



www.elephantrobotics.com



The World's Smallest 6-Axis Collaborative Robot

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Warning

BEFORE USING MYCOBOT READ ALL INSTRUCTIONS AND CAUTIONARY MARKINGS IN THIS MANUAL

1. Do not expose the product to rain or moisture to reduce fire or shock hazard.
2. Do not place the product in or near fire.
3. Do not leave the product in a car in hot or humid weather.
4. Do not disassemble, crush or pierce the product.
5. Do not expose the product to excessive shock such as dropping from a high place.
6. Do not expose the product to high temperatures above 60 °C (140 °F).

DANGER

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

 **myCobot**
myCobot-500



World's Smallest 6-Axis Collaborative Robot



myCobot is the world's smallest and lightest six-axis collaborative robot, jointly produced by Elephant Robotics and M5 Stack. With a weight of 850g, a payload of 500g and an arm length of 350mm, myCobot is compact but powerful, can carry on the secondary development according to the demands of users to achieve personalized customization. myCobot can not only be matched with a variety of end effectors to adapt to different kinds of application scenarios but also support secondary development of multi-platform software to meet the needs of various scenarios such as scientific research and education, smart home, light industry and commercial applications.



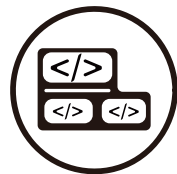
Unique industrial design, extremely compact

myCobot is an integrated modular design and only weighs 850g which is easy to carry. Its overall body structure is compact with less spare parts and can be quickly disassembled and replaced to realize plug and play.



High configuration & Equipped with 2 Screens

myCobot contains 6 high-performance servo motors with fast response, small inertia and smooth rotation. The body carries two display screens supporting fastLED library to show the expanded application scene more easily and clearly.



Lego Connector & Thousands of M5 Ecological Application

The base and end of myCobot are equipped with Lego Connector, which is suitable for the development of various miniature embedded equipment. Its base is controlled by M5 Stack Basic, and thousands of application cases can be used directly.



Bloky Programming & Supporting Industrial ROS

Using UI Flow visual programming software, programming myCobot is simple and easy for everyone. You can also use RoboFlow, software of industrial robots from Elephant Robotics, supporting multiple functional modules Arduino + ROS open source system.

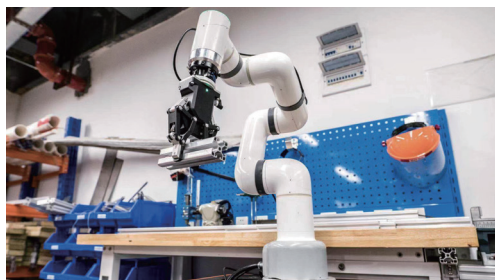
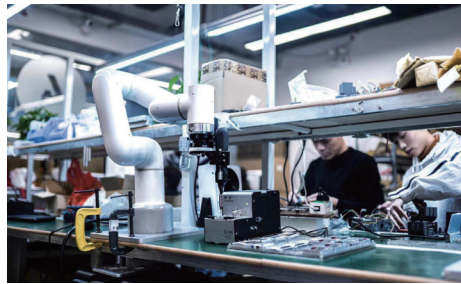


Track Recording & Learn by hand

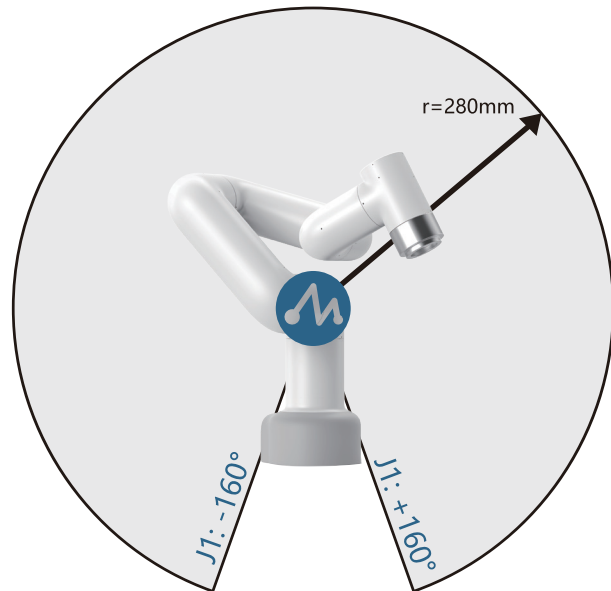
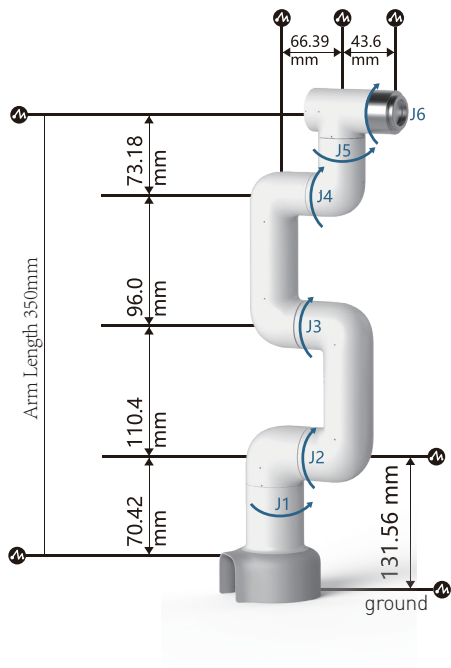
Get rid of the traditional point saving mode, myCobot supports drag trial teaching to record the saved track and can save up to 60mins different tracks, which makes it easy and fun for new players to learn.

myCobot - Design Prototype - Elephant Robot®C Series Robot

The design prototype of myCobot is from All-in-one Robot launched by Elephant Robot in China in 2018. As the first integrated collaborative robot in China, it has won the 2019 CAIMRS Industrial Robot Innovation Award and 2019 High-tech Robot Annual "Innovation Technology Award", and has been also sold to more than 30 countries at home and abroad, receiving unanimous praise and recognition from the factories of the world's top 500 enterprises.



myCobot - Size and Working Range Diagram



1. Parameter

Degree of Freedom	6
Maxixum Payload	500g (long range) 1000g (short range)
Arm span	350mm
Working radius	280mm
Repeatability	±0.2mm
Weight	850g
Power input	8V, 5A
Working temp.	-5 ~ 45°
Communication	USB/Type-C

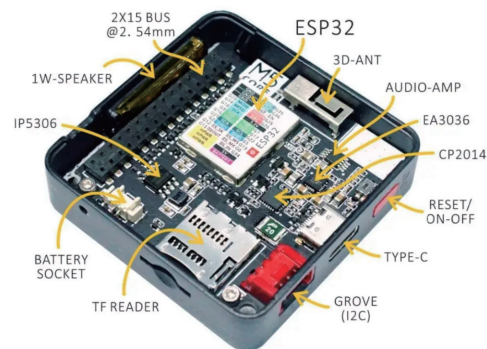
Sub-Control borad parameters

Model	M5 Atom
Micro-processor	ESP32, 240MHz Dual-core 520KB SRAM
Flash	4MB
Installation	Behind Joint 6
LED Display	WS2812C 2020 X25
Software	Not open source, Firmware Burn

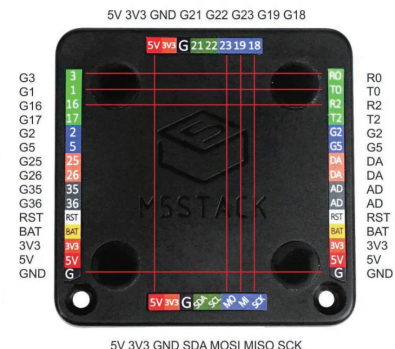
Main control board parameters

Model	M5 Basic
Micro-processor	ESP32, 240MHz dual core, 520KB SRAM
Flash	16MB
wireless	2.4g 3D antenna Bluetooth
Installation	Center of Base
Display	320x240 Full-color TFT LCD Brightness:853nit
Speaker	1W-0928
IO Interface	PIN (G1, G2, G3, G16, G17, G18, G19, G21, G22, G23, G25, G26, G35, G36)
Software	Built-in track recording Built-in correction procedures Arduino UIFlow RoboFlow

2. M5 Control Board Pin Map



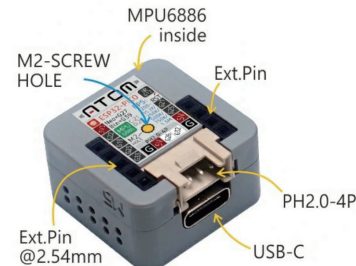
M5 Basic side pin diagram1



M5 Basic side pin diagram1



Atom diagram



Atom pin diagram

Contact us

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