



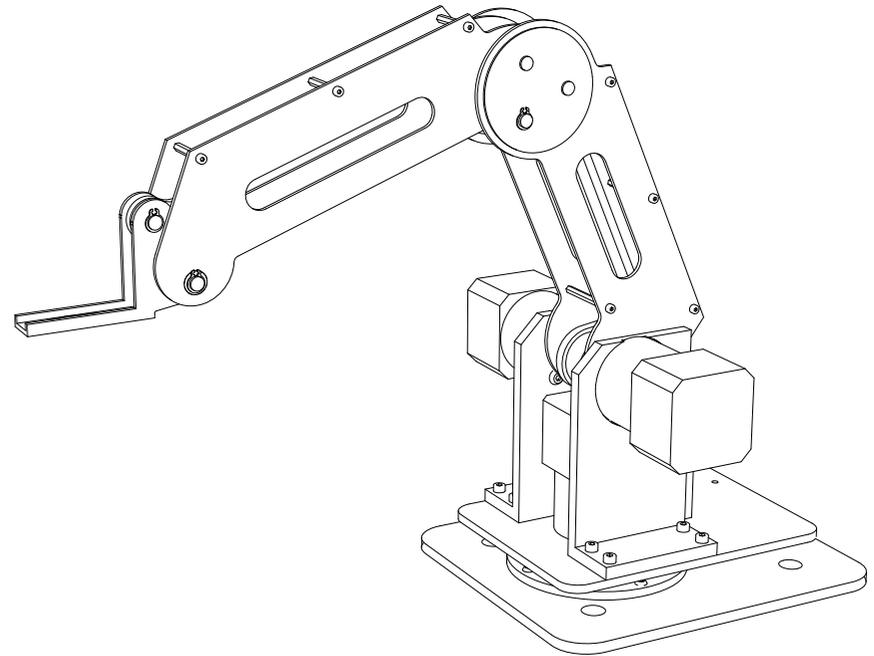
Dobot User Manual

V 1.1

Let's Dobot

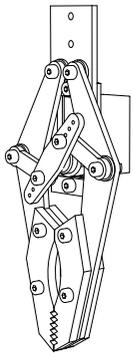
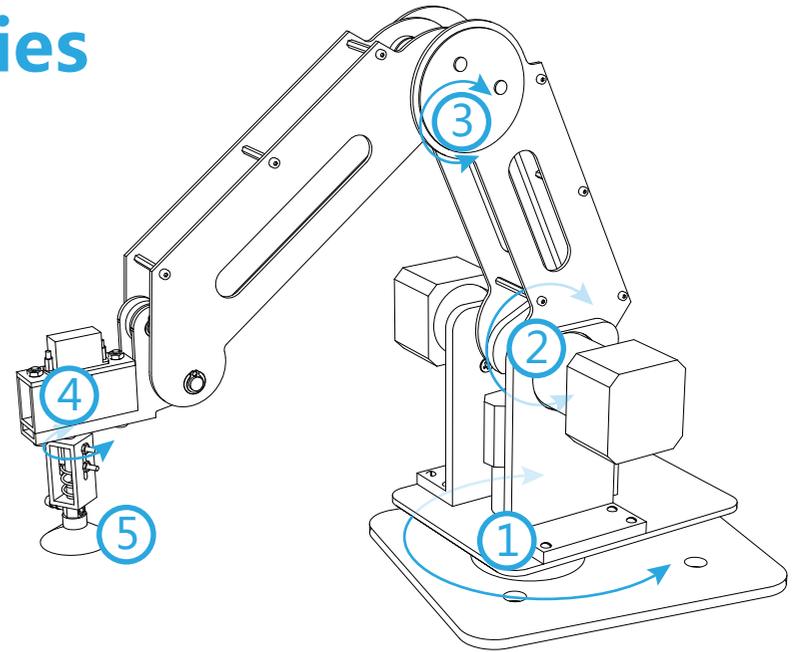
Dobot's dream is to bring industrial robot arm into our daily life, let everyone enjoy the pleasure of playing it and empower developers to do delicate work and creative applications.

With innovative and professional design and more than 10,000 hours of work, we have managed to reach high-standard industrial precision and stability, while keeping Dobot at an affordable rate for consumers. Dobot supports more than 7 control methods, making it easy to use for everyone. We believe, the Dobot in front of you is not only a cool robot to have on your desktop, but also a new world to have fun in digging out the unlimited possibilities.

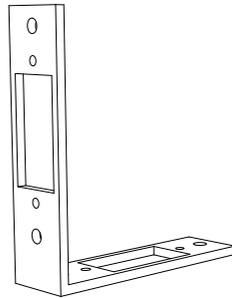


Robot Arm and Accessories

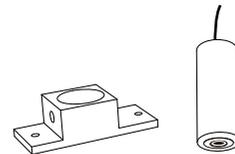
1. Joint 1
2. Joint 2
3. Joint 3
4. Joint 4
5. Suction Cap



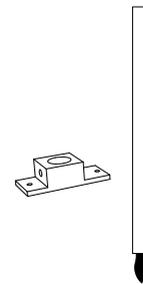
Gripper



90° Adapter Bracket

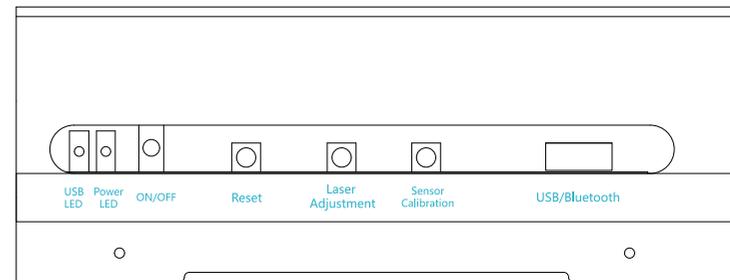
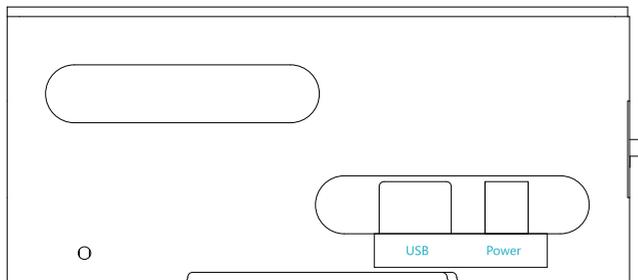
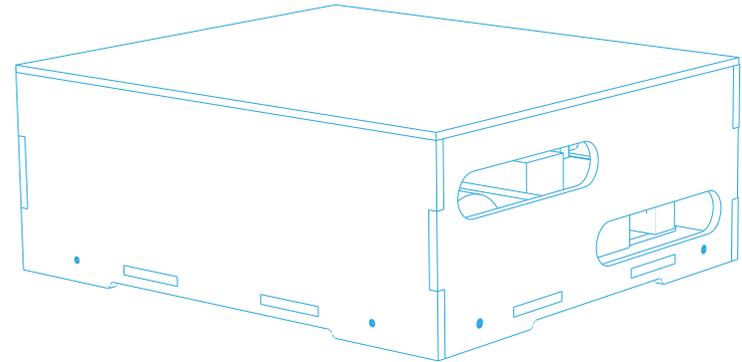


Laser & laser Holder

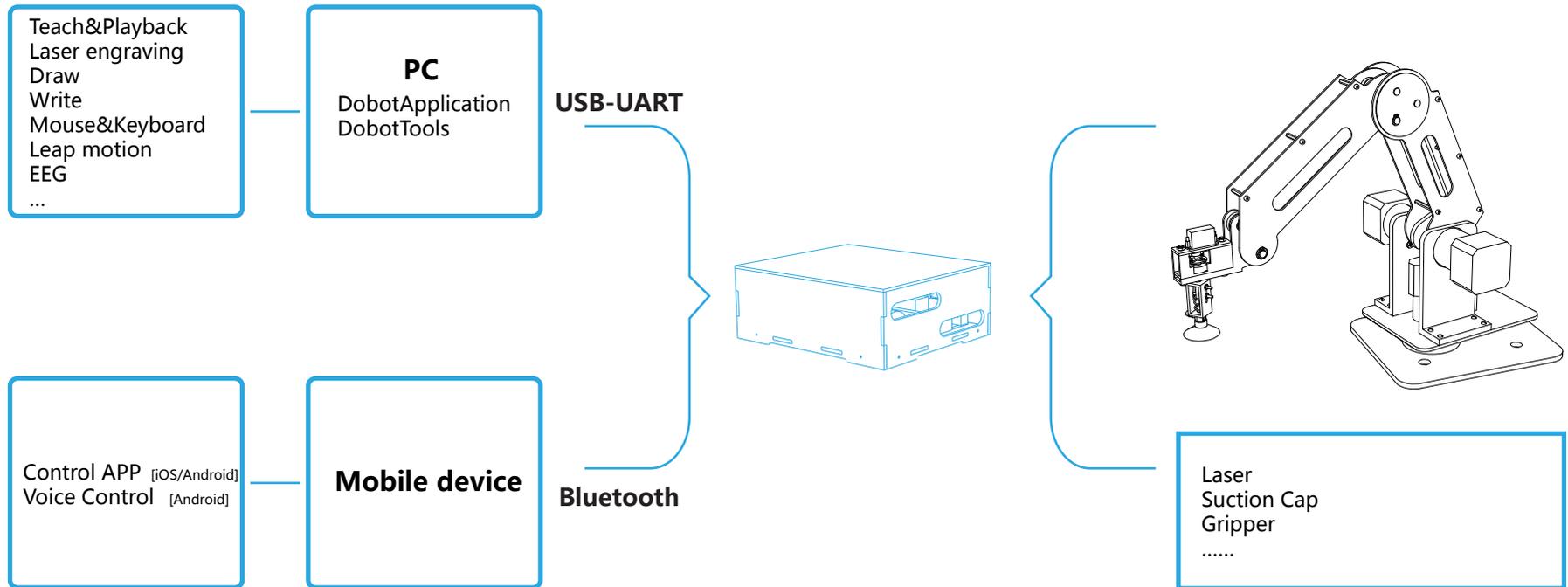


Pen & Pen Holder

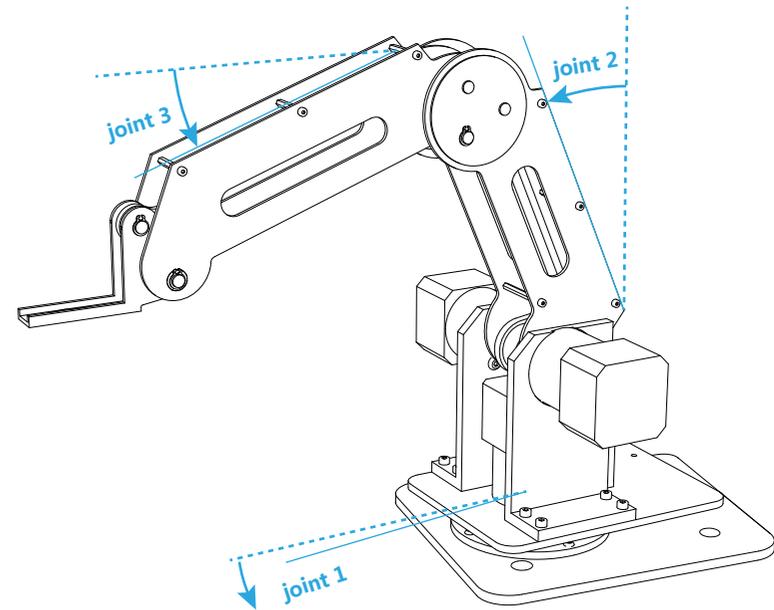
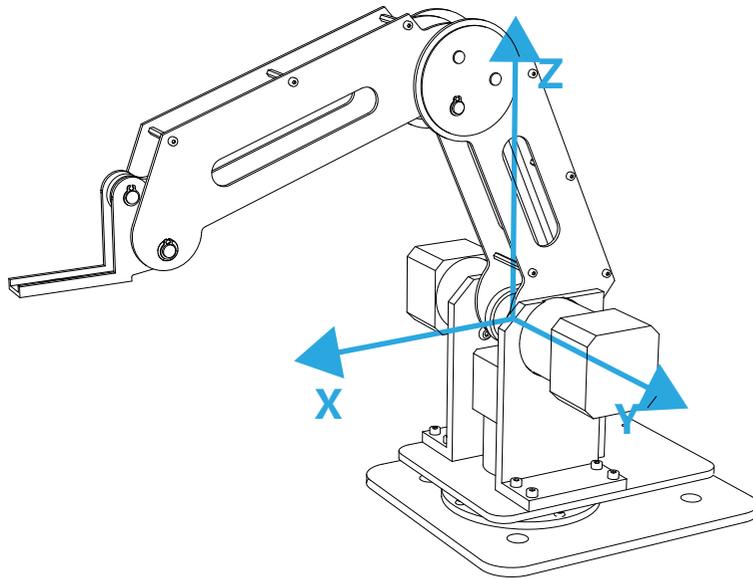
Robot Controller



Robot Framework



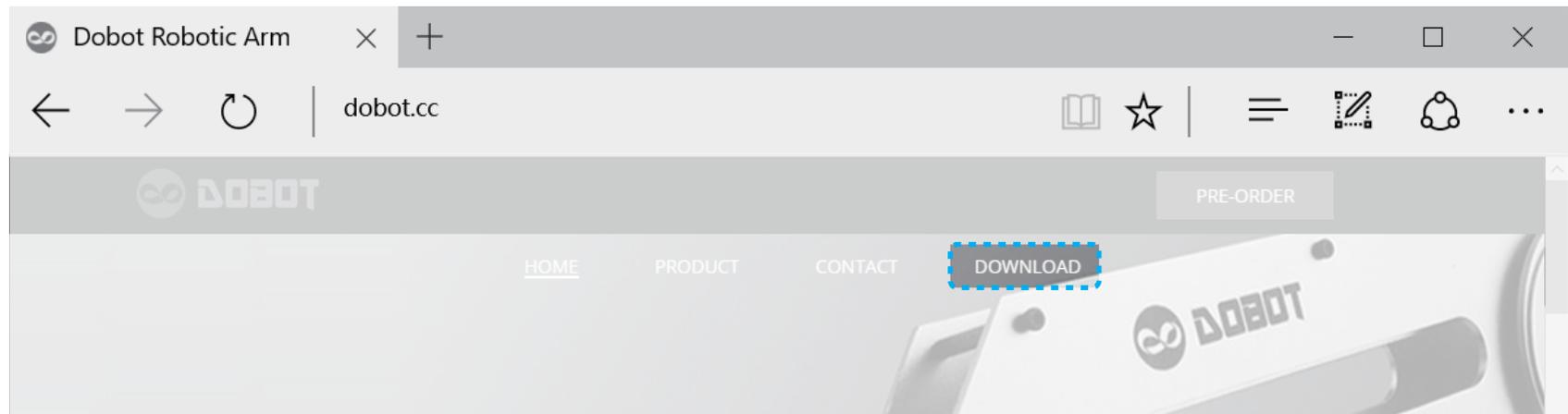
Reference Frame



Quick Start Guide

STEP 1 : Download Software and Install Arduino Driver

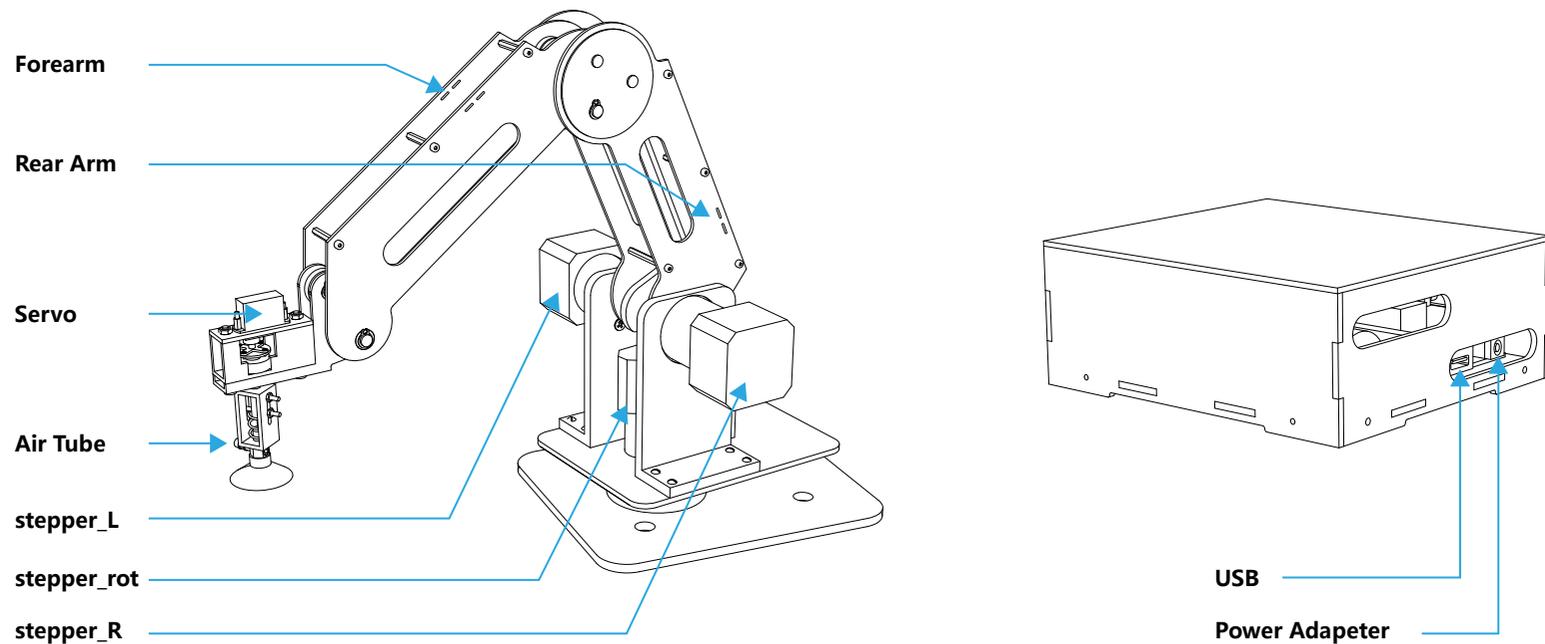
- Download software from our website: dobot.cc/download.
- Install Arduino drivers. You can download Arduino from www.arduino.cc or directly from our website.



STEP 2 : Setup your Dobot

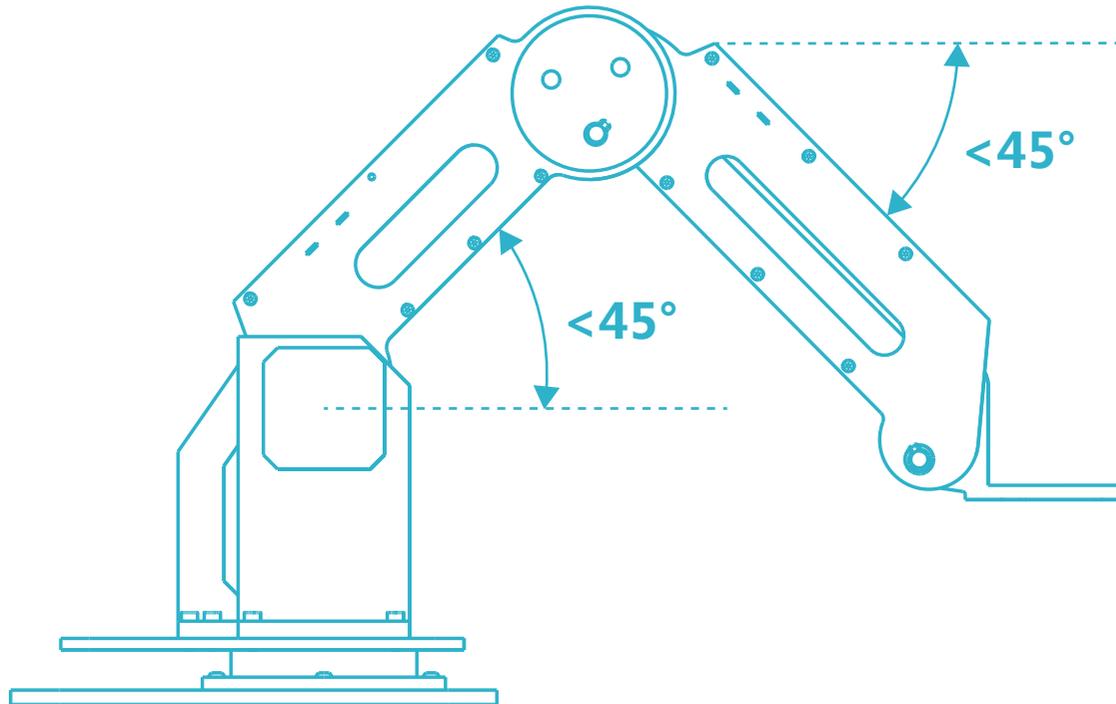
- Connect the stepper motors.
- Connect the angle sensors: loosen the neighbor screws before inserting the sensor modular.
- Connect the servo and air tube.

⚠ Note: servo cable connection order: orange to white; red to red; brown to black.



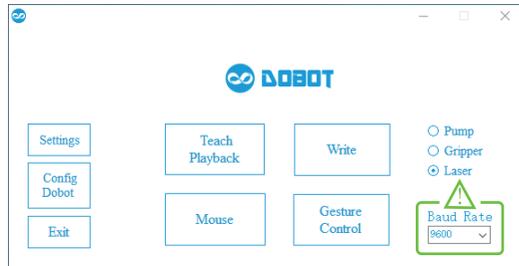
STEP 3 : Start Dobot

- Put Dobot in the following recommended position
- Power up
- Reset



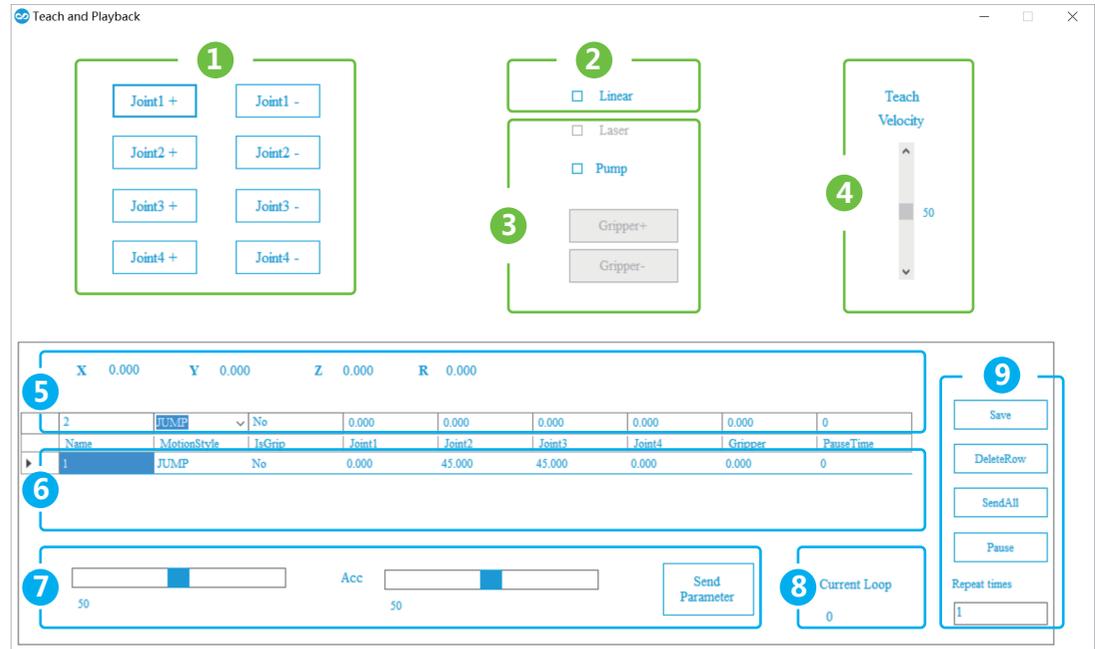
- ⚠ Info about the recommended position:
 - (1) When Dobot is powered up at a limited position, it will be locked up and not capable of moving.
 - (2) The angle sensors have more accurate readings when it is positioned in less than 45° regarding the horizontal plane, which gives a good start for Dobot.
- ⚠ Info about Reset: Dobot requires a reset to get the current angle sensor reading after powering up.

STEP 4 : Run the software (DobotApplication/ DobotTools) and Play!



 Important Note: Choose the right Baud Rate.

Version	Baud Rate
v1.0 (KS)	256000
v1.1 or later	9600

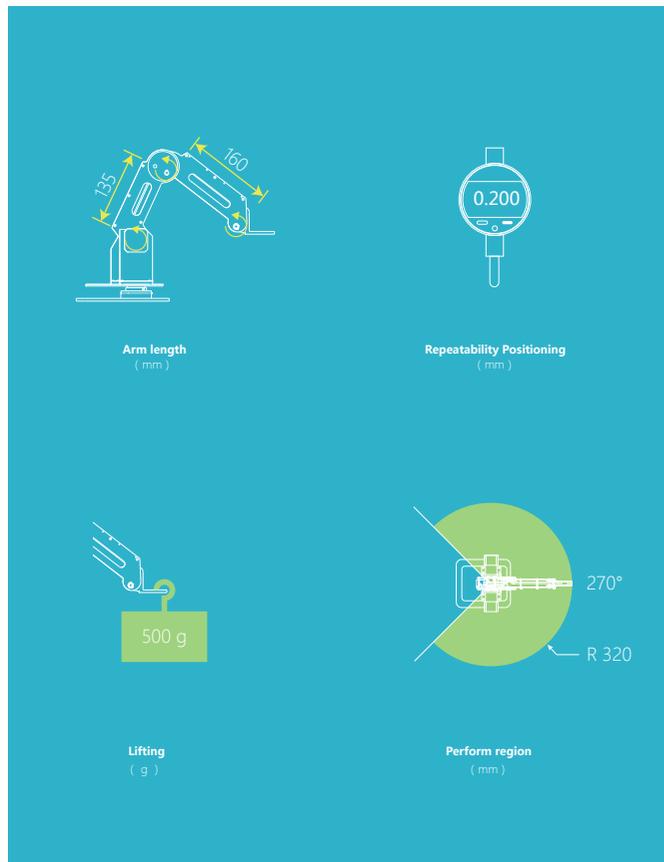


1. Jog Button: hold the button to move robot.
2. Axis/ Linear Switch: switch between Joint Jog and Linear Jog.
3. Pump: turn on/off the pump.
4. Teach Velocity: change the jog velocity for teaching.
5. Current State Description: information about current coordinate, moving mode, joint angle and etc..
6. Saved Point List: table of saved points, which can be edited.
7. Vel & Acc: adjust the moving velocity and acceleration during playback.
8. Current Loop: index of current playback loop.
9. Save Point/ Delete the Selected Row/ Start Playback/ Pause The Playback/ Set Loop Number

Support

1. More information available on our official website dobot.cc.
2. Software and detailed instructions can be found on dobot.cc/download.
3. Share your joy and creative ideas on forum.dobot.cc.
4. If you have further questions, please send email to support@dobot.cc.

Specification



Number of Axis	4
Weight	3kg
Dimension base	170mm * 150mm
Payload	500g
Position repeatability	0.2mm
Material	Aluminium Alloy 6061
Controller	Arduino Mega 2560
Commuication	UART/Bluetooth
Power Supply	12V/5A DC
Joint Working Range	
Joint 1 base	+135° to -135°
Joint 2 rear arm	+85° to -5°
Joint 3 forearm	+95° to -10°
Joint 4 rotation servo	+90° to -90°



Shenzhen Yuejiang Technology Co., Ltd

18F, BUILDING C2, NANSHAN I PARK, NO.1001, XUEYUAN AVENUE, SHENZHEN, GUANGDONG PROVINCE, CHINA. 518055

TEL: +86-0755-33077021 (Mon to Sat, 09:00 AM to 18:00 PM GMT+8)

E-MAIL: sales@dobot.cc info@dobot.cc WEB: dobot.cc