



i-Series Industrial
AUBO-i20

COLLABORATIVE ROBOT

COLLABORATION CREATES THE FUTURE

6 axis **20 Kg** payload **1650** mm reach



NRTAC



i-Series Industrial AUBO-i20

ROBOT SPECIFICATIONS

Degrees of Freedom	6 axes
Reach	1650 mm
Payload	20 Kg
Weight	63 Kg
Collaboration	Collaborative operation according to ISO 10218-1 : 2011
Repeatability	± 0.1 mm
Linear Velocity	≤ 2.6 m/s
Power Consumption	1000 W (under normal working conditions)
Materials	Aluminum, Steel, Plastic
Ambient Humidity	90% RH (Non-condensing)
Ambient Temperature	0 - 50°C
IP Classification	IP54
Programming	Teach Pendant with graphical user interface
Mounting Surface	ø260 mm
Installation Orientation	Any Ceiling, Floor, Wall

CONTROL BOX

Dimensions (LxWxH)	410x390x285 mm
Weight	16 kg
Cabling	5 m (customizable, up to 8 m)
Color	Black
Communication	Ethernet, Modbus-RTU/TCP, Profinet (Option)
Interface	SDK (Supports C/C++/Lua/Python) Supports ROS, API
Power supply	100-240 VAC, 50-60 Hz
IP Classification	IP43

I/O PORTS

	General I/O	Safety I/O
Digital in	16	16
Digital out	16	16
Analog in	4	-
Analog out	4	-
Output Voltage	24 V	
Output Current	3 A Max	

TEACH PENDANT

Dimensions (LxWxH)	355x235x54 mm
Weight	1.57 kg
Display	30 cm Touch LCD Screen
Cabling	4 m
IP Classification	IP43
Color	Orange

AXIS MOVEMENT

	Working Range (°)	Maximum Speed (°/s)
Joint 1	±360°	93 (°/s)
Joint 2	±360°	93 (°/s)
Joint 3	±360°	178 (°/s)
Joint 4	±360°	178 (°/s)
Joint 5	±360°	178 (°/s)
Joint 6	±360°	178 (°/s)

* Limited by the application scenario, part of the joints may not achieve ±360°

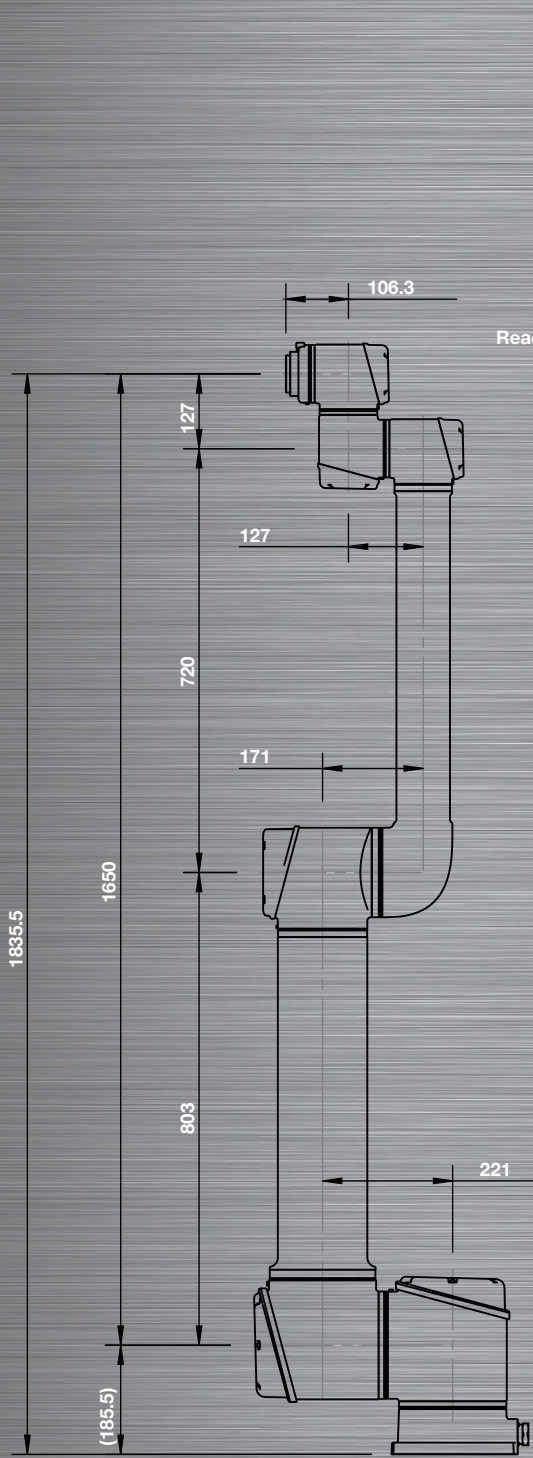
I/O PORT ON WRIST

Voltage	Current	Digital In	Digital Out	Analog In	Analog Out
0/12/24 V	0.8 A	4	4	2	0

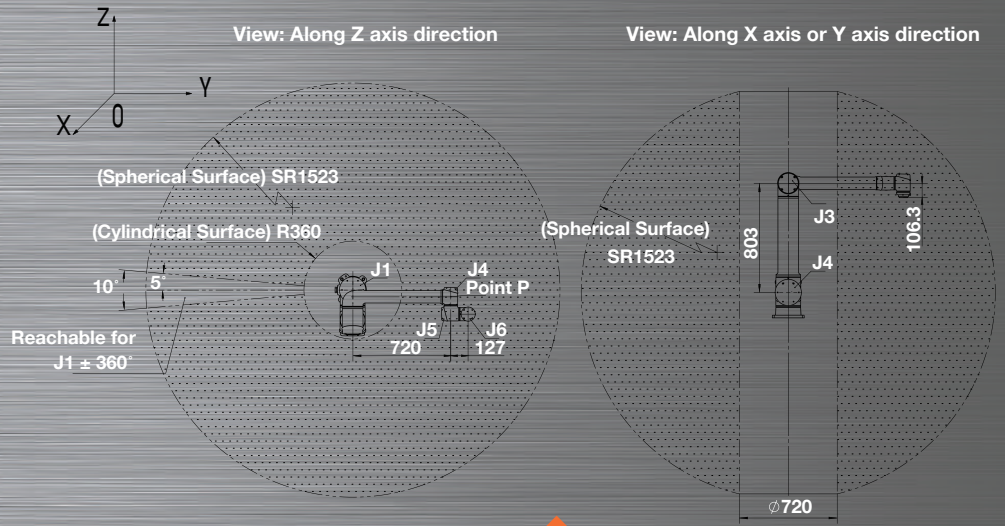




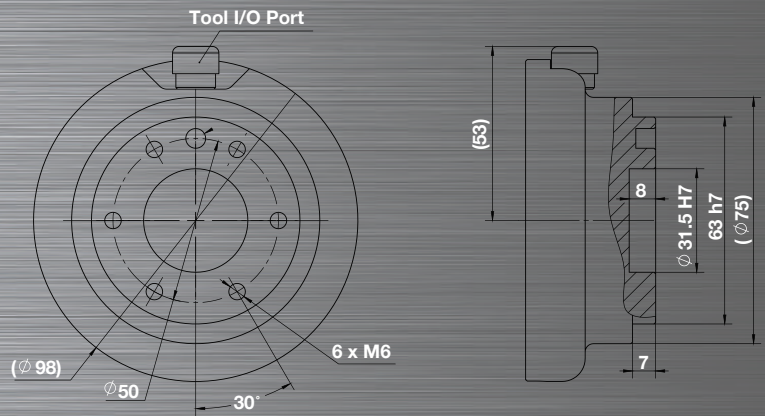
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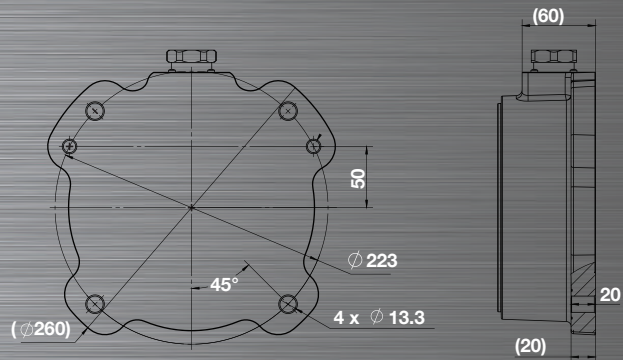
AUBO-i20 Dimensions Drawing



AUBO-i20 Moving Range of Point P



AUBO-i20 Tool End Flange



AUBO-i20 Tool View of Base



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Flexible Deployment

- Light, compact and small footprint.
- It takes only half a day in average to deploy the arm to execute new tasks.



Flexible Production

- With quick changeover of multiple function scenarios, human-machine collaboration, dual-machine collaboration and multi-machine collaboration, etc. can be adopted to realize flexible production.



Simple Programming

- It is available to master the programming method in half an hour, and complete simple programming in 1 hour.
- Dragging teaching and visualized programming to make the operation simple and efficient, you can operate robots easily without being proficient in programming language.



Wide Application

- The products have been applied in batches in the fields such as 3C, automobile, hardware and household appliances, sanitary appliances for kitchens and bathrooms, medical health, scientific research and education, catering, new retail, chemical products for daily use, and logistics.



Safety and Stability

- The products have passed the certification of EN ISO 13849-1:2015(PL=d, CAT 3), CE, UL, KCs, SEMI S2, etc.
- Level-10 collision detection and sensor safety testing are supported.
- The terminal does not drop in case of power failure, so the products are safe and stable.
- 16 safe I/O interfaces are provided, so the safety function does not lose in case of single failure.



System Opening

- Connection of multi-language environments, multiple communication protocols, and deep integration with third-party plug-ins.
- Communication protocols: TCP/IP, Modbus-RTU/TCP, Profinet.
- Interface and openness: SDK (supporting the development of C/C++/C#/Lua/Python), API.
- Supporting Linux, Windows and Robot Operating System (ROS).



Modularization

- It's available to realize fast dismantlement and replacement within 15 minutes.
- The repair and maintenance are quicker and more convenient.



High Return on Investment

- Key and core components are 100% manufactured in China.
- The investment cost can be recovered within 6~12 months on average.



High Precision

- Millisecond-level system response ensures repeatability.
- The repeatability can be up to $\pm 0.02\text{mm}$.



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