Manuals+ — User Manuals Simplified.

Rotrics SZRD19 3D printing module Instruction Manual

ROTRICS

QUICK START GUIDE V1.0

To use the 3D printing module, please read the corresponding guide.

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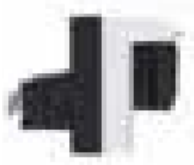
In The Box

	
Robot Arm x 1	n Holder Module x 1
Laser Engraving Module x 1	Touchscreen x 1

Tools & Accessories

Hex Key Wrench x 2	Screw for Plate x 4	s

Cables & Power Adapter

USB-C Cable x 1	Dual Type-C Cable x 1

Pneumatic Kit

Pneumatic Module x1	Air Pump Box x 1	ual Type-C Cable x 1

Suction Cup x 3	Soft Gripper Finger x 3	Universal Pneumatic Connector x 1

Suction Cup Connector x 1	Hex Nut for Suction Cup Connector x2

Soft Gripper Connector x 3	Screw for Gripper Connector x 3

Before You Start

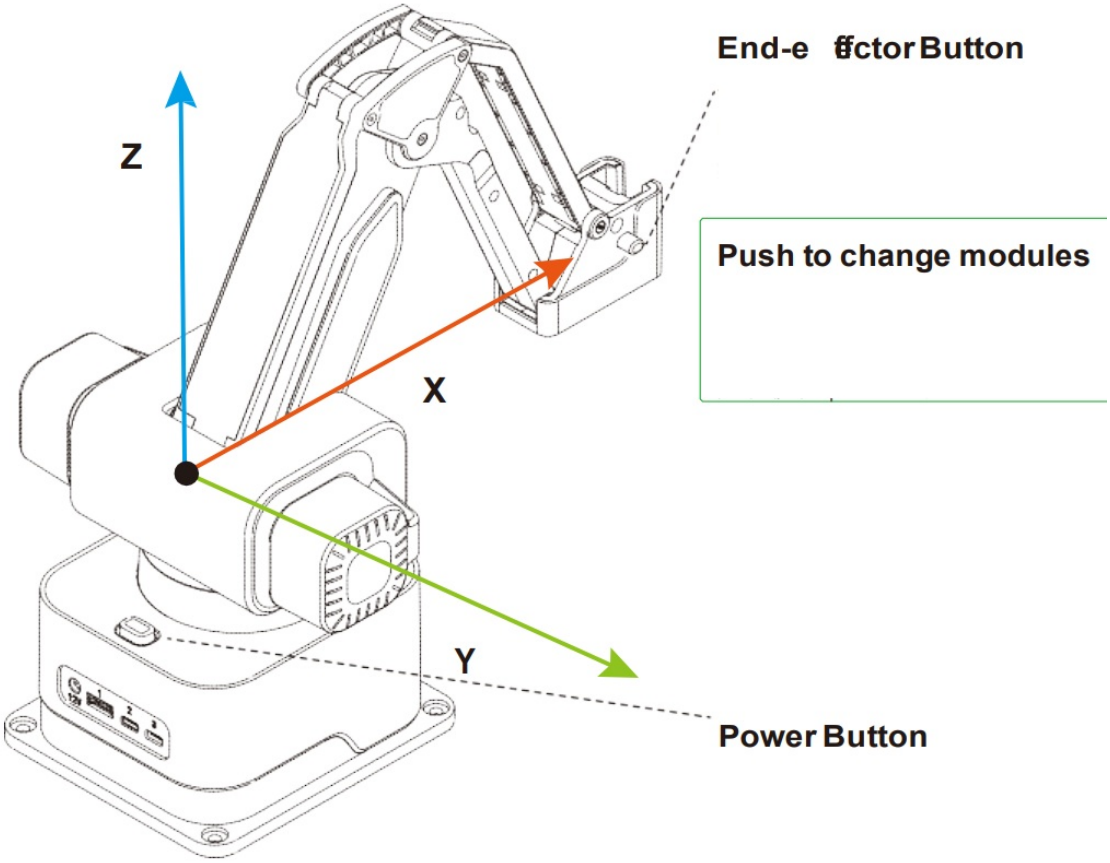
Legend

Warning

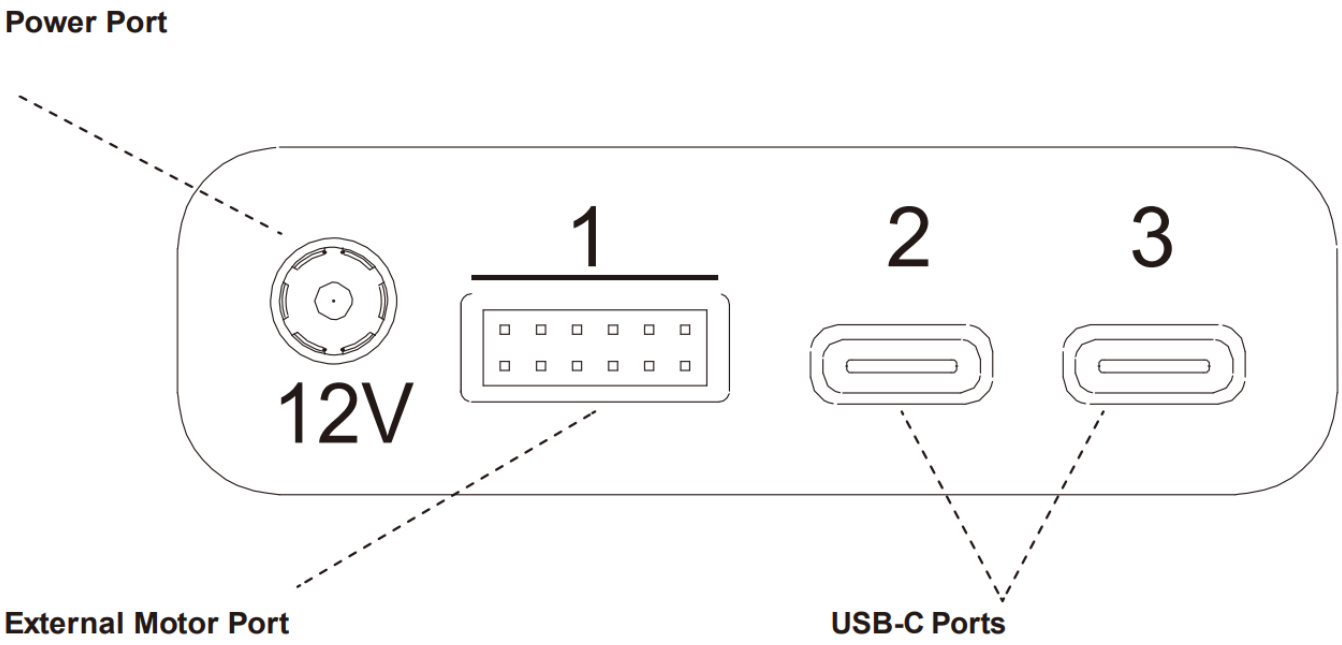
Tips

Download Rotrics Studio before using our product: www.rotrics.com

Robot Arm Coordinate System



Ports

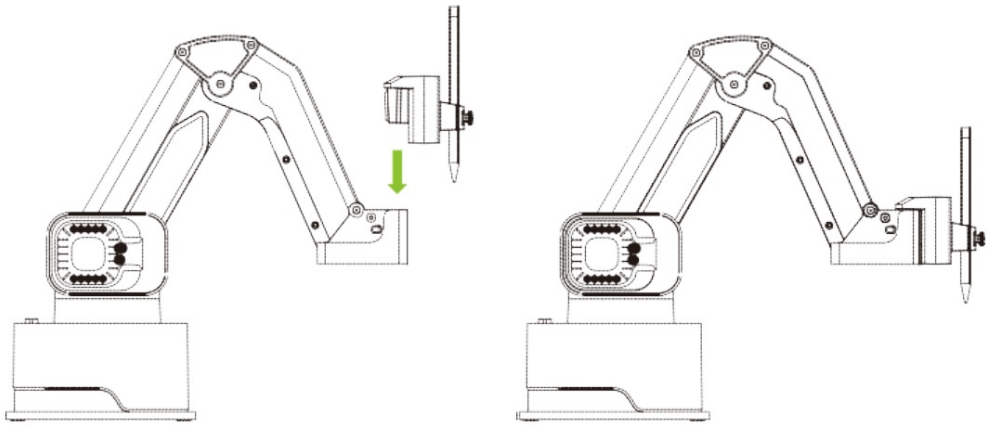


Drawing and Writing

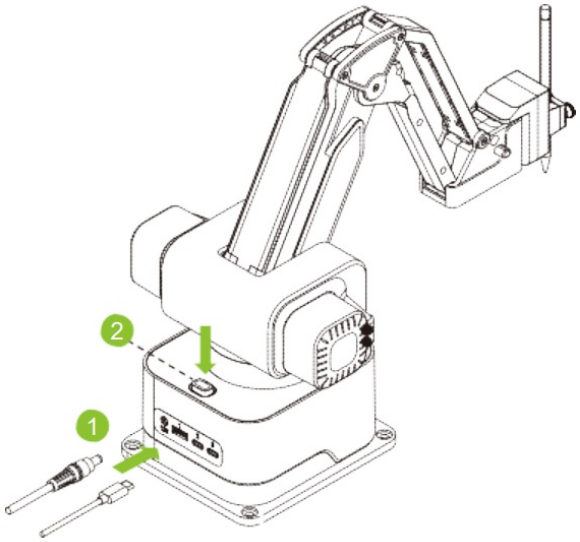
1. Setup Pen Holder Module

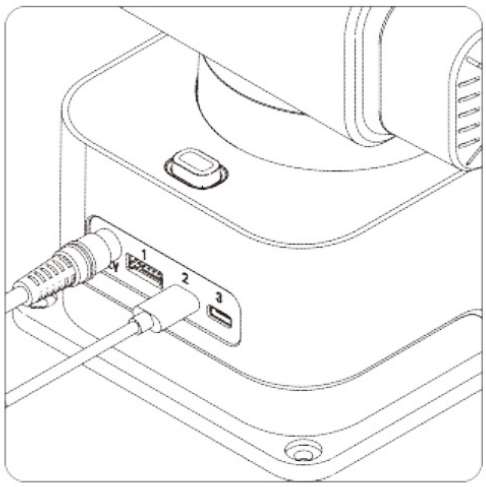
Pen Holder Module x 1

Pen x 1

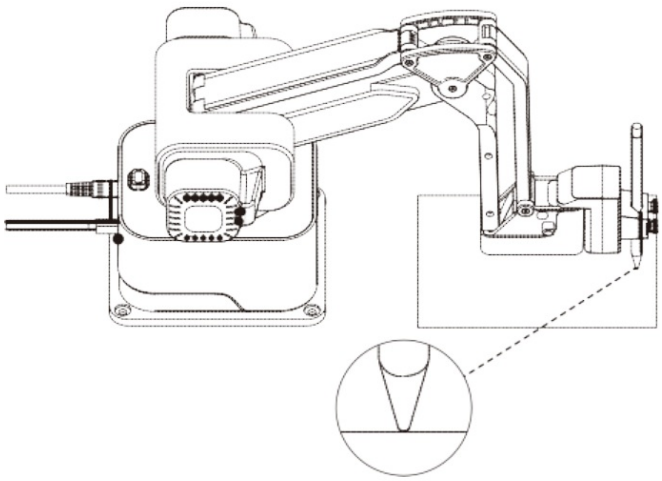


2. Connect to power socket to power on and connect to a computer

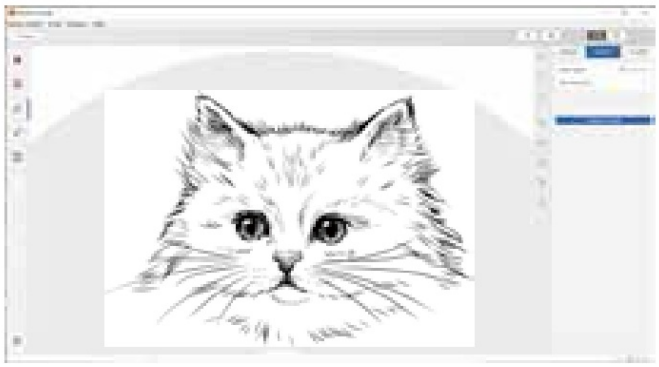




3. Use Pen Holder Module

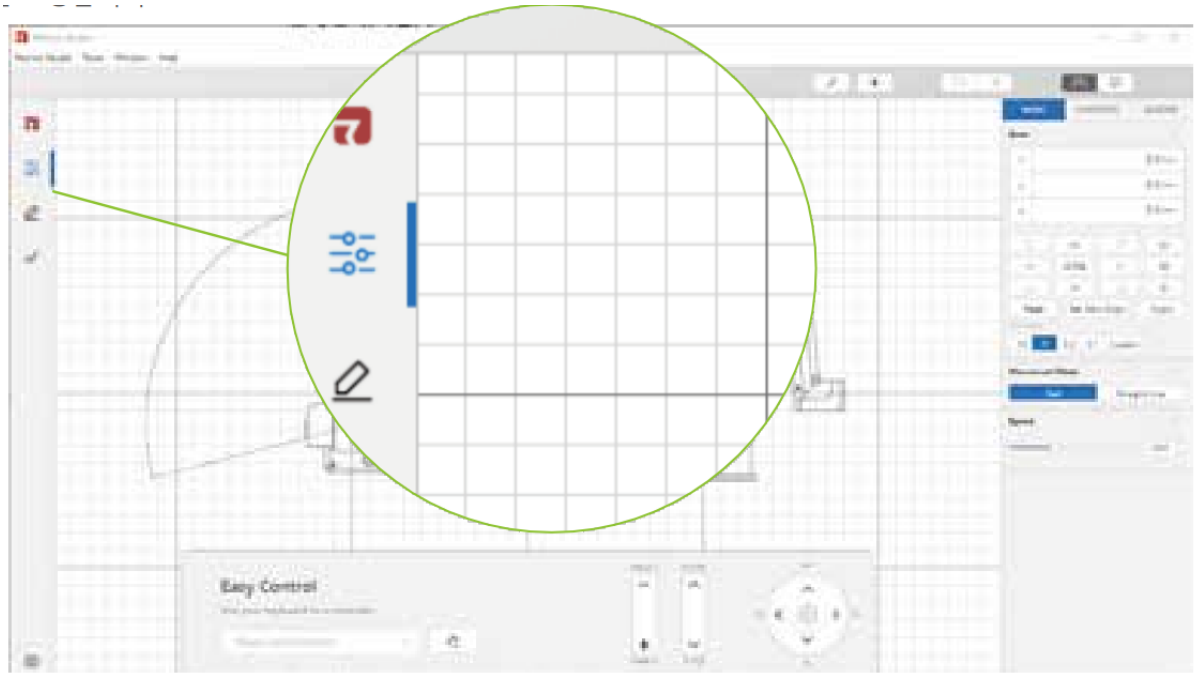


Adjust pen height

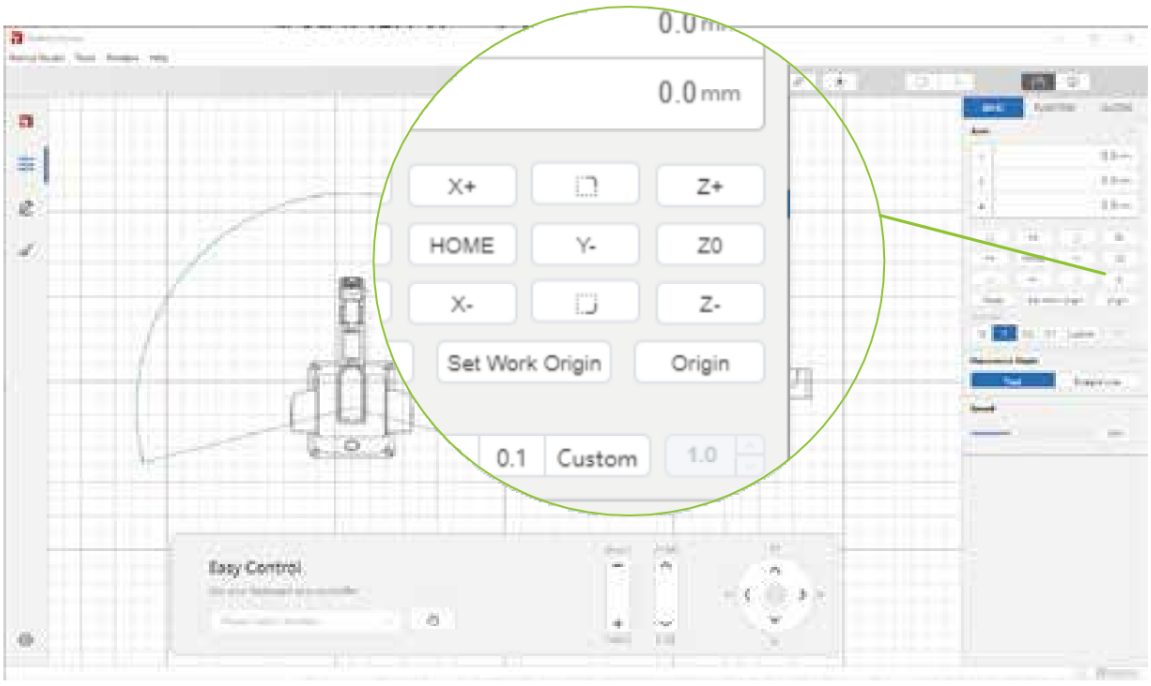


Start drawing

Adjust pen height



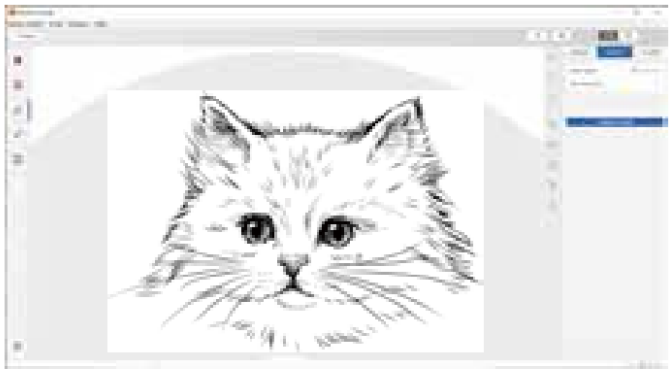
Open Rotrics Studio and click Basic



Switch to the BASIC panel and click Z- until it can draw on the paper. Remember the Z Axis height.

Start Drawing

Please refer to the online manual for more details: manual.rotrics.com



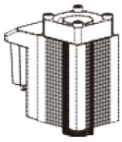
Generate G-code

Choose a way to draw

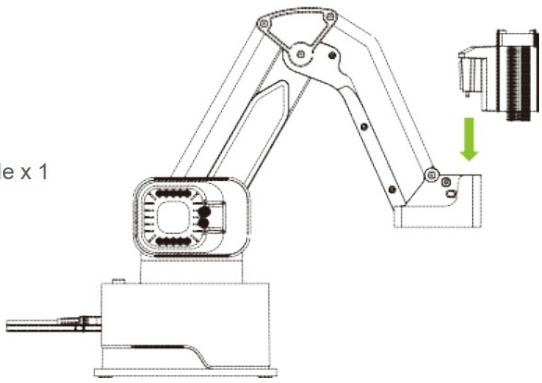
Laser Engraving

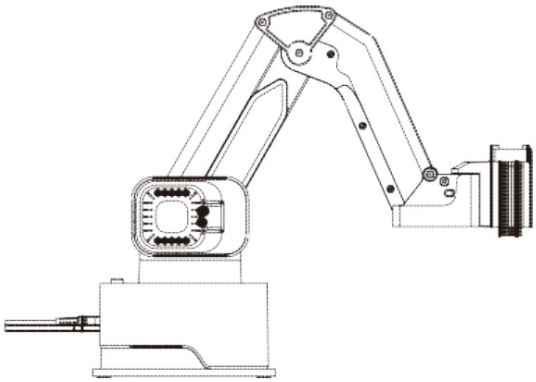
1. Transform into a Laser Engraver
2. Prepare for Laser Engraving
3. Start Engraving

1. Transform into a Laser Engraver



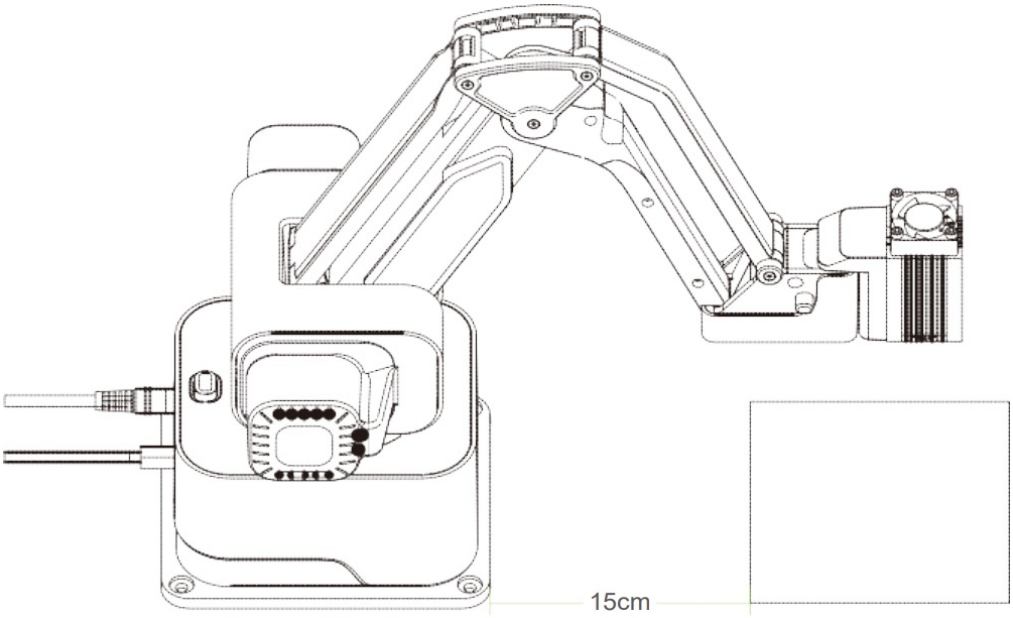
Laser Engraving Module x 1



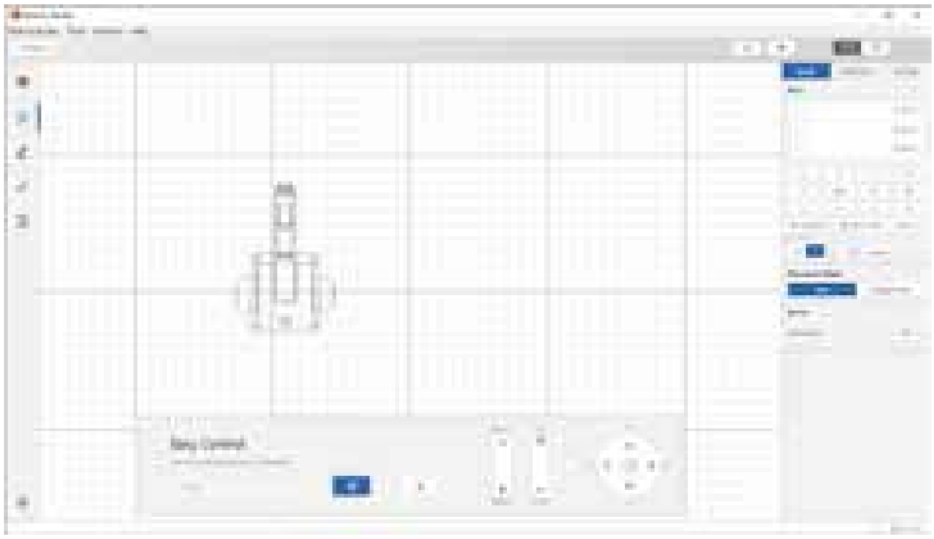


Power off the robot arm and switch to laser engraving module

2. Prepare for Laser Engraving



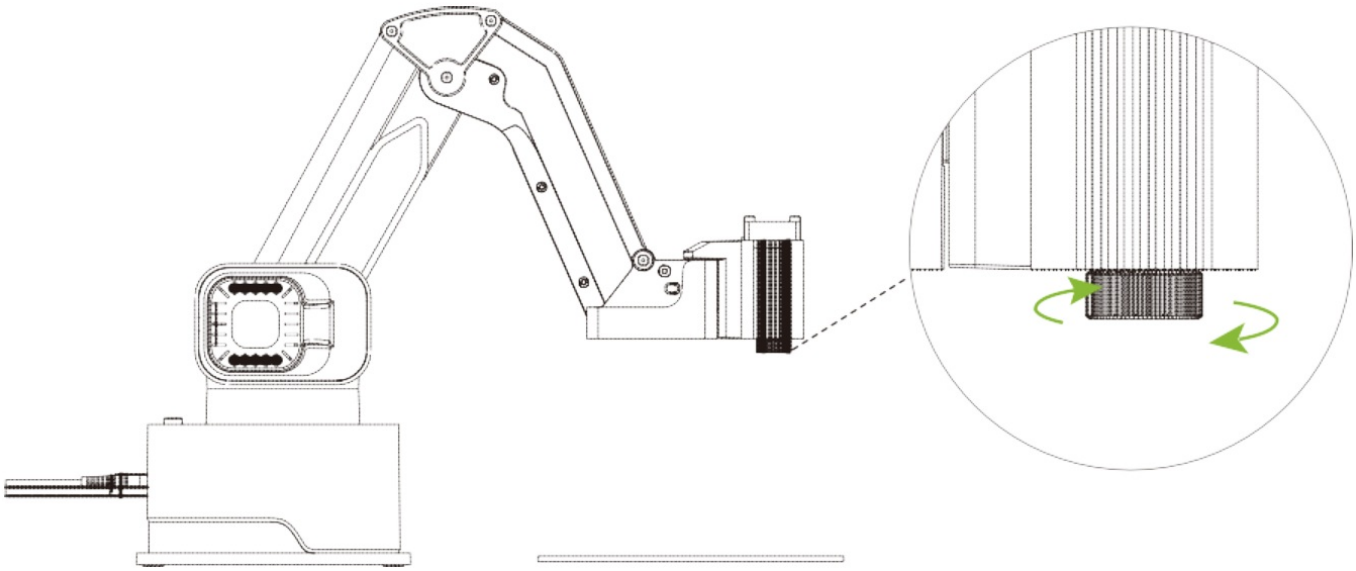
1. Place the material
2. Focus Laser Engraver



Open Rotrics Studio and set the focal height at the basic panel

Wear the Safety Goggles before you set up the laser engraver and throughout the laser engraving process.

Spin the circle until you get the smallest laser spot



Please be careful and DO NOT touch the laser beam when you focus the laser

3 Start Engraving

Please refer to our online manual for more details: manual.rotrics.com

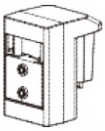
Generate G-code

Choose a way to engrave

Picking and Placing

1. Transform into a Air-Picker
   Attach the universal pneumatic connector to the pneumatic module
   Attach Suction Cup / Soft Grippers
   Connect Air Pump Box
   Plug in Pneumatic Module
2. Start Picking and Placing

1. Attach the universal pneumatic connector to the pneumatic module.

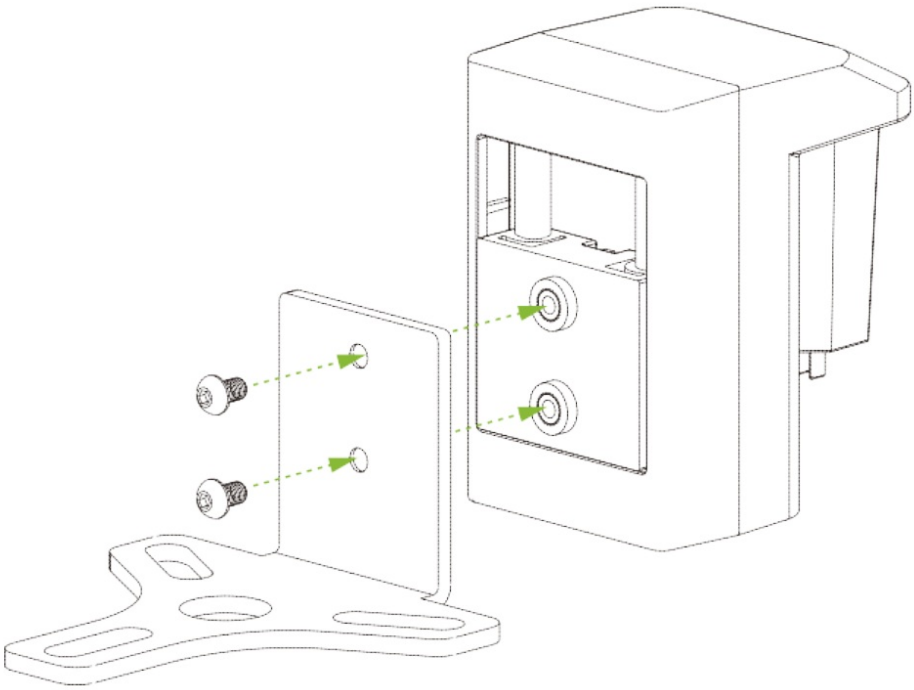


Pneumatic Module x1

Universal Pneumatic Connector x 1

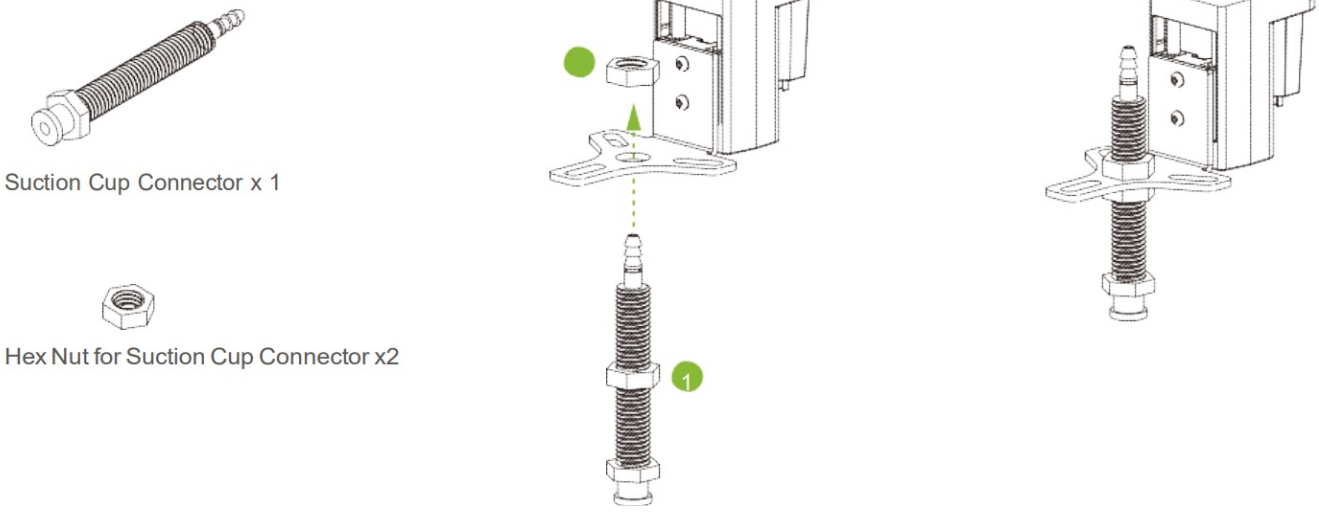
M2.5 x 2

M2.5 Hex Key Wrench x 1

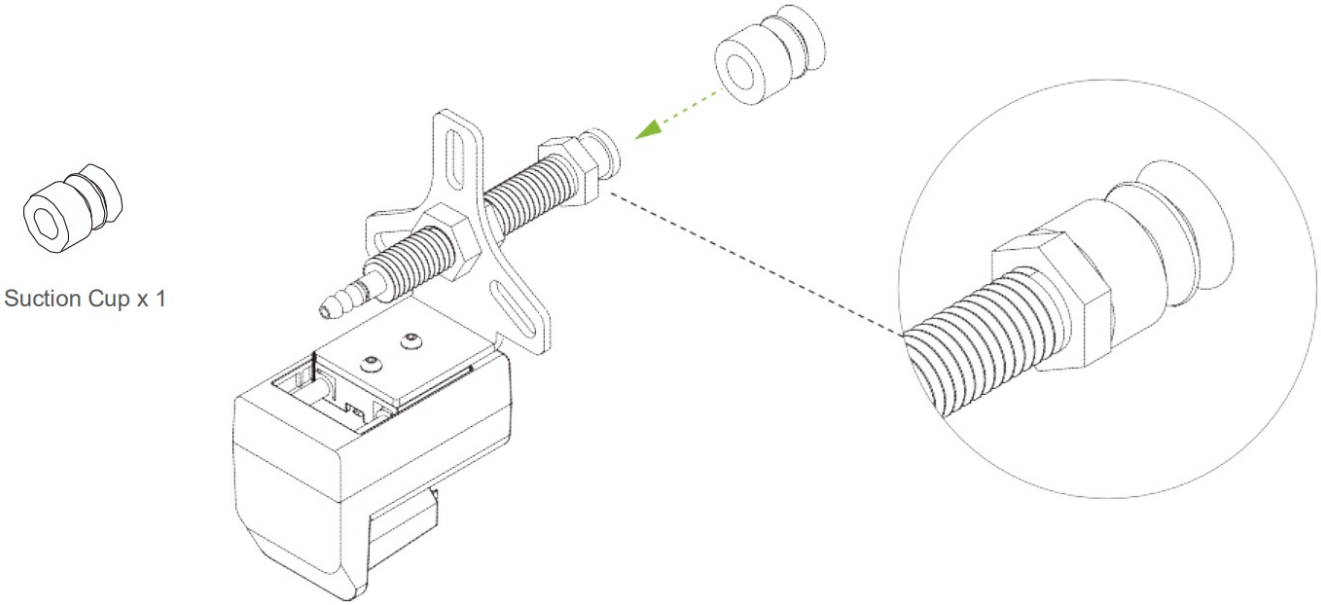


Suction Cup Pneumatic Module

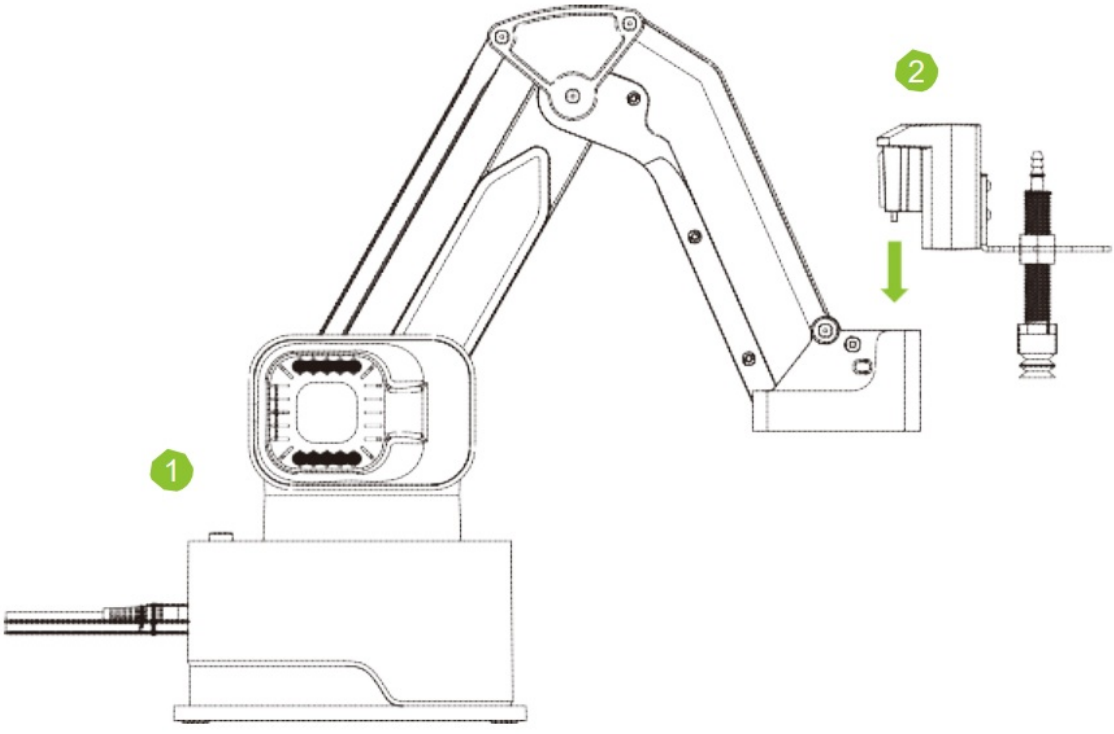
2. **Attach the Suction Cup Connector to the Pneumatic Module**



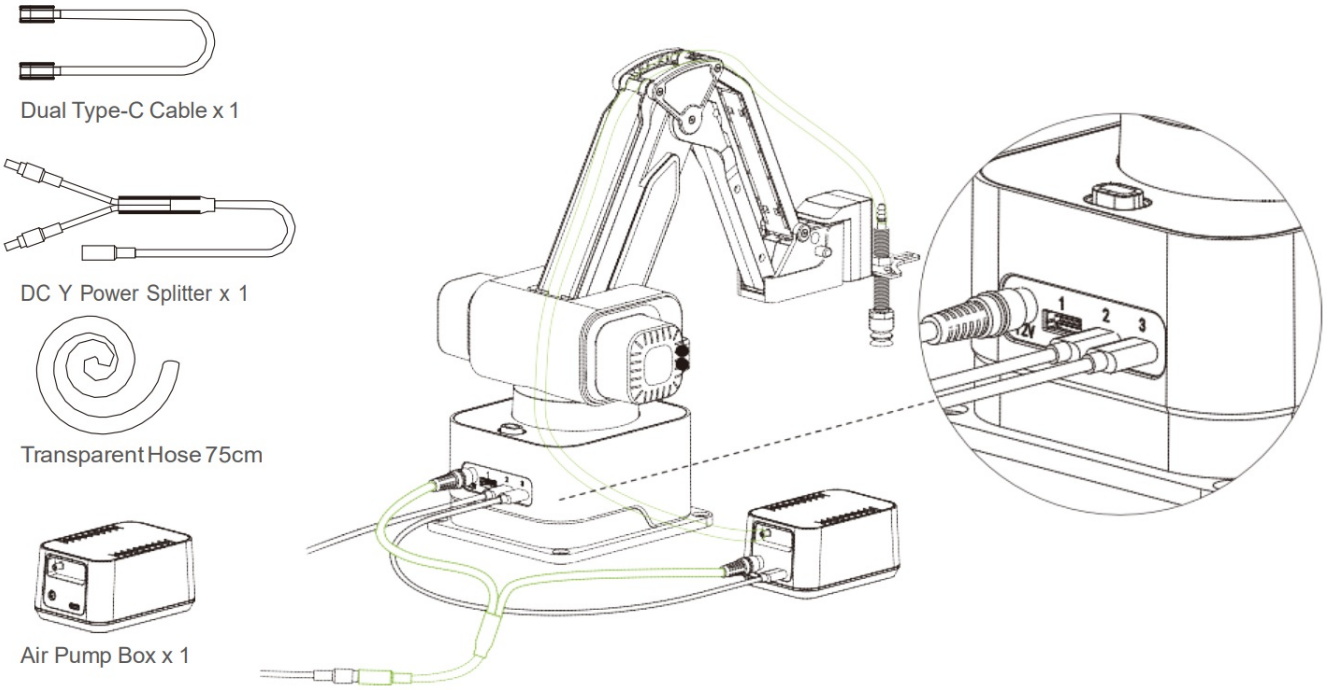
3. **Attach Suction Cup**



4. Power off the machine and switch to the Pneumatic Module

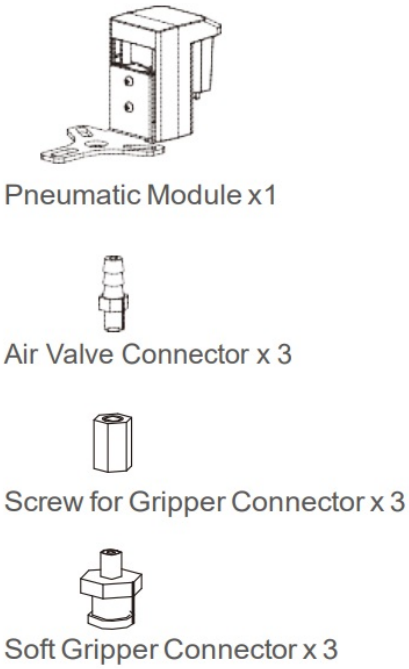


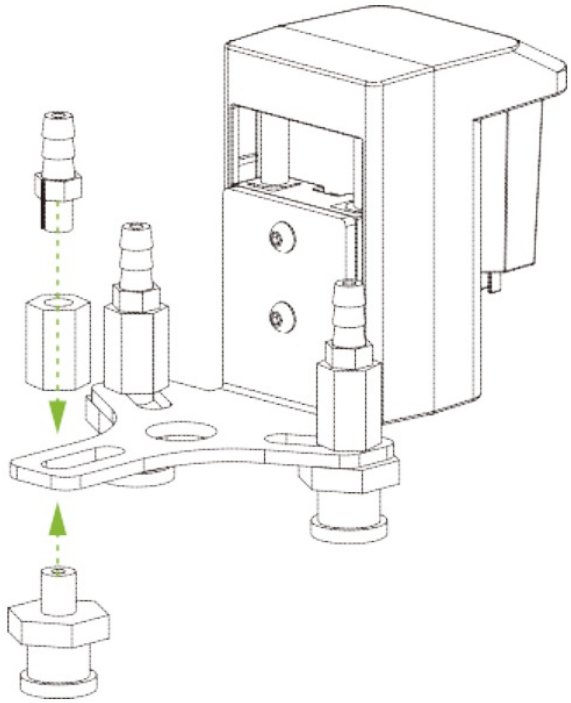
5. **Connect the Air Pump Box to the robot arm as illustrated and power on**



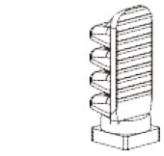
Soft Gripper Pneumatic Module

6. Attach the Gripper Connector to the Pneumatic Module



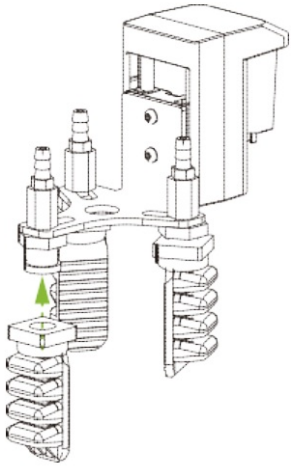


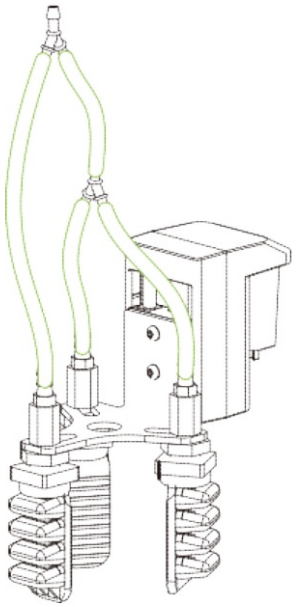
7. Attach Soft Grippers and Transparent Hose as illustrated



Soft Gripper Finger x 3

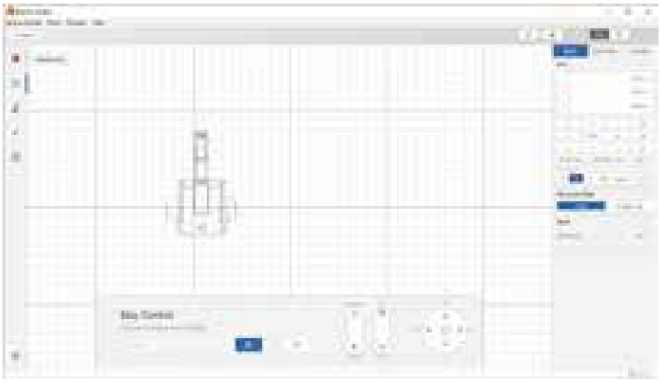
Air Valve Connector x 2





3 Start Picking and Placing

Please refer to our online manual for more details: **manual.rotrics.com**



Open Rotrics Studio and record movements

Generate G-code and start picking

Support

Besides this guide, there are also many tutorials on our website: **www.rotrics.com**

Join the Rotrics community to share your ideas with other users

General: **info@rotrics.com**

http://bit.ly/2MTtaAs

Support: support@rotrics.com

http://bit.ly/32VIZNH

Warning:
Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference,
and (2) this device must accept any interference received, including interference that may cause undesired operation.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the
user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Statement
The antenna of the product, under normal use conditions, is at least 20 cm away from the body of the user.
This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. End-user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Documents / Resources

	Rotrics SZRD19 3D printing module [pdf] Instruction Manual SZRD19 3D printing module, 3D printing module, printing module

References

- Rotrics DexArm User Manual V1.2 - Rotrics Manual
- Rotrics | All-in-One Desktop Robotic Arm

Manuals+.