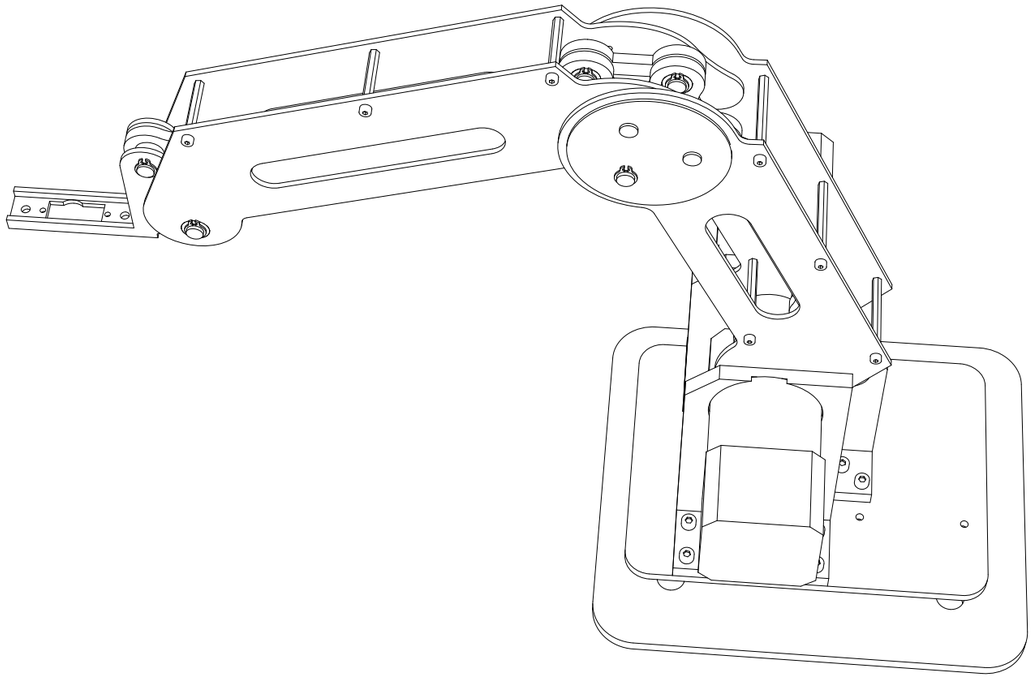
Dobot User Manual

Dobot User Manual

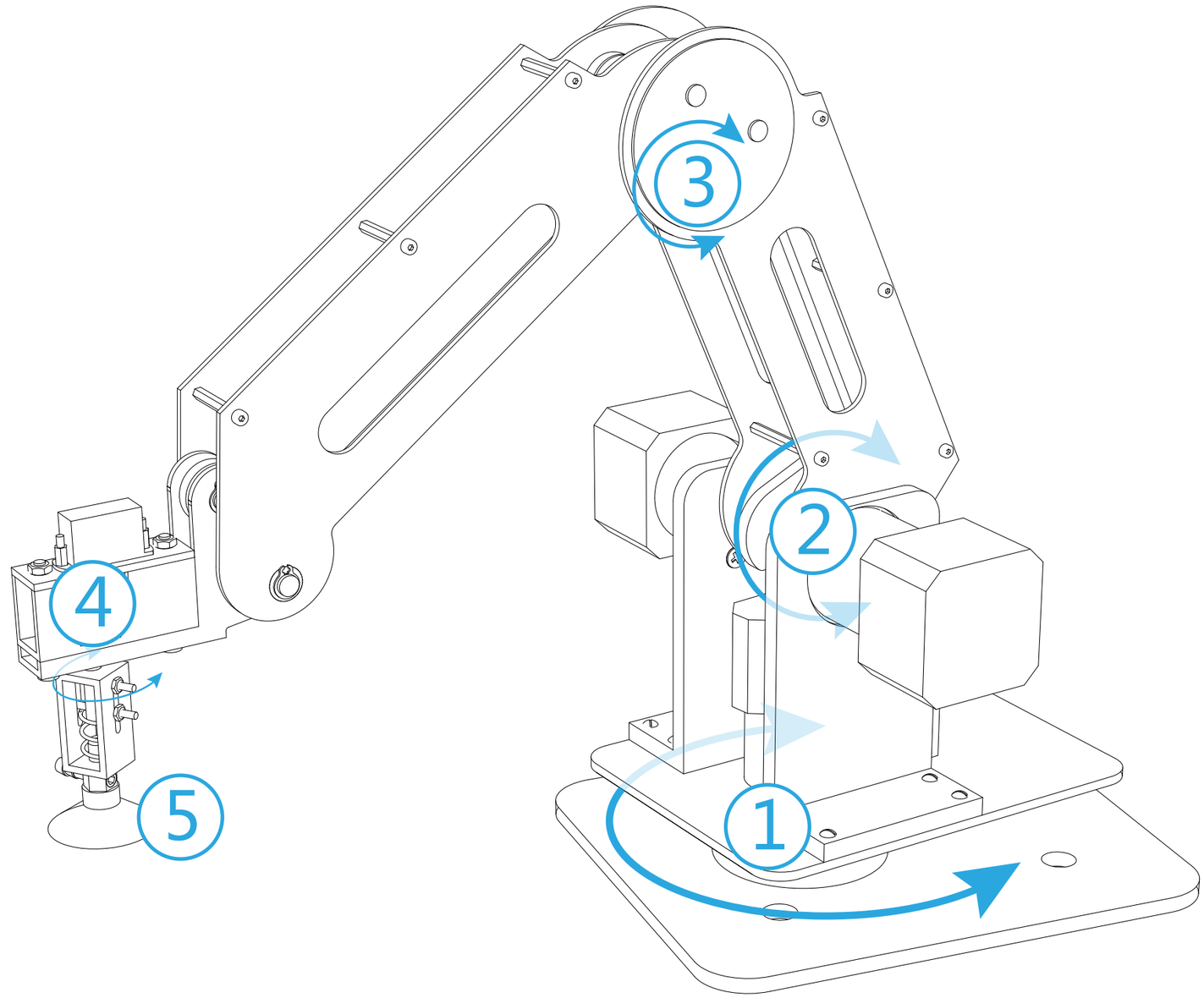
Founded by a group of top industrial robot experts and engineers, the Dobot team is devoted to instilling its ingenuity, creativity, vision and quality into robot design.

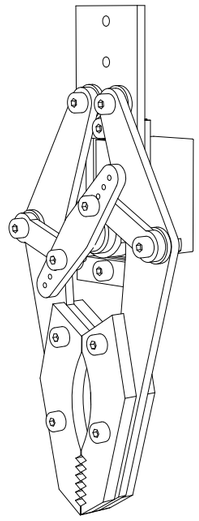
As the first of its category, Dobot is dedicated to bringing its industrial precision robot arm to every desktop, making robot not only highly functional and expandable for makers, but also interactive and fully accessible to non-makers. Interested in engineering, programming and robotics.



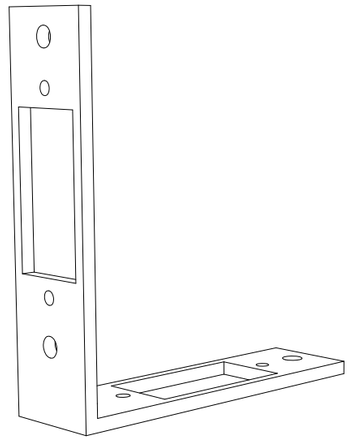
Introduction

1. Joint 1
2. Joint 2
3. Joint 3
4. Joint 4
5. Pump

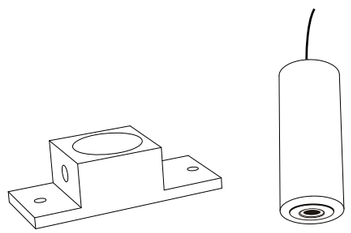




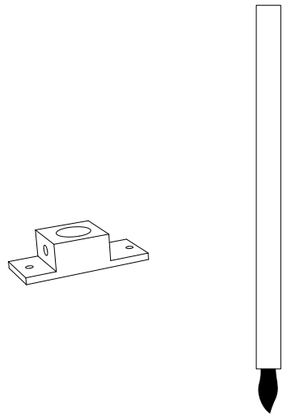
Gripper



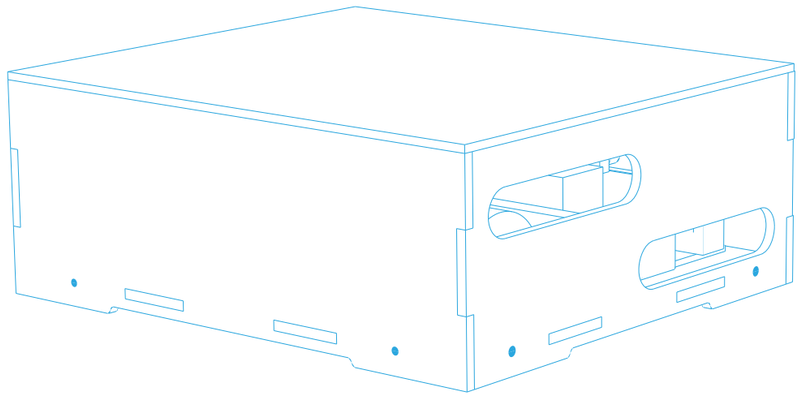
90°Transformer

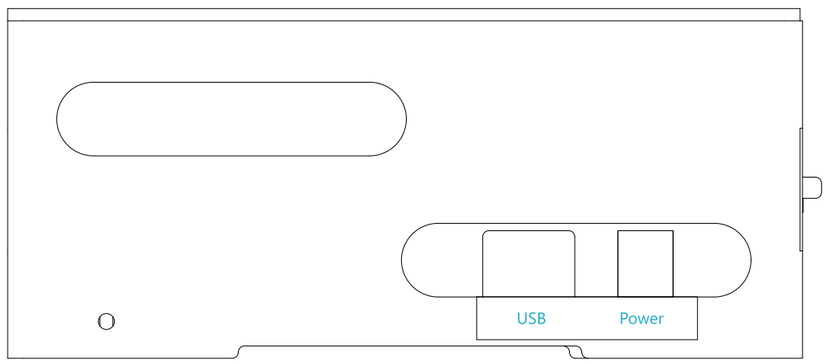


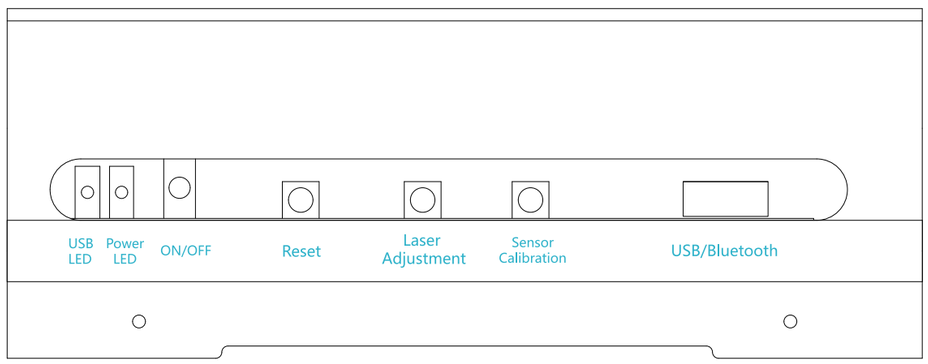
Laser & laser Holder



Pen & Pen Holder




USB
Power


USB
LED
Power
LED
ON/OFF
Reset
Laser
Adjustment
Sensor
Calibration
USB/Bluetooth

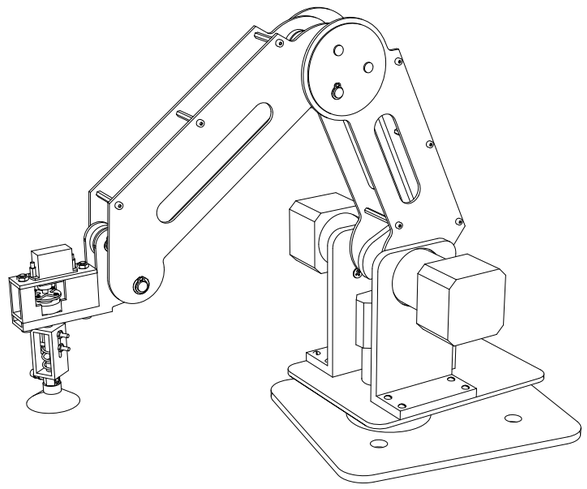
DobotFramework

Teach&Playback
Laser engraving
Draw
Write
Mouse&Keyboard
Leap motion
EGG
...

PC

- DobotApplication
- DobotTools

UART



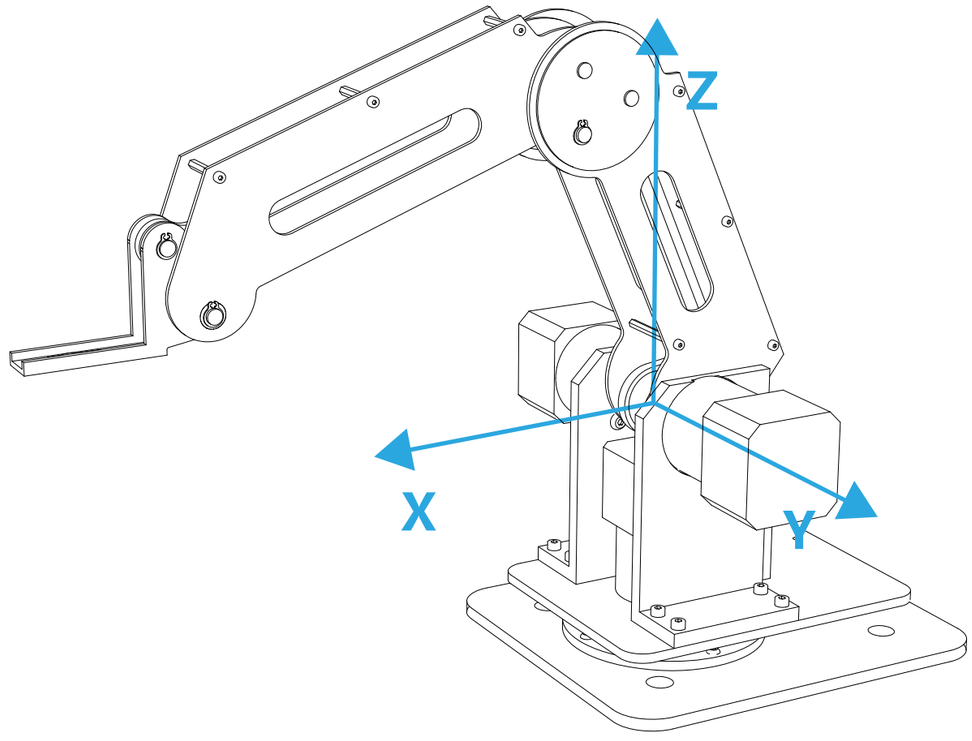
Control APP [ios/android]
Voice Control [Android]

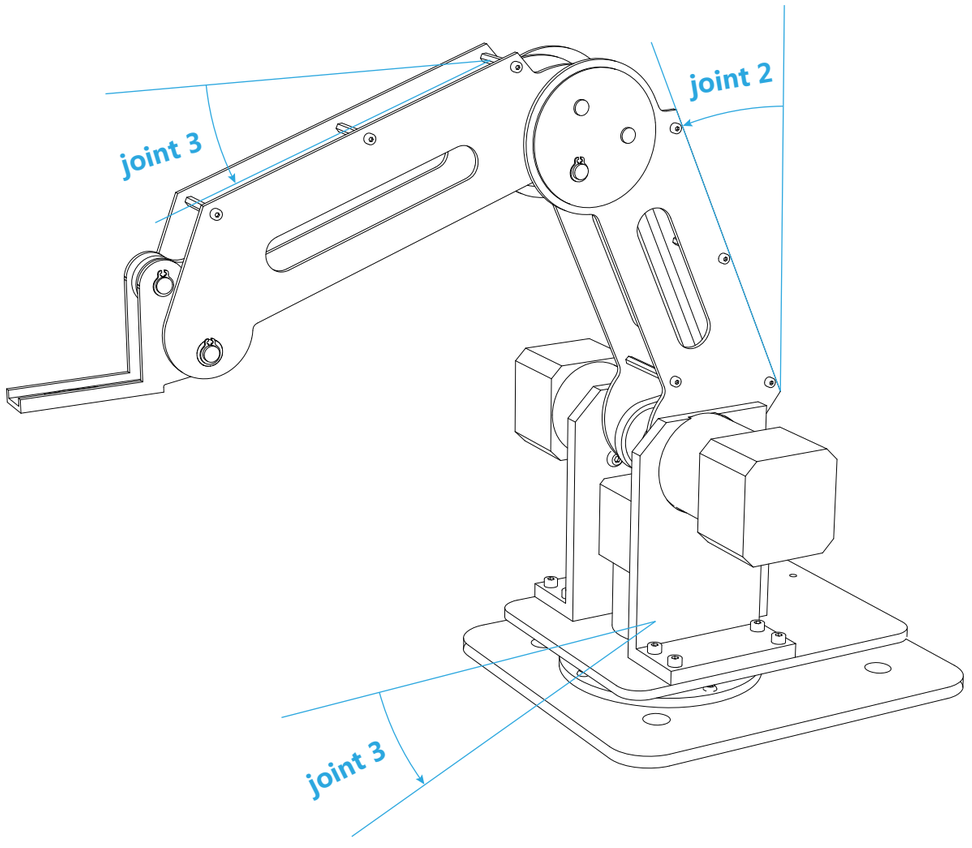
Phone

Bluetooth

Laser
Sucker
Gripper

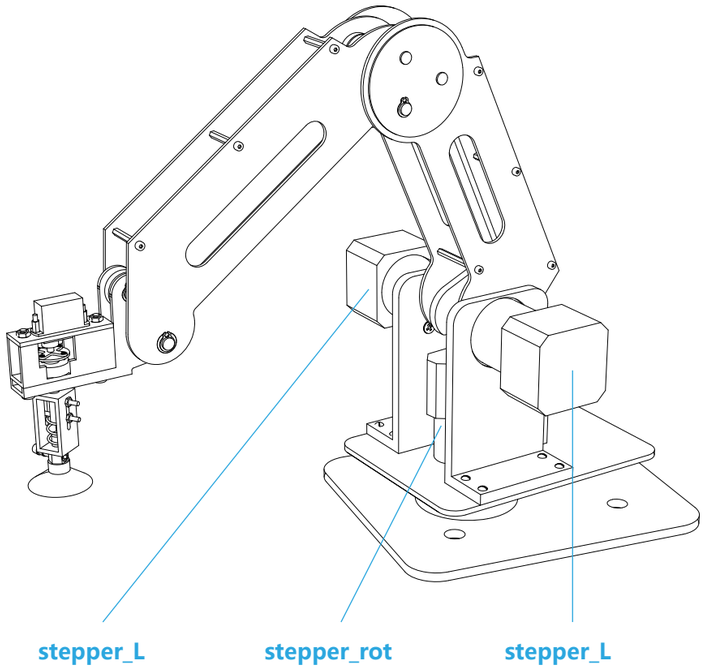
Reference Frame



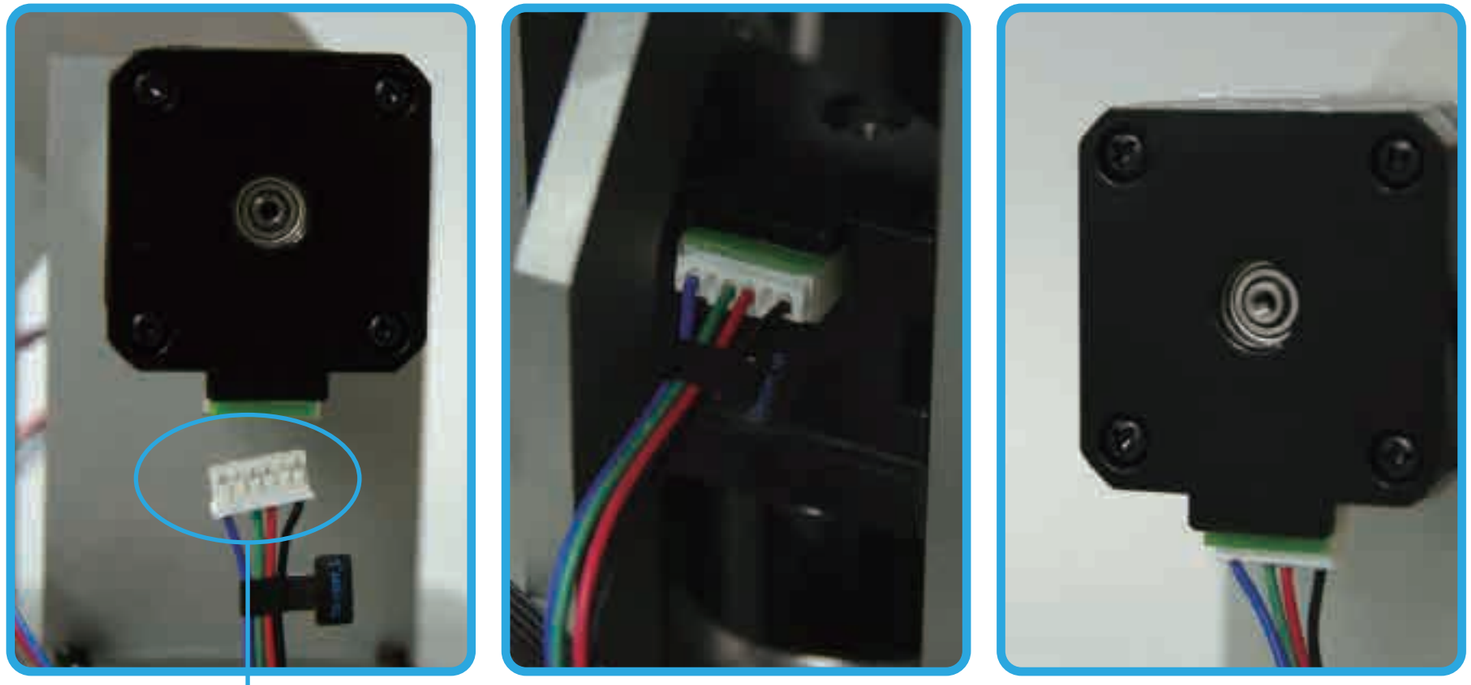


Get started

Step 1: Connect the cables

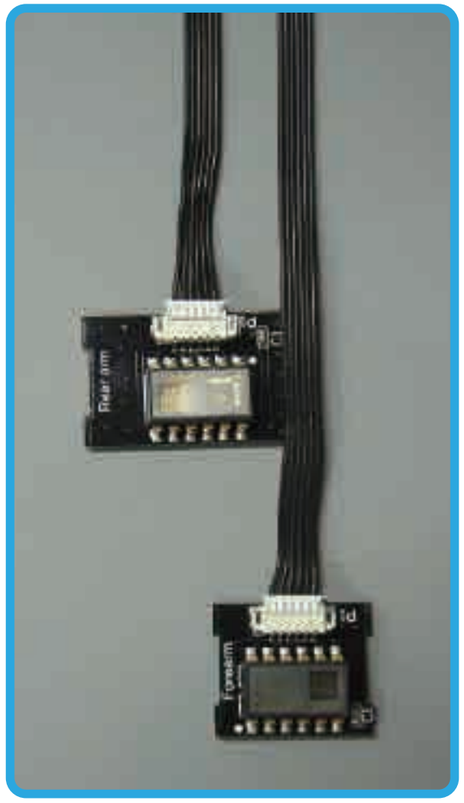


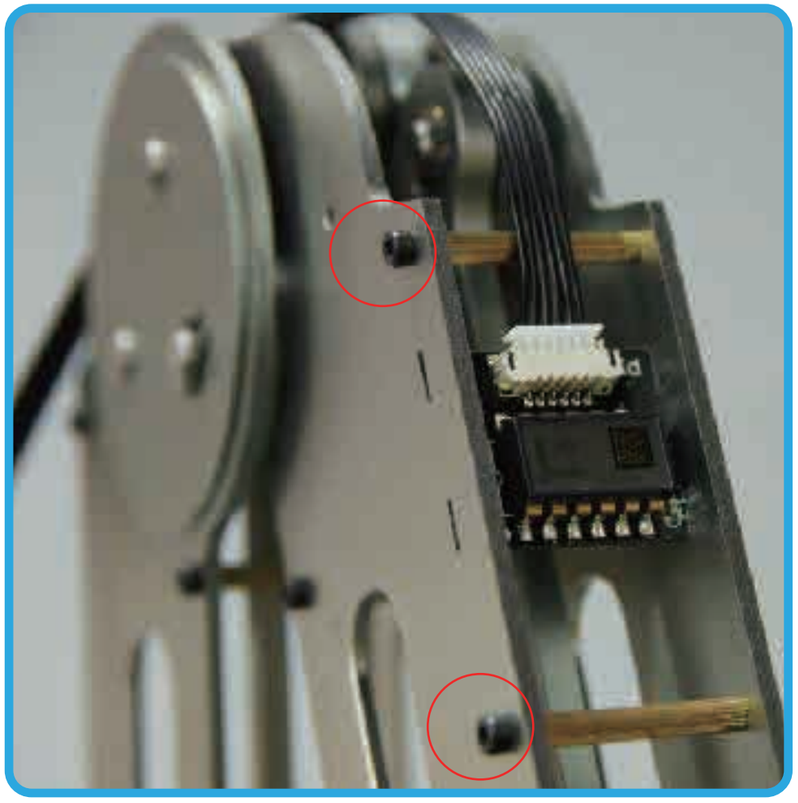
stepper motor

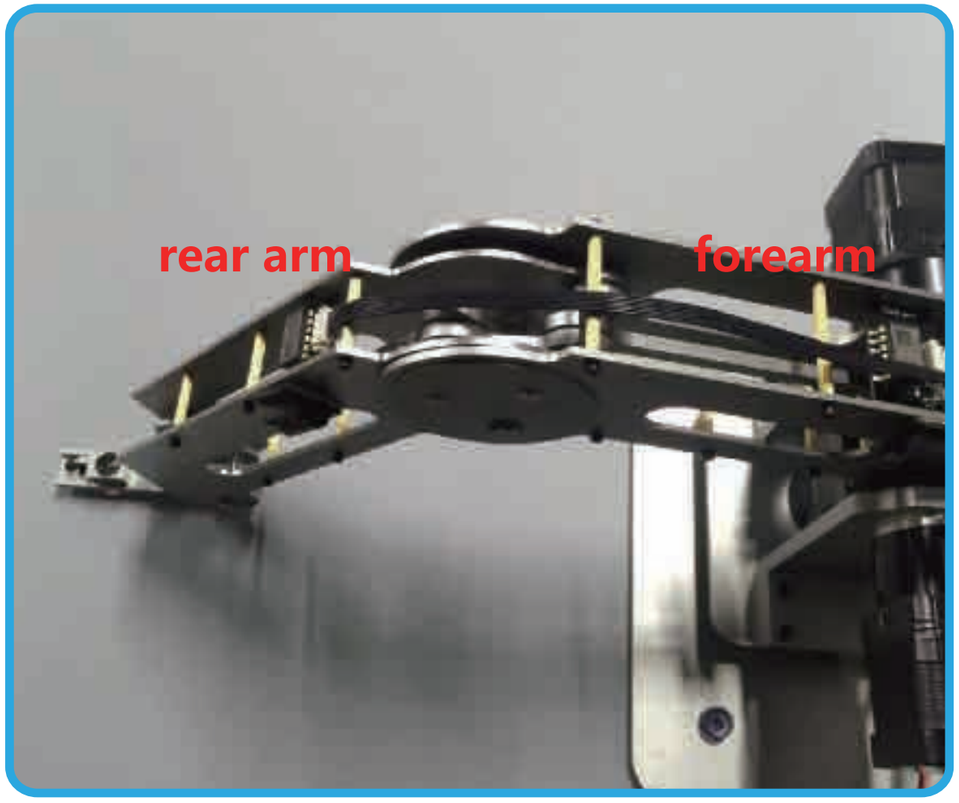


Tip: The flat side of the connecters is parallel to the end of the stpper motor

Angle Sensor



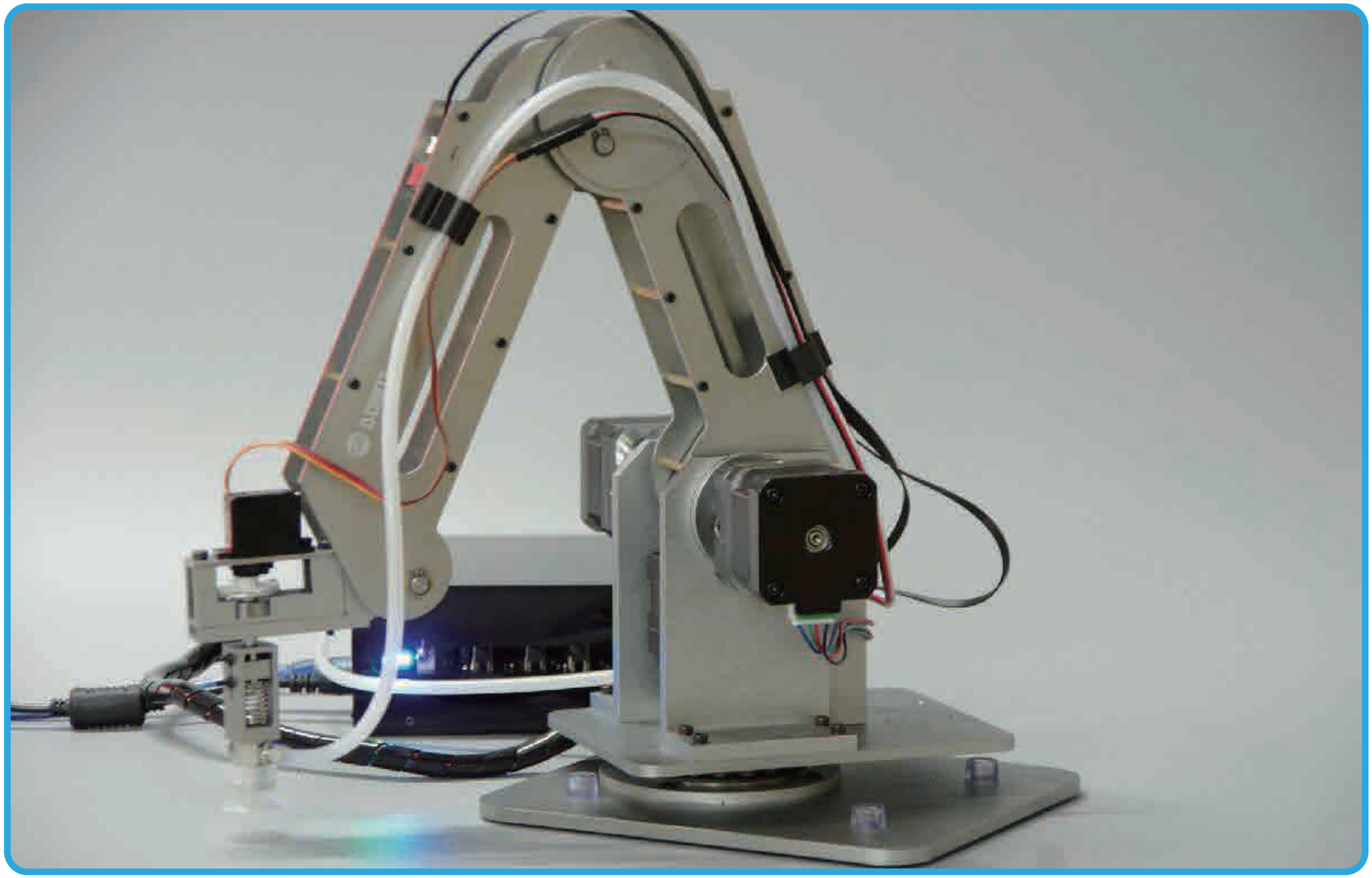




- Loosen the two bolts
- Insert the convex portion at one side of the sensor module into the two strip holes
- Push the other side into the corresponding position
- Tighten the two bolts.

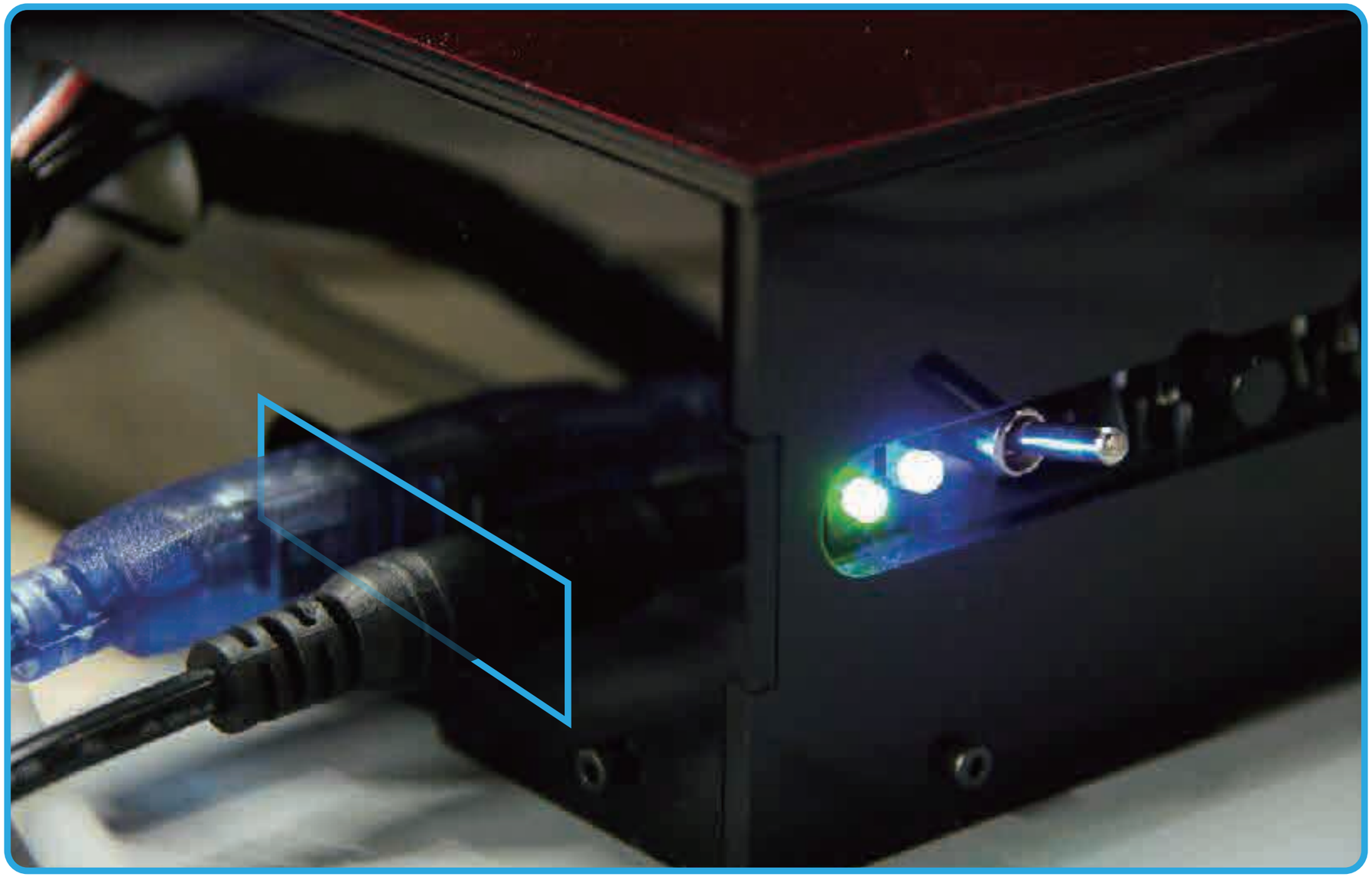
Servo & Air Tube

Fix the cable and air tube(selectable)



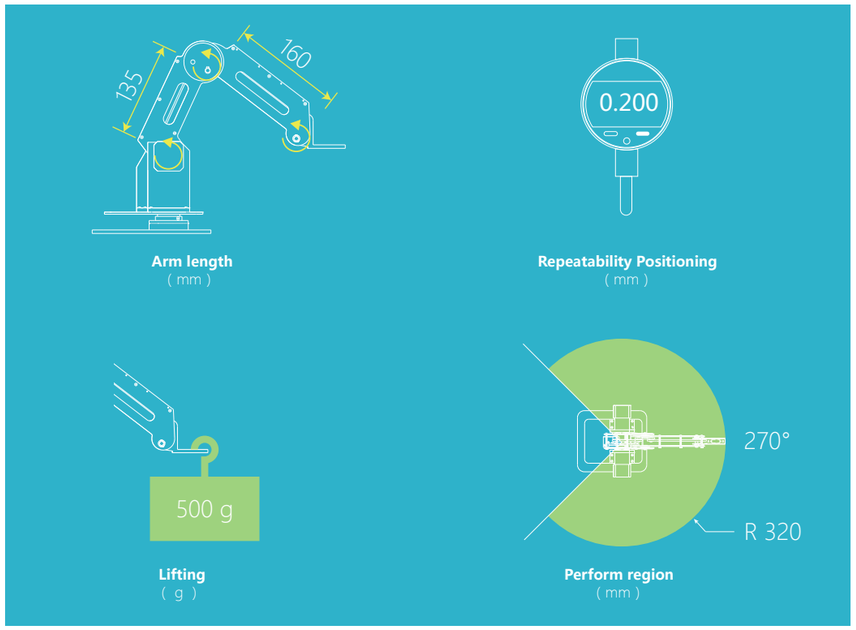
If you like, you can attach the wire holder to the body of the arm and fix the cable and air tube.

Connect USB and Power



Now your Dobot is ready!
Download softwares and instructions form our website, enjoy!

Specification



Number of Axes	4
Weight	3kg
Payload	500g
Position repeatability	0.2mm
Material	Aluminium Alloy 6061
Controller	Arduino Mege2560
Commuication	UART/Bluetooth
Power Supply	12V 5A DC