

# AUBO i20

Technical Specifications & Data Sheet

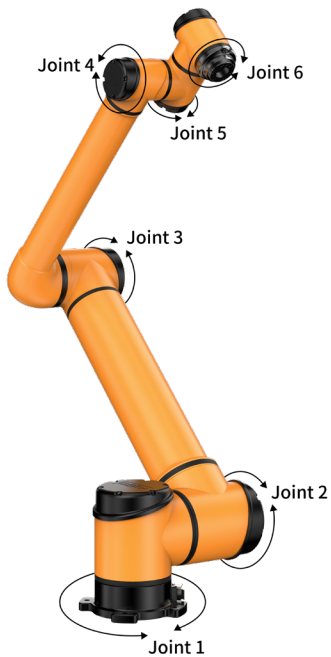
6 Axis  
20kg Payload  
1650mm Reach

Your AUBO Distributor



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The AUBO i20 medleys the best of safety and precision from collaborative robots with all of the toughness you'd expect from an industrial robot. The i20's power force limiting technology coupled with a smaller footprint makes it the perfect high-tier performance automation solution while retaining collaborative capabilities. The AUBO i20 is designed for a wide range of heavy-duty applications but excels in applications that demand extra performance like palletizing, packaging, and load-carrying.

### SPECIFICATIONS

|                         |                                         |
|-------------------------|-----------------------------------------|
| Payload                 | 20 kg                                   |
| Reach                   | 1650 mm                                 |
| Weight                  | 63 kg                                   |
| Mounting Base Footprint | Ø260 mm                                 |
| Avg. Power Consumption  | 1000 W                                  |
| Peak Power Consumption  | 3000 W                                  |
| Operating Temperature   | 0-50 °C                                 |
| Humidity                | 90% Relative Humidity (No Condensation) |

### CONTROL BOX SPECIFICATIONS

|                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| Size (L x W x H)                  | 390mm x 370mm x 265mm                             |
| Weight                            | 15 kg                                             |
| Robot Cable Length (Customizable) | 5 m                                               |
| Teach Pendant Cable Length        | 4 m                                               |
| Power Supply Cable Length         | 5 m                                               |
| Communication Protocols           | Ethernet TCP/IP, ModBus-RTU/TCP, Profinet         |
| <b>I/O Ports</b>                  |                                                   |
| Digital Input                     | 16 (User) / 16 (Safety)                           |
| Digital Output                    | 16 (User) / 16 (Safety)                           |
| Analog Input                      | 4                                                 |
| Analog Output                     | 4                                                 |
| I/O Power Supply                  | 24V 3A                                            |
| Power Supply Requirements         | 100-240VAC, 50-60Hz                               |
| Open Source Development Support   | SDKs in C/C++/C#/Lua/Python, ROS, Plug-in Support |

### MOVEMENT

|                          |          |
|--------------------------|----------|
| Repeatability (ISO 9283) | ±0.1 mm  |
| Tool Velocity            | ≤2.6 m/s |

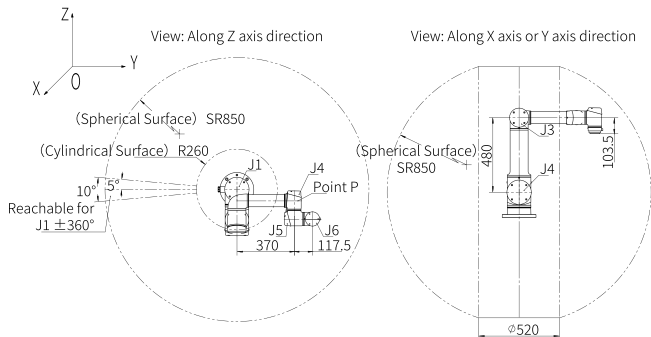
| Axis Movement | Working Range | Maximum Speed |
|---------------|---------------|---------------|
| J1 Base       | ±360 °        | 93 °/s        |
| J2 Shoulder   | ±360 °        | 93 °/s        |
| J3 Elbow      | ±360 °        | 178 °/s       |
| J4 Wrist      | ±360 °        | 178 °/s       |
| J5 Wrist      | ±360 °        | 178 °/s       |
| J6 Wrist      | ±360 °        | 178 °/s       |

### FEATURES

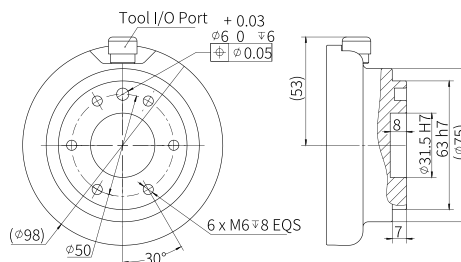
|                             |                 |
|-----------------------------|-----------------|
| Mounting Orientation        | Any Orientation |
| IP Classification           | IP 54           |
| ISO 1644-1 Clean Room Level | Class 5         |

| Tool I/O Ports |                  |
|----------------|------------------|
| Digital Input  | 4 (Customizable) |
| Digital Output | 4 (Customizable) |
| Analog Input   | 2                |
| Analog Output  | -                |

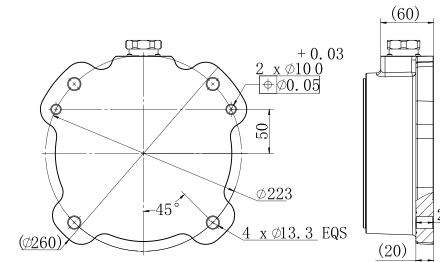
| I/O Power Supply |            |
|------------------|------------|
| Output Voltage   | 0V/12V/24V |
| Output Current   | 0.8A       |



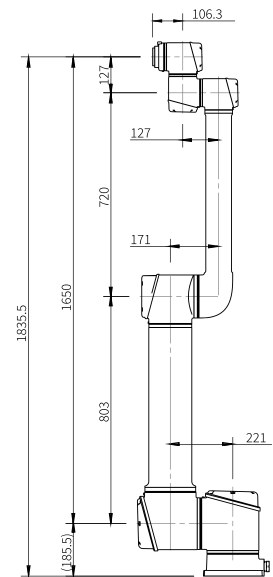
WORKSPACE DIMENSIONS



END FLANGE DIMENSIONS



ROBOT BASE TOP VIEW



PRODUCT DIMENSIONS