XTOOL | F1

Quick Start Guide

Contents

* The English version is the original instructions verified by the manufacturer.

List of items

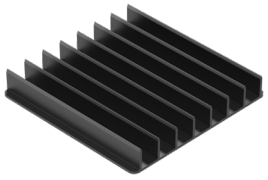
xTool F1

Pipe

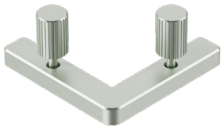
Power adapter

Power cable

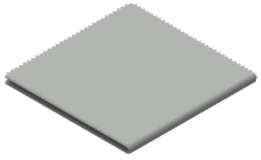
USB cable



Slatted panel



L-shaped positioning piece



Lint-free cloth

Key (spare part)

Grease

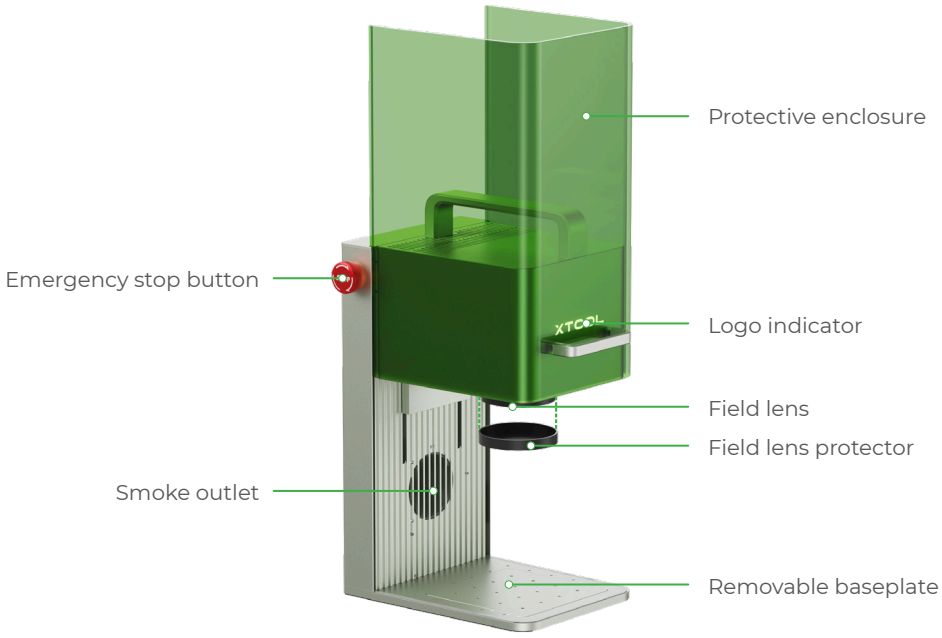
Material pack

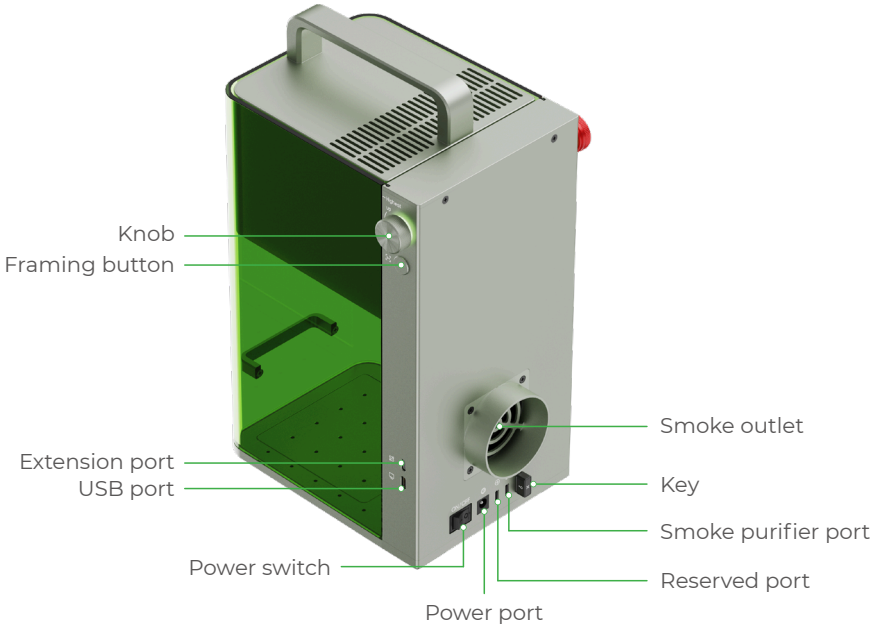
Quick Start Guide

Safety Instructions

Meet your xTool F1

Product structure





Indicator description

Logo indicator	Knob indicator	Machine state
Solid on	Solid white	Not connected to the software
	Solid yellow	Setting network
	Solid blue	Connected to the software
	Solid green	Task completed
	Solid purple	Firmware updating
	Solid red	Exceptions occur
Blinking	Blinking red for 3 times	Invalid operation
Going off	Solid blue	Performing a task
	Blinking white slowly	Enters sleep state if no operation is performed within 10 minutes

Nameplate

XTOOL **F1**

Model: MXF-K001-LG4 FCC ID: 2AH9Q-MXFK001
Input power: 24 V ⎓ 5 A, 120 W IC: 22796-MXFK001
Wavelength: 455 nm ± 5 nm (10 W)/1064 nm ± 5 nm (2 W)
Made in China Manufactured by: Makeblock Co., Ltd.
Company address: Floor 4, Building C3, Nanshan iPark, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong Province, 518000, China

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.

Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

Specifications

Product name	xTool F1
Size	179 mm × 235 mm × 334 mm
Internal working area	115 mm × 115 mm
Maximum processing speed	4,000 mm/s

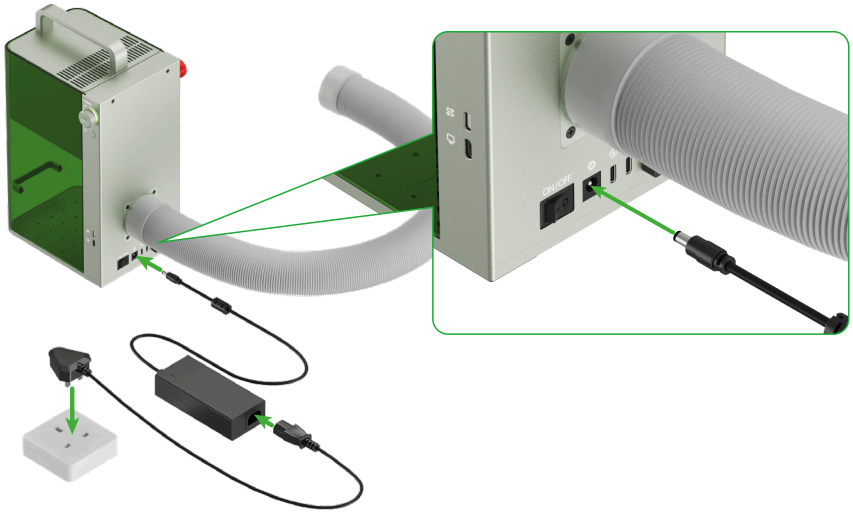
Connection mode	Wi-Fi, USB cable, hotspot
Input power	24 V ⎓ 5 A, 120 W
Laser module	455 nm blue-light laser 1064 nm infrared laser
Laser power	10 W (455 nm) + 2 W (1064 nm)

Get the machine ready

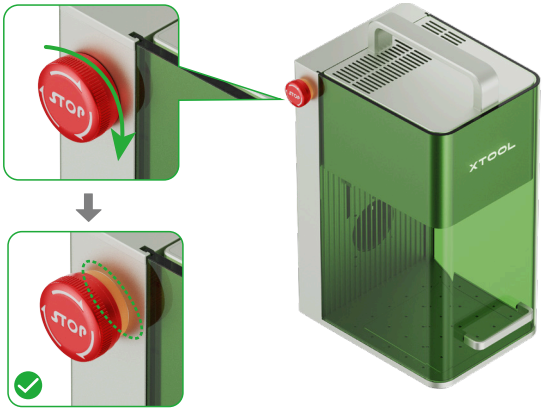
1 Install the pipe.

If you need a desktop smoke purifier, purchase one and connect it to xTool F1 as instructed by the user manual.

2 Connect to a power supply.



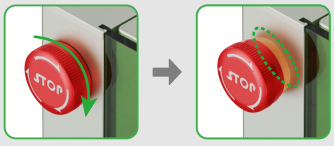
3 Ensure that the emergency stop button is released. If it is pressed, rotate to release it.



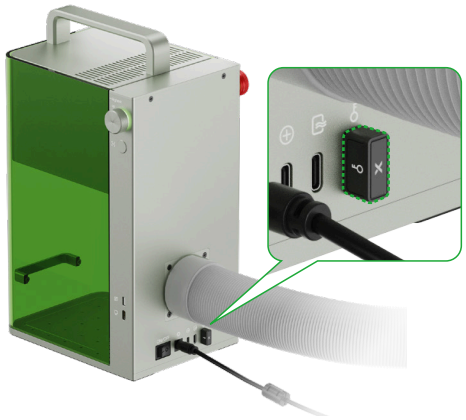
Emergency stop button

If an emergency occurs, you can press the emergency stop button to shut off the machine.

After dealing with the emergency, you can turn the emergency stop button to reset it.



4 Ensure that the key is inserted properly.



Access-control key

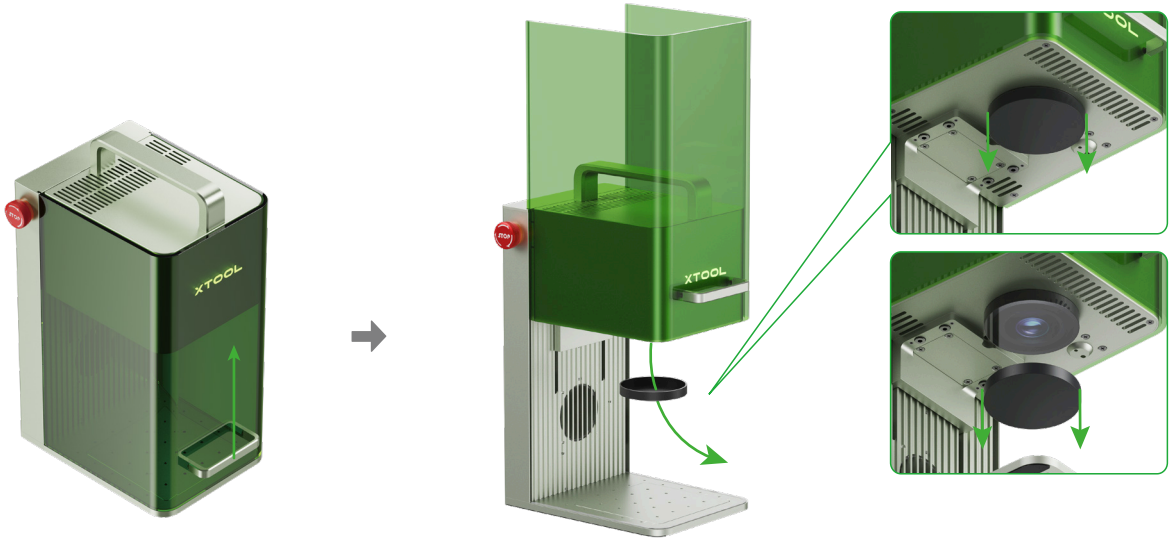
You can remove the key to disable the processing and related functions of the machine.

Interlock connector

You can also use the key as an interlock connector. Go to **support.xtool.com/article/1367** to learn more.

support.xtool.com/article/1367

5 Remove the field lens protector.



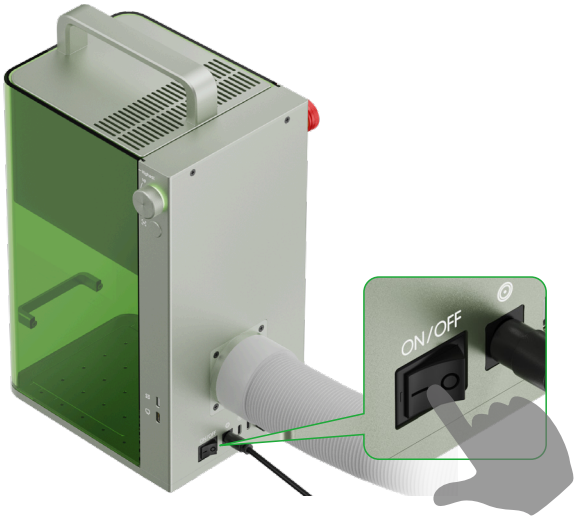
If you won't use the machine for a long period of time, you can install the protector back to prevent the field lens from getting dusty. Ensure that the protector is removed every time before you use the machine.

Use your xTool F1

1 Power on

Turn on the power switch of xTool F1.

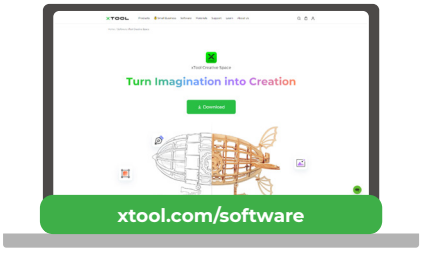
Do not use the emergency stop button as a power switch.
Use the emergency stop button only when an emergency occurs. Using it as a power switch to turn on and off the machine may damage the machine.



2 Operate xTool F1 using XCS

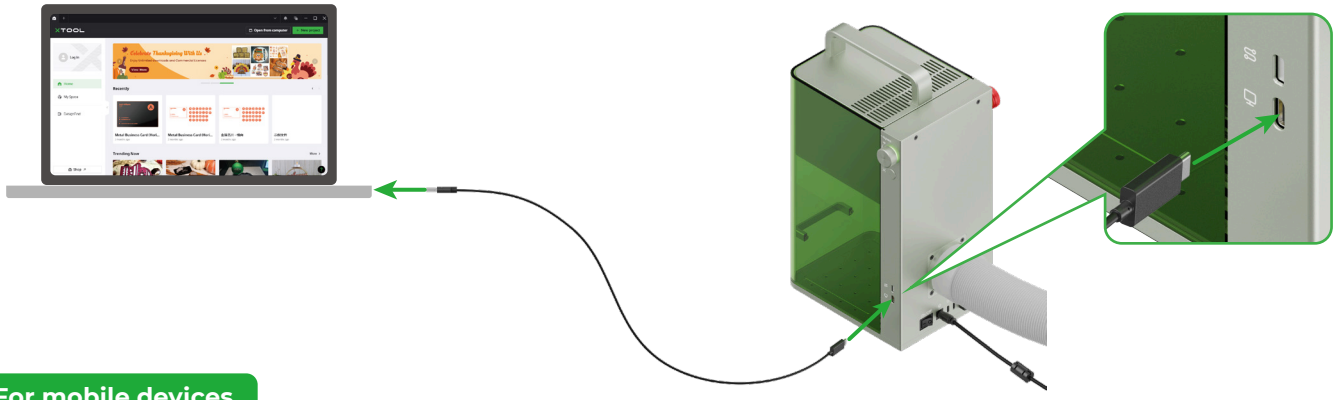
For computers

(1) Visit **xtool.com/software** to download and install xTool Creative Space (XCS).



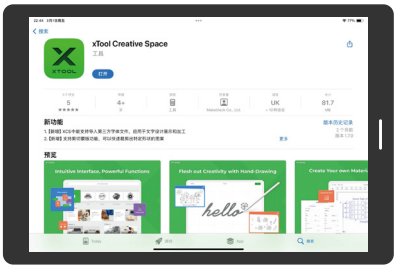
xTool Creative Space

(2) Use the USB cable to connect xTool F1 to the computer, and then connect xTool F1 in the software.



For mobile devices

Scan the QR code or search for **xTool Creative Space** in Google Play or App Store, or visit **xtool.com/software** to download the XCS app and install it.



Follow the online instructions for the App to connect xTool F1 on the App.

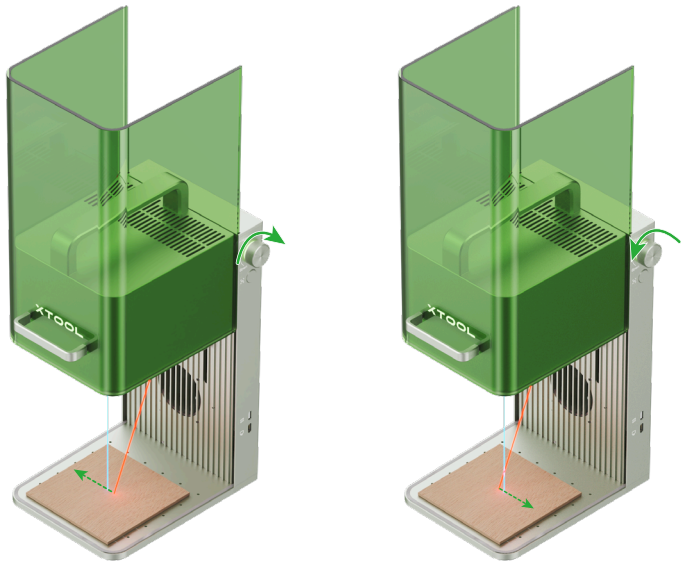
Using the infrared laser for bitmap engraving at a low temperature may lead to unsatisfying engraving results. To address this issue, enable **Infrared ray preheat** for xTool F1 in XCS.

For details about how to use XCS to operate xTool F1 to process materials, scan the QR code or visit **support.xtool.com/product/2**.

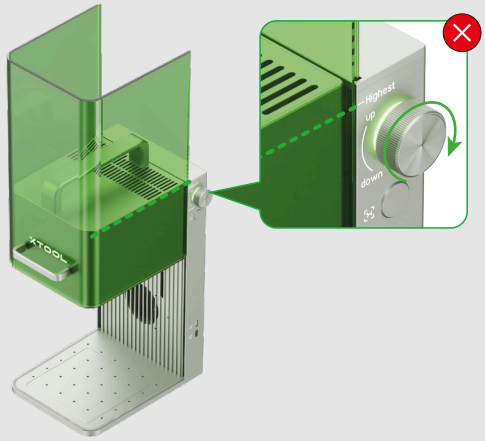
More operations

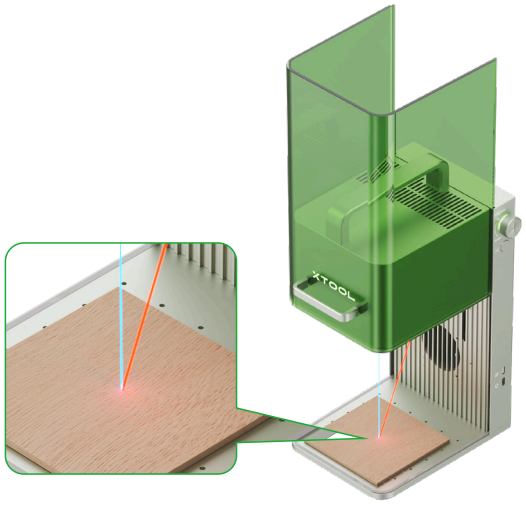
Manual focus setting

Turn the knob to adjust the height of the laser module. When the red and blue light spots overlap, the focus is successfully set.



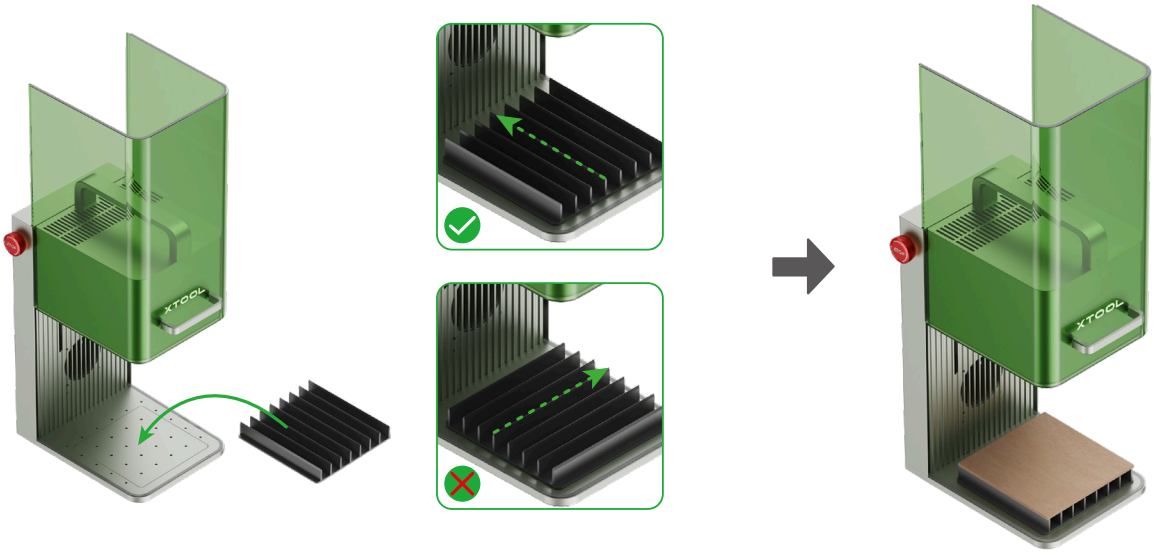
When the bottom of the laser module reaches the highest point, stop turning the knob up.





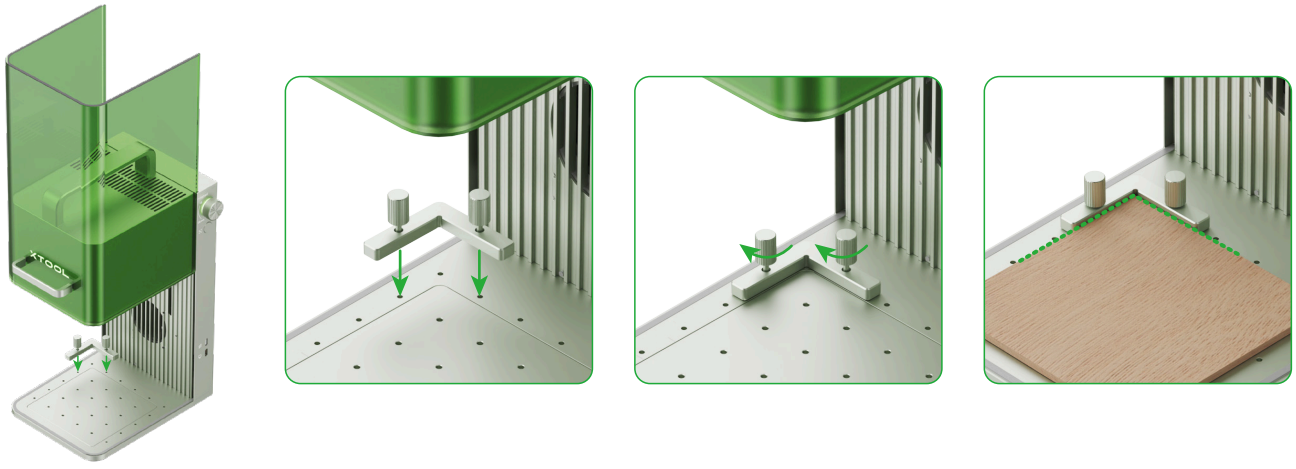
Use the slatted panel

To cut a material, you are advised to use the slatted panel. It can reduce the areas burned during material processing and protect the baseplate.

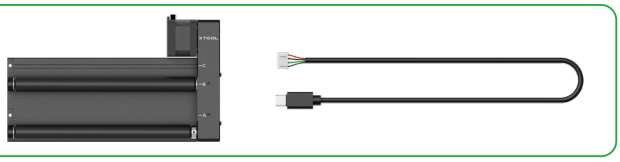


Use the L-shaped positioning piece

During batch processing, the L-shaped positioning piece can help you place a material in the same position every time.



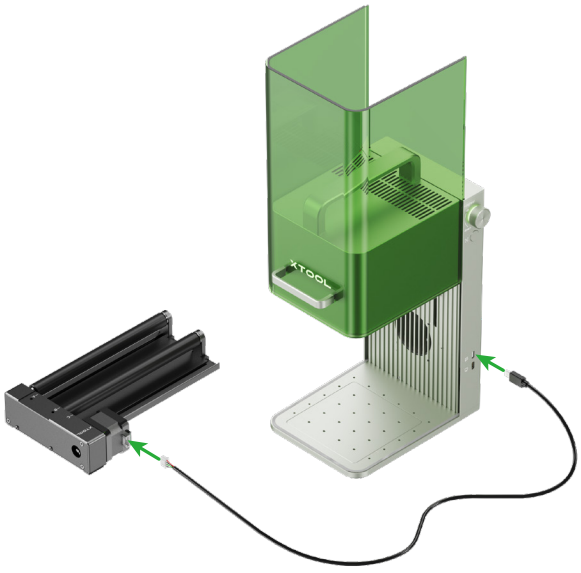
Use xTool F1 with the rotary attachment



No rotary attachment is included in the pack.

Strictly follow the safety instructions to use xTool F1 with the rotary attachment. Set up a safety-controlled area under the guidance of the Laser Safety Officer (LSO), and take sufficient personal protective measures against laser risks.

1



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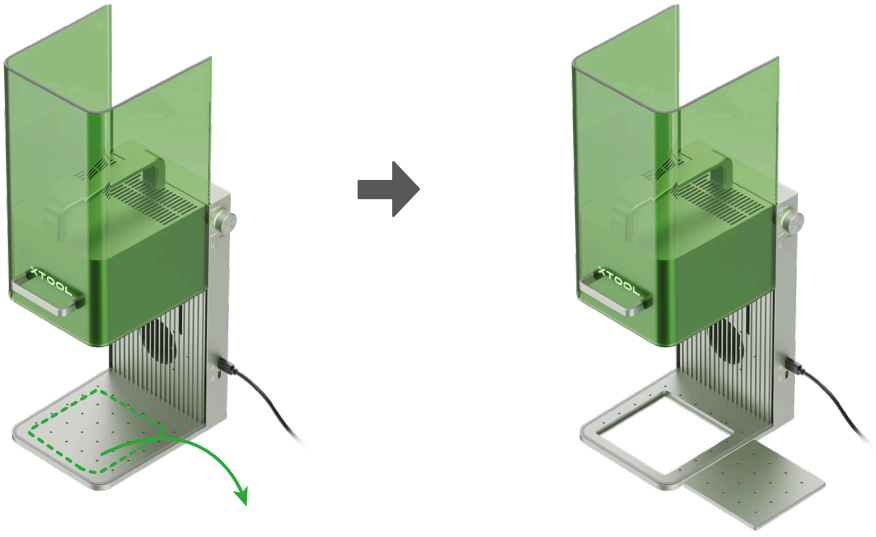
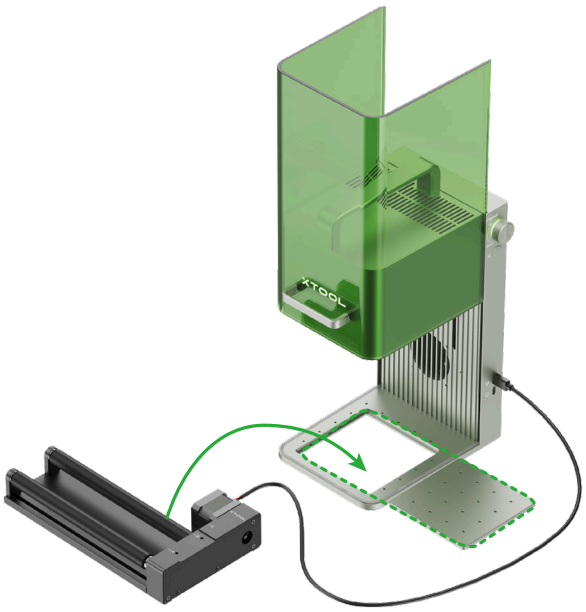
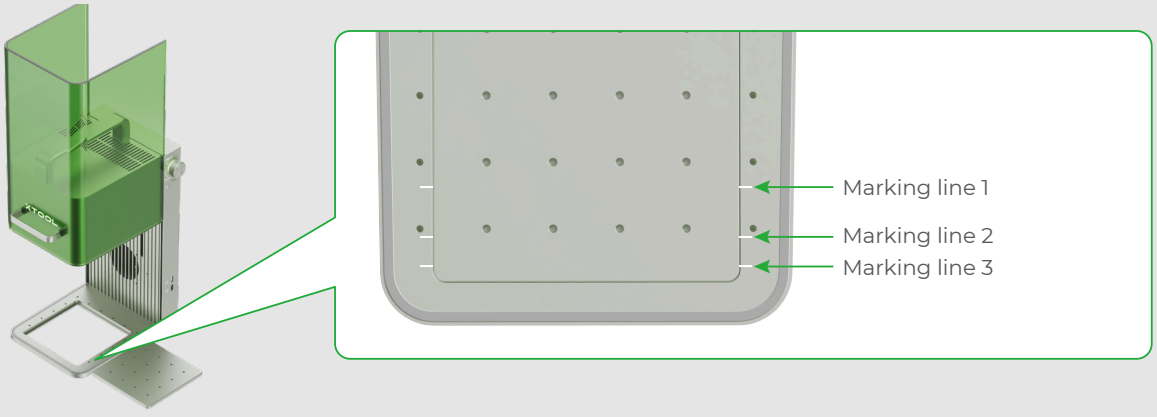
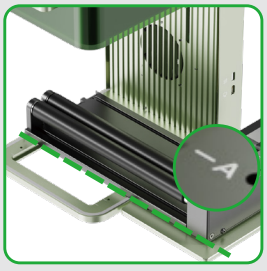


3

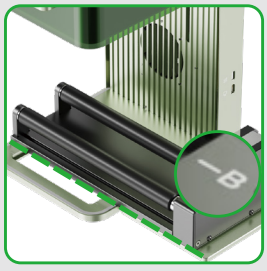


There are three marking lines on the base of xTool F1. Depending on the working mode and level setting of your rotary attachment, align its front bottom edge to the corresponding marking line.

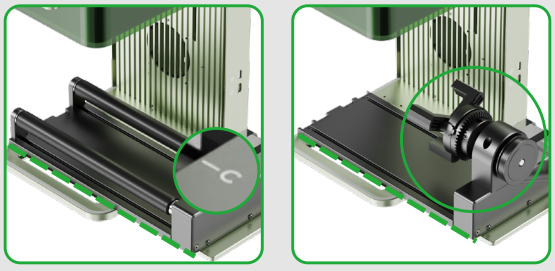




Align with marking line 1



Align with marking line 2



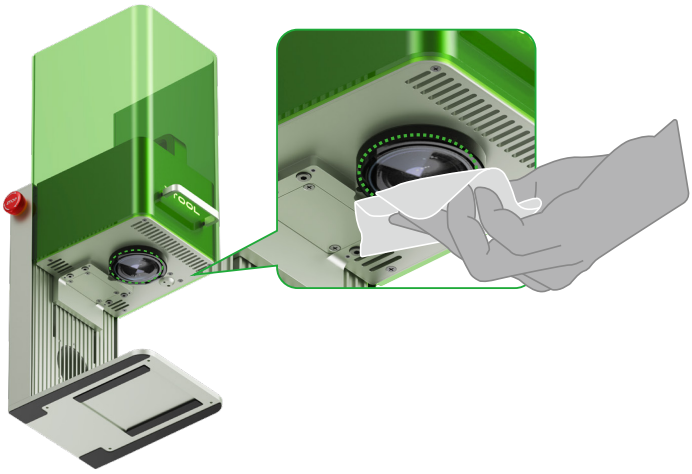
Align with marking line 3

For details about how to use xTool F1 with the rotary attachment, scan the QR code or visit **support.xtool.com/article/1574**.

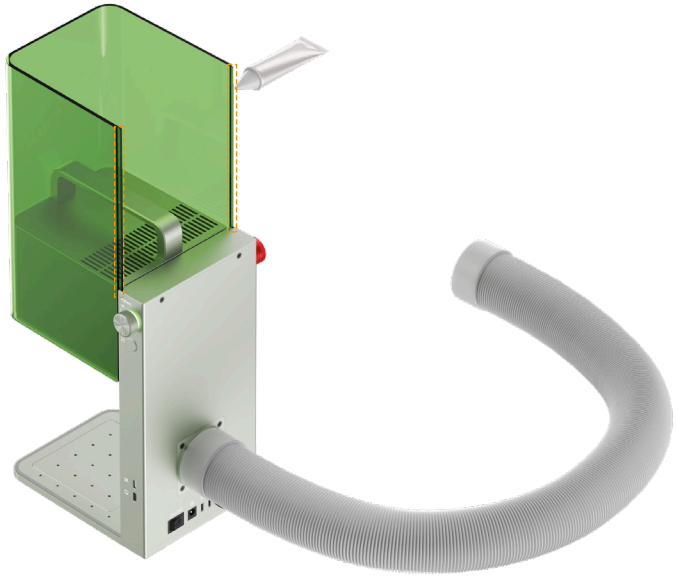
Maintenance

⚠ Disconnect power before maintaining the product.

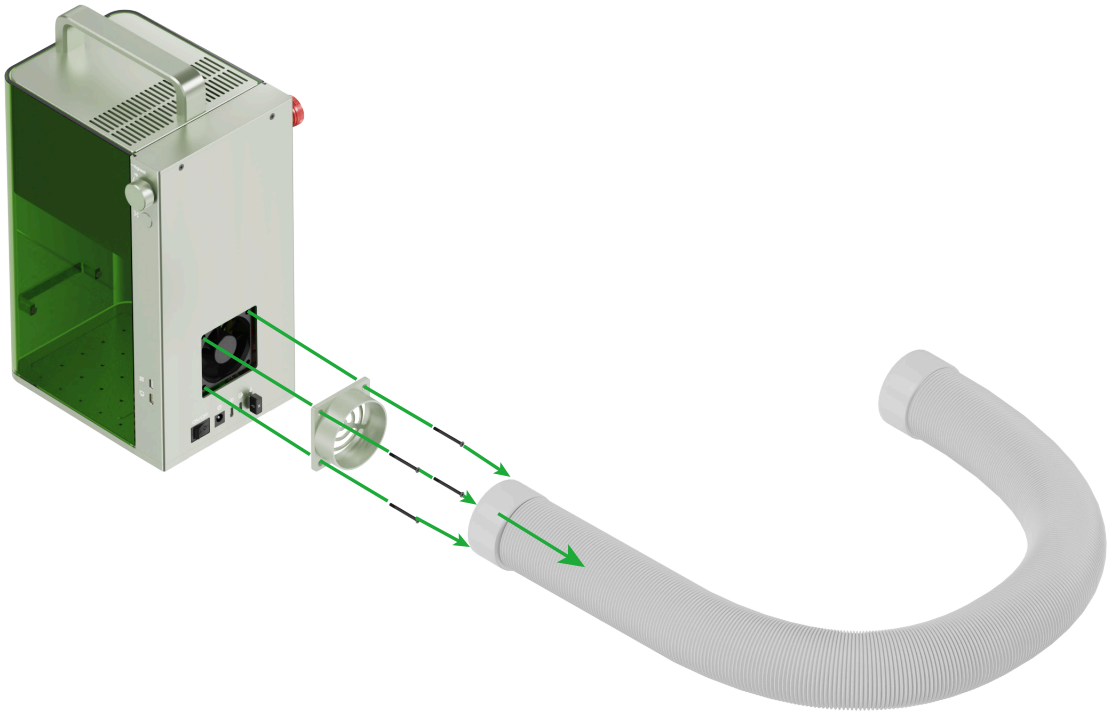
■ If laser power attenuation occurs, for example, engraved patterns are shallow or materials can't be cut as expected, the field lens may get dirty. Clean it with the lint-free cloth moistened with alcohol.

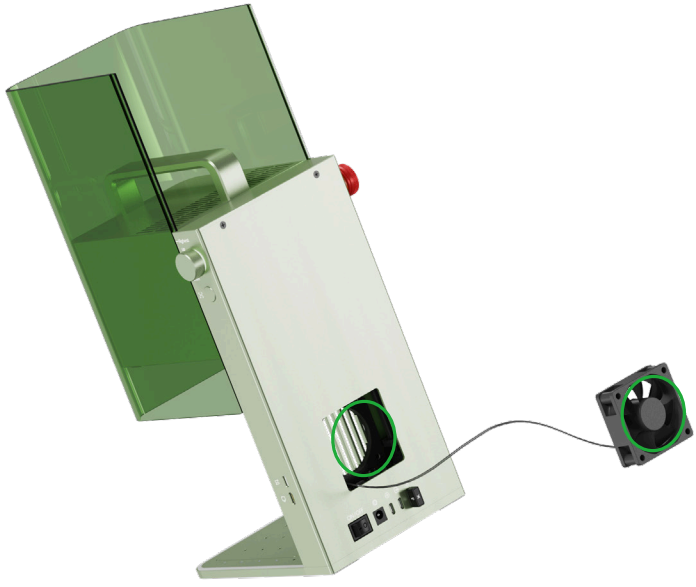


■ If you can't move the protective enclosure up and down smoothly, apply grease to the edges of the two sides.



■ If smoke runs out of the protective enclosure, the fan and smoke outlet may be blocked due to dust. Clean them to ensure proper smoke exhausting.





⚠ To avoid dust falling into the circuit board, slightly tilt the machine.

XTOOL

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