

THANK YOU!

Dear xTooler:

Thank you for choosing xTool F1. We are so grateful for your recognition, and sincerely hope you will enjoy this product!

xTool F1 is the world's first galvanometer-type laser engraver and cutter that integrates a 2 W 1064 nm infrared laser with a 10 W 455 nm diode laser. It is small and portable, equipped with a protective enclosure, and compatible with xTool smoke purifiers. Whether you are a novice or an expert, whether you use it at home or for business purposes, xTool F1 is ready to give you the best laser engraving & cutting experience.

Our mission is to make it easier for everyone to create with our machine. We attach great importance to product experience and user suggestions. Please let us know if you have any questions anytime. We are always here to help. You can join our Facebook group to share creative ideas and get inspired by others.

By visiting our online store, you can also find our latest accessories and various materials to maximize the magic of xTool F1.

Thanks again for your support, and we will consistently provide quality products and services in the future.

Sincerely,

 CEO

Official website: xtool.com
Facebook group: [xTool F1 launch group / Makeblock xTool Official Group](#)
Support center: support.xtool.com
Technical support: support@xtool.com
Video tutorial: youtube.com/c/xToollaserbox?sub_confirmation=1

EN	1
DE	10
ES	19
FR	28
IT	37
NL	46
PT	55
JP	64
KO	73
TC	82
ZH	91

Contents

01 Safety first (important)

2

02 List of items

3

03 Meet your xTool F1

3

04 Use your xTool F1

4

05 Use Rotary Attachment

8

06 Maintenance

8

07 After-sales services

9

08 Statement

9

Note: There are two color options for this product. This manual uses only one of the models for demonstration.

01 Safety first (important)

1. General safety

Read and get familiar with all safety precautions and procedures before using the machine. Strictly follow all safety precautions. Ensure that the machine is properly assembled and is working properly.

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Follow the operating principles:
 - Check the machine for damage every time before you use it. Do not operate it in any way when any damage or defect is found.
 - Ensure that the workspace is clean and flat.
 - Do not disassemble the machine or change its structure in any way without authorization. Do not modify or decompile its operating system.
 - Do not leave the device unattended during operation. Pay attention to whether it is working properly.
 - Keep the inside of the machine clean. Residues and chippings accumulated during cutting and engraving are dangerous and may cause a fire. Clean the chippings and residues inside the work area regularly.
 - The machine works properly at the temperature of 10°C to 30°C. Do not operate it at a temperature lower than 0°C.

2. Laser safety

Under normal circumstances, the laser is blocked by the device body and protective enclosure during operation. Before using xTool F1 to process an object, ensure that the protective enclosure is pulled down to cover the object. If the protective enclosure cannot fully cover the object, you need to wear safety goggles that can shield your eyes from 455 nm and 1064 nm laser beams. The device has a safety interlock switch. If the device is moved during operation, it will stop working to prevent harming people.

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Follow the safety precautions:
 - Do not operate the machine when any part of it is removed. Removing any part may expose the laser system and cause damage to the machine.
 - Do not engrave or cut any material that contains PVC or vinyl (processing plastics is not recommended). These materials (and other materials containing chlorine/chloride) can generate corrosive vapor that is extremely harmful to the human body and can cause damage to the device. Any damage caused by engraving or cutting any material containing PVC or vinyl is not covered by the Company's warranty.
 - Do not engrave or cut any unknown materials. Vaporization or melting of many materials, which include but are not limited to PVC and polycarbonate, may release harmful smoke.
 - Do not leave the device unattended during operation. Pay attention to whether it is working properly.

3. Fire safety



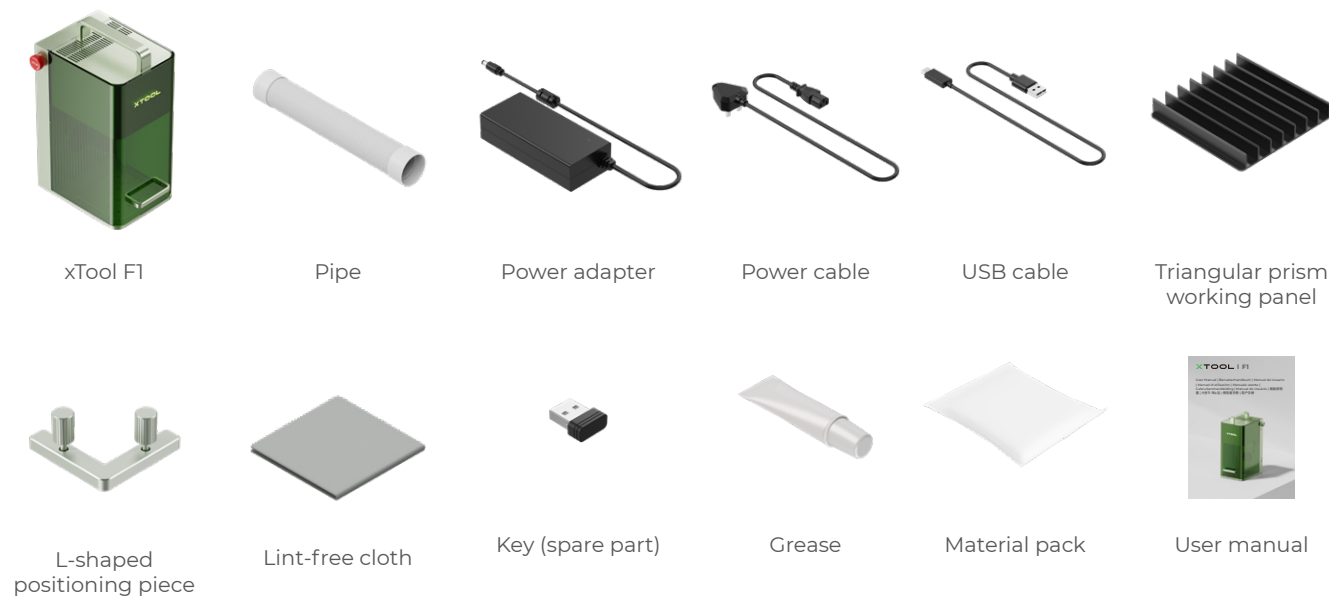
Do not leave the device unattended when it is working.



Keep combustible materials away from the device.

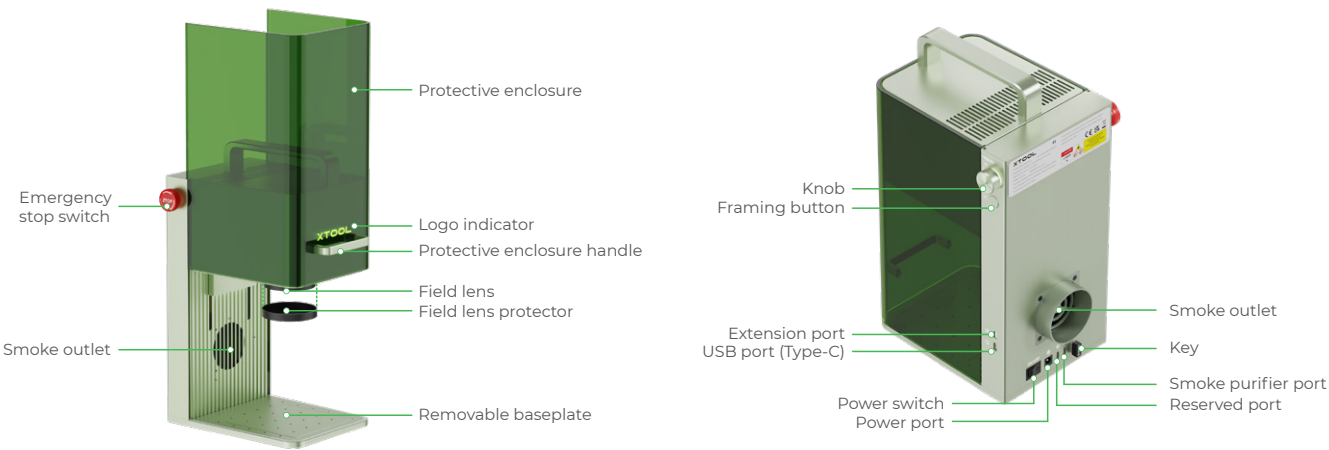
A high-density laser beam is used by the device to irradiate the material to be cut or engraved, so as to heat up the material surface and vaporize the material without burning. But most materials are inherently flammable and may be ignited to form an open flame that can burn down the device (even if it is made of flame-retardant materials) and its surroundings. Experience shows that vector cutting with a laser is most likely to produce an open flame.

02 List of items



03 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	Network setting
	Solid blue	Connected to the software
	Solid green	Task completed
	Solid purple	Firmware updating
	Solid red	Exceptions occur
	Blinking red for 3 times	Invalid operation
Blinking	Solid blue	Performing a task
Going off	Blinking white slowly	Sleep state entered when no operation is performed within 10 minutes

Specifications

Product name	xTool F1
Size	179 mm × 235 mm × 334 mm
Connection mode	Wi-Fi, USB
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)
Internal working area	100 mm × 100 mm
Maximum processing speed	4,000 mm/s

04 Use your xTool F1

Preparations

1 Install the pipe.



Use software to operate xTool F1

1

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

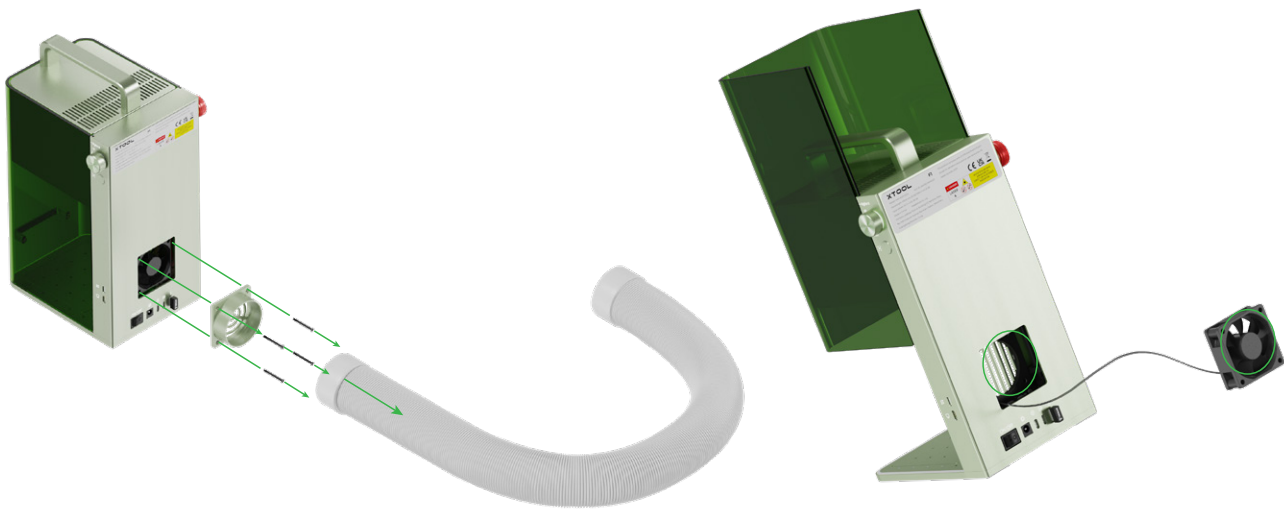
2

Turn on xTool F1, connect it to a PC, and then connect it on XCS.

■ 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 inside of the machine, slightly tilt the machine.



07 After-sales services

For technical support, contact us at support@xtool.com.
For more information about after-sales services, visit support.xtool.com.

08 Statement

Statement

Thank you for choosing xTool products!

If you use the product for the first time, read carefully all the accompanying materials of the product to improve your experience with it. If you do not use the product according to the instructions and requirements of the Manual, or mis-operate the product due to misunderstanding, etc., the Company shall bear no responsibility for any loss resulting therefrom.

The Company has collated the content of the Manual rigorously and carefully, but errors or omissions may remain.

The Company is committed to continuously improving product functions and service quality, and therefore reserves the right to change any product or software described in the Manual and the content of the Manual at any time.

The Manual is intended to help you use the product properly and does not include any description of hardware and software configuration. For product configuration, refer to the related contract (if any) and packing list, or consult your distributor. Images in the Manual are for reference only and the actual product may vary.

Protected by copyright laws and regulations, the Manual shall not be reproduced or transcribed in any way, or be transmitted on any wired or wireless network in any manner, or be translated into any language, or be modified in any way, such as content, image, or layout modification, without the prior written authorization of the Company.

CE

Declaration of conformity

Hereby, Makeblock Co., Ltd., declares that this product is in compliance with the essential requirements and other relevant provisions of Directive RED 2014/53/EU and the RoHS directive 2011/65/EU & (EU) 2015/863.

FCC statement

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.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

01 Sicherheit geht vor (wichtig)

1. Allgemeine Sicherheit

Machen Sie sich mit allen Sicherheitsmaßnahmen und -verfahren vertraut, bevor Sie die Maschine verwenden. Die Anwender müssen alle nachstehenden Vorsichtsmaßnahmen strikt befolgen und sicherstellen, dass die xTool F1 ordnungsgemäß montiert und funktions

Technische Daten

Produktbezeichnung	xTool F1
Größe	179 mm × 235 mm × 334 mm
Anschlussmodus	WLAN, USB
Eingangsleistung	24 V = 5 A, 120 W

05 Verwenden Sie die Rotationsvorrichtung



Im Paket ist keine Drehvorrichtung enthalten. Wenn das im Lieferumfang des Drehvorrichtung enthaltene Anschlusskabel nicht mit xTool F

Contenido

01 Primero la seguridad (importante) – – – – – 20

02 Lista de artículos– – – – – 21

03 Conozca a su xTool F1 – – – – – 21

04 Utilice xTool F1 – – – – – 22

05 Uso del Módulo Rotativo . – – – – – 26

06 Mantenimiento - – – – – 27

07 Servicio de posventa – – – – – 27

08 Informe - – – – – 27

Nota: Existen dos opciones de aspecto para este producto. En este manual se utiliza solo uno de los modelos para la demostración.

01 Primero la seguridad (importante)

1. Seguridad general

Lea y familiarícese con todas los procedimientos y precauciones de seguridad antes de utilizar la máquina. Los usuarios deben seguir todas las precauciones de seguridad en forma estricta y asegurarse de que el xTool F1 esté ensamblado adecuadamente y en buenas condiciones de funcionamiento.

- ⚠

Cumpla con los siguientes principios de funcionamiento:

 - Revise que el xTool F1 no tengan daños en todo momento antes de su uso. Evite utilizar un xTool F1 dañado o defectuoso de forma alguna.
 - Conserve el área de trabajo limpia y plana.
 - Si no está autorizado, evite desarmar o cambiar la estructura del xTool F1 en forma alguna. Así mismo, evite modificar o descompilar el sistema operativo del xTool F1 por cuenta propia.
 - No deje la máquina sin supervisión mientras está en funcionamiento. Preste atención si está funcionando adecuadamente.
 - Conserve limpia la parte interna del xTool F1. Los residuos y astillas acumulados durante el corte y grabado son peligrosos y pueden ocasionar un incendio. Limpie regularmente las virutas y los residuos del interior del área de trabajo.
 - La temperatura de funcionamiento del láser es de 10°C y 30 °C. Se prohíbe estrictamente el funcionamiento por debajo de 0 ° C.

2. Seguridad del sistema láser

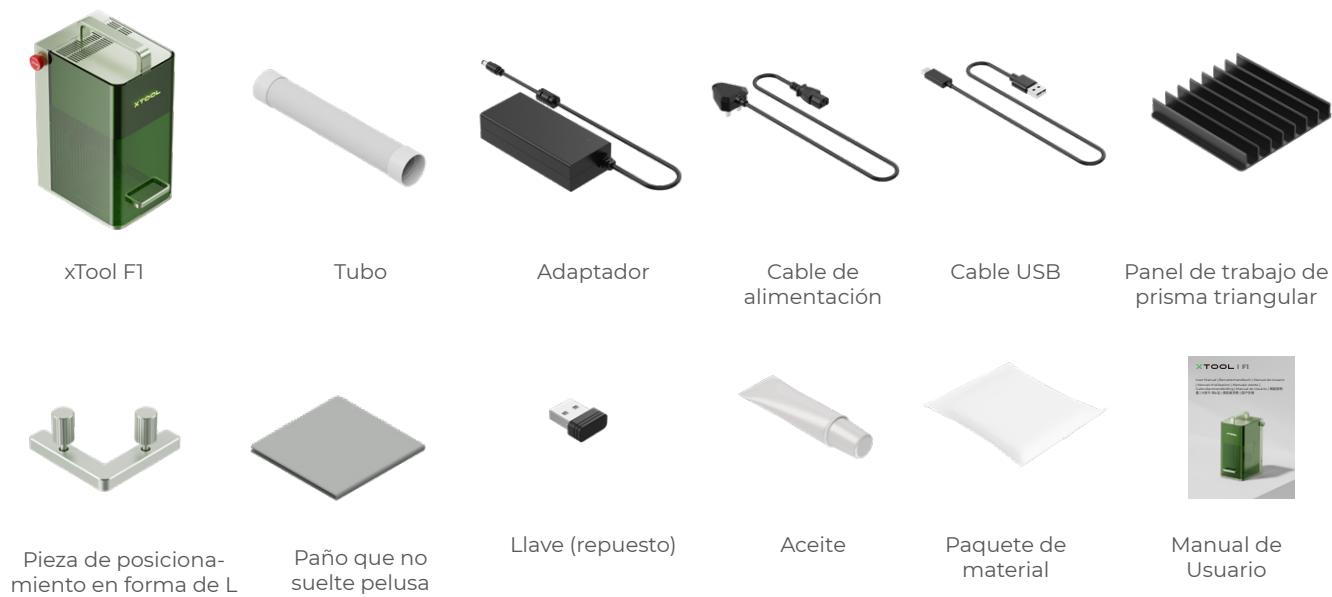
En circunstancias normales, el láser queda bloqueado por el cuerpo del aparato y la cubierta protectora durante el funcionamiento. Antes de utilizar el xTool F1 para procesar un objeto, asegúrese de que la cubierta protectora está bajada para cubrir el objeto. Si la carcasa protectora no puede cubrir completamente el objeto, deberá llevar gafas de seguridad que puedan proteger sus ojos de los rayos láser de 455 nm y 1064 nm. El aparato dispone de un interruptor de enclavamiento de seguridad. Si el aparato se mueve durante su funcionamiento, dejará de funcionar para evitar daños a las personas.

- ⚠

Cumpla con los siguientes lineamientos de seguridad:

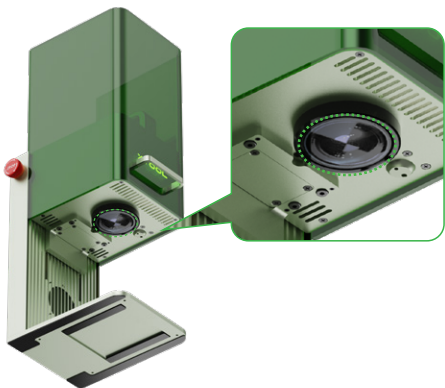
 - Recuerde que la falta de cualquier pieza del xTool F1 puede exponer el sistema láser y aumentar el riesgo de daño al equipo.
 - Evite grabar o cortar cualquier material que contenga PVC o vinilo (no se recomienda los plásticos procesados). Estos materiales (y otros que contienen cloro/cloruro) pueden generar vapor corrosivo extremadamente dañino para el cuerpo humano y puede ocasionar daños al xTool F1. La garantía de la empresa no cubre daños ocasionados por grabar o cortar materiales que contengan PVC o vinilo.
 - Evite grabar o cortar material desconocido. La vaporización/ fundición de muchos materiales, incluso PVC y policarbonato, entre otros, liberará humo dañ

02 Lista de artículos



06 Mantenimiento

■ Si se produce una atenuación de la potencia del láser, por ejemplo, los patrones grabados son poco profundos o los materiales no se cortan como se esperaba, la lente puede ensuciarse. Límpiela con un paño sin pelusas humedecido con alcohol.



01 La sécurité d'abord (Important)

1. Sécurité générale

Avant d'utiliser la machine, lisez et familiarisez-vous avec toutes les précautions et procédures de sécurité. Les utilisateurs doivent suivre strictement toutes les précautions de sécurité et s'assurer que le xTool F1 est correctement as

Indice

01 La sicurezza prima di tutto (importante) – – – 38

02 Elenco degli articoli - – – – – 39

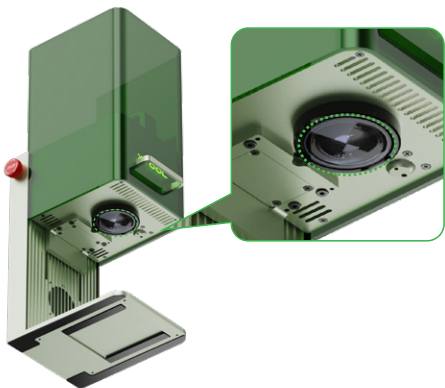
03 Scopri il tuo xTool F1 - – – – – 39

04 Usare xTool F1 – – – – – 40

05 Utilizza il tuo Mod

06 Manutenzione

■ Se il laser perde di potenza a causa della lente di campo sporca, non sarà possibile, ad esempio, incidere i motivi in profondità o tagliare il materiale come previsto. In tal caso, rimuovere lo sporco con un panno privo di pelucchi inumidito con alcol.



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Índice

01 Segurança em Primeiro Lugar (Importante) – – 56

02 Lista de itens – – – – – 57

03 Conheça a sua

06 Manutenção

■ Se ocorrer uma atenuação da potência do laser (por exemplo, os padrões gravados são superficiais ou não é possível cortar os materiais como esperado), a lente de campo pode ficar suja. Limpe-a com o pano sem pelos humedecido com álcool.

목차

01 안저제일 (중요함) - - - - - 74

02 아이템 목록 - - - - - 75

03 xTool F1를 만나보세요. - - - - -

06 유지 보수

■ 예를 들어 각인 패턴이 가늘거나 소재를 예상대로 절단할 수 없는 경우에 레이저 전력이 감쇠하면 필드 렌즈가 오염될 수 있습니다. 알코올에 적신 보푸라기 없는 천으로 닦으십시오.

目录

01 安全第一（必读）

92

02 物料清单

93

03 认识 xTool F1

93

04 使用 xTool F1

94

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xTool F1整机快速指南_多国语言_V1.0_D2.1.6_KD010591000_Edit

成品尺寸：210*280mm

展开尺寸：420*280mm