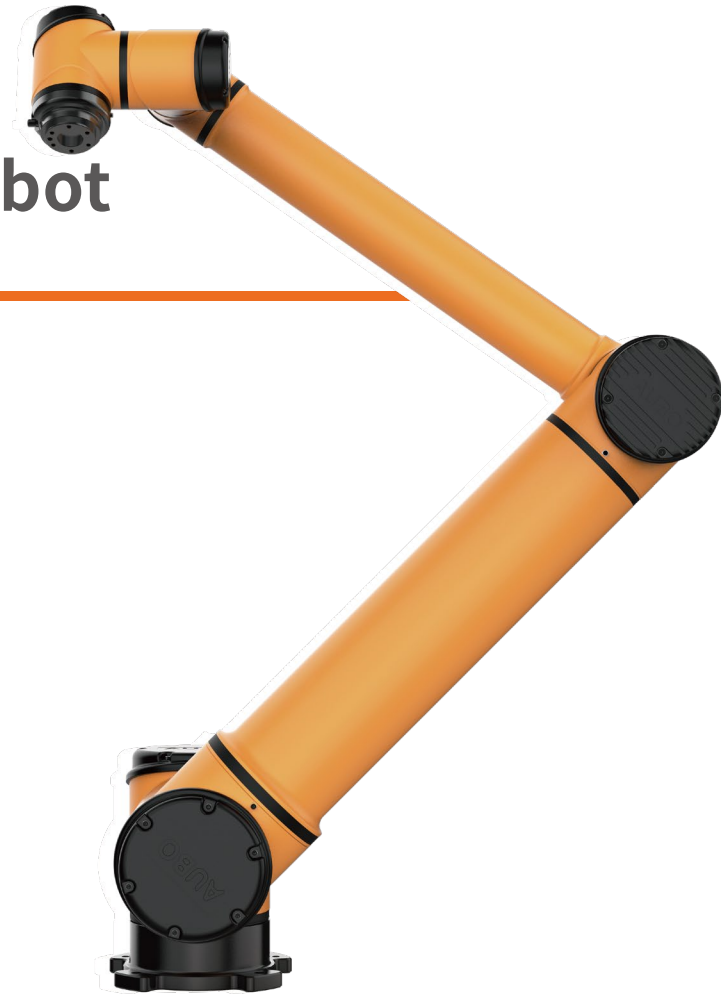


AUBO-i20

i Series Collaborative Robot



20 KG
PLAYLOAD



63.7 KG
WEIGHT



±0.05 mm
REPEATABILITY



1650 mm
WORKING RADIUS

- ✓ Supports a 20 kg payload and $\pm 360^\circ$ joint rotation for greater operational flexibility
- ✓ Delivers a maximum reach of 1650 mm with high repeatability of ± 0.05 mm for precise performance
- ✓ Features an industry-leading 1:3 payload-to-weight ratio, making it ideal for heavy-duty applications

Applications

3C Electronics, Automotive, New Energy, Semiconductor, Machining, Hardware & Home Appliances, Kitchen & Bathroom Products, Healthcare, Education & Research, Food & Beverage, Retail, Daily Chemical, and Logistics



CERTIFICATIONS

- ISO 13849-1 (PL d, Category 3)
- CE Certification
- NRTL Certification
- KC Certification
- SEMI S2 Certification
- RoHS Certification
- Reach Certification
- ISO Class 4 Cleanroom Suitable



Features & Advantages

- 01 Heavy Payload & High Precision:** 20 kg payload, 1650 mm reach, ± 0.05 mm repeatability, and a 1:3 payload-to-weight ratio
- 02 Safe Collaboration:** Support force sensors for collision detection and drag-to-teach
- 03 Intuitive Operation:** Visual interface; master programming in 30 minutes
- 04 Open System:** Supports SDK/API and diverse protocols for seamless integration with grippers, vision, and mobile peripherals



High Performance



High Precision



Fast Response



Flexible Production



Precision Machining



Safety and Stability



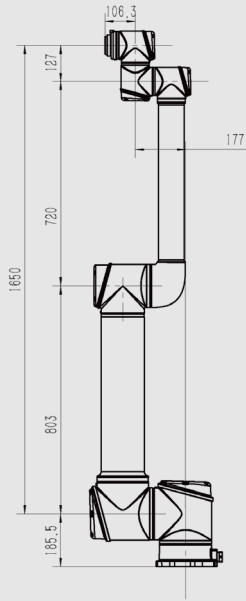
High Protection Grade



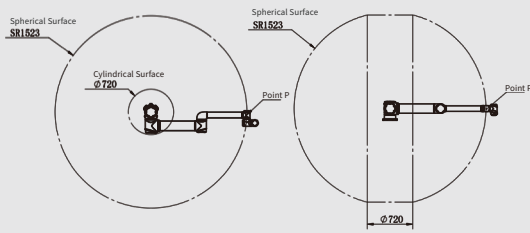
Compact Footprint



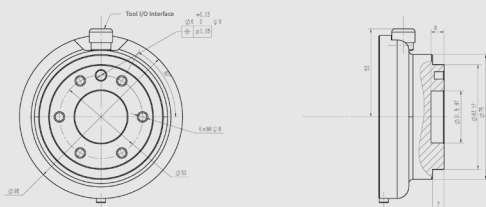
Modular Design



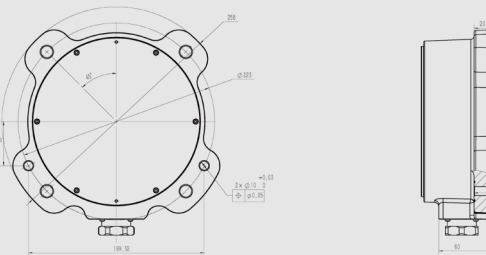
AUBO-i20 Dimensions Diagram



AUBO-i20 Point P Motion Range



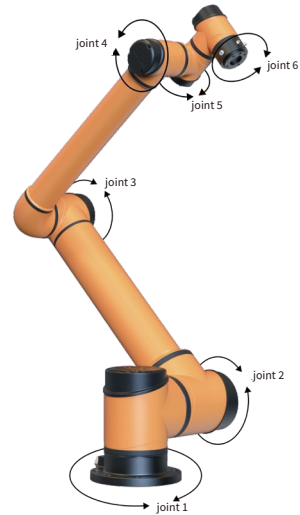
AUBO-i20 End Flange



AUBO-i20 Base Top

Specification

Degrees of Freedom	6
Max Working Radius	1650 mm
Payload	20 kg
Weight	63.7 kg
Footprint Diameter	Ø260
Repeatability	±0.05
Tool Speed	≤2.6 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



Joint Motion	Joint 1	Joint 2	Joint 3	Joint 4	Joint 5	Joint 6
Range of Motion	±360°	±360°	±168°	±360°	±360°	±360°
Max Speed	110 °/s	110 °/s	178 °/s	178 °/s	178 °/s	178 °/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)
	Digital Output	16 (Standard), 16 (Configurable) / 8 (Safety)
	Analog Input	2
	Analog Output	2
	485 Communication	2
I/O Power	Output Voltage	24 V
	Output Current	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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