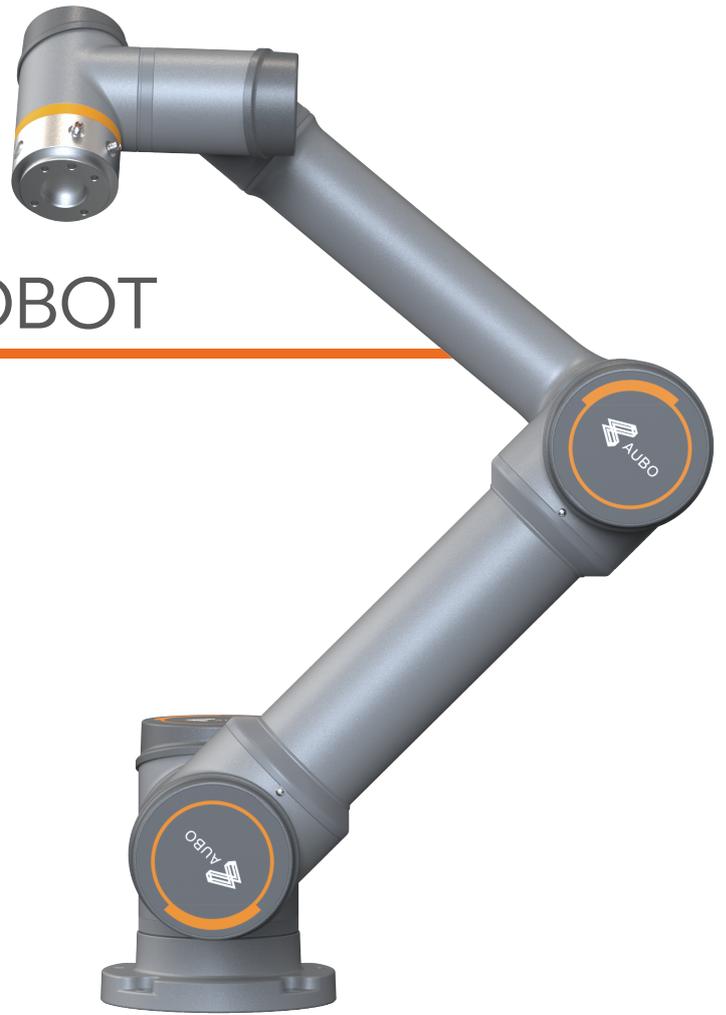


AUBO-iS7

iS SERIES

COLLABORATIVE ROBOT



7KG
Payload



21.5KG
Weight



±0.02mm
Repeatability



886.5mm
Reach

- ✓ The AUBO-iS7 is a high-performance collaborative robot with a swift motion of its mechanical arms, catering to the operational demands in complex and sensitive environments.
- ✓ It has a payload of 7 kg and offers a reach span of 1008.5 mm and a maximum working radius of 886.5mm.
- ✓ Designed for high performance, rapid response, and compact, lightweight convenience.

Application Fields

The iS-series is suitable for a wide range of industry scenarios and is particularly suited for precision manufacturing, spraying, and other specialized applications in harsh and sensitive environments.



Product Advantages

- 01 **Modular Design, Easy to Replace** AUBO iS-series cobots feature an integrated modular design with six standard modules of different specifications, 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 repeatability accuracy, absolute accuracy, and path accuracy, with the robot arm operating at a higher speed.
- 03 **New Design, Higher Protection Level** The highest 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 teaching pendant weighs only 1kg, and the floor space of the new control cabinet is reduced by 50%; it comes standard with a multifunctional tool end, enabling a broader range of applications.



High Performance



High Precision



Rapid Response



Safe and Stable



Modular Design



Flexible Production



Fine Workmanship

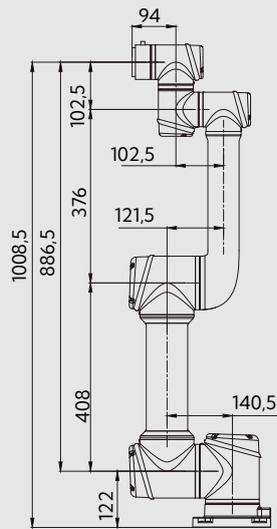


High Protection Level

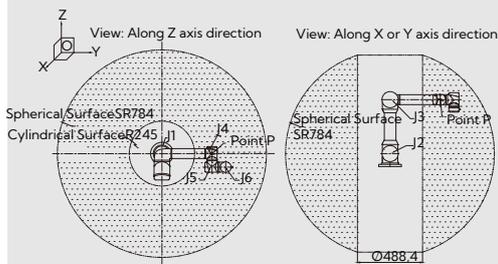


Compact and Portable

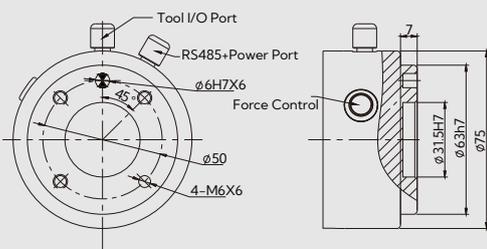
••• Others



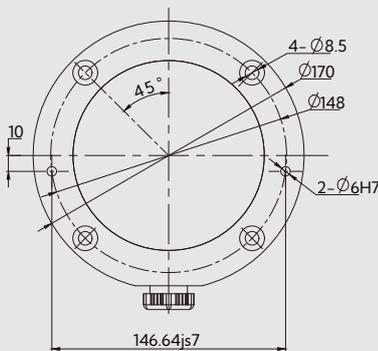
AUBO-iS7 Dimensions



AUBO-iS7 Moving Range of Point P



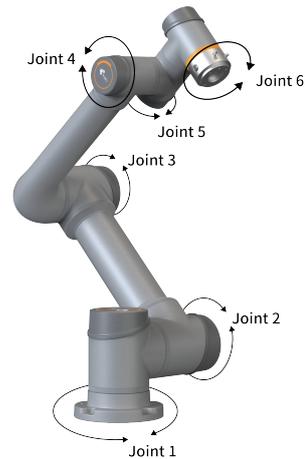
AUBO-iS7 Tool End Flange



AUBO-iS7 Top View of Base

Robot

Degrees of Freedom	6
Reach (mm)	886.5
Payload (kg)	7
Weight (kg)	21.5
Mounting Surface Diameter (mm)	Ø170
Repeatability (mm)	±0.02
Linear Velocity (m/s)	≤3.6
Average Power(W)	200
Peak Power (W)	2000
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	237.6
joint 2	±360	237.6
joint 3	±162	237.6
joint 4	±360	296.3
joint 5	±360	296.3
joint 6	±360	296.3

*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-IS-CB-M
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; EtherCAT, EtherNet/IP, Profinet (Optional)
Interface	SOK (Support C/C++/C#/Lua/Python), Support ROS, API
Incremental Encoder	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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