

**CREALITY**  
创想三维

创造现实，成就梦想  
Create reality, achieve dreams



CV-01

CV-01

# User manual for laser engraving machine

## 激光雕刻机用户使用手册

V1.0



## Dear Consumers

Thank you for choosing our products. For the best experience, please read the instructions before operating the Printer. Our teams will always be ready to render you the best services. Please contact us via the phone number or e-mail address provided at the end when you encounter any problem with the Printer.

For a better experience in using our product, you can also learn how to use the printer in the following ways:

View the accompanied instructions and videos in the TF card.

Visit our official website [www.creality.com](http://www.creality.com) to find relevant software/hardware information, contact details and operation and maintenance instructions.

## 尊敬的用户：

感谢您选择创想三维的产品。为了您使用方便,请您在使用之前仔细阅读本说明书,并严格按照说明书的指示进行操作。

创想三维团队时刻准备为您提供优质的服务。在使用过程中无论遇到什么问题,请按照说明书结尾所提供的电话、邮箱与我们

进行联系。为了您能够更好地体验我们的产品,您还可以从以下方式获取设备操作知识:

随机使用说明:您可以在TF卡内找到相关使用说明及视频。

您还可以登陆创想三维官网([www.cxsw3d.com](http://www.cxsw3d.com))寻找相关软硬件、联系方式、设备操作、设备保养等信息。

## Firmware Upgrade

Please login the official website <https://www.creality.com/download>, switch the language and select the relevant printer and model and download the required firmware, you can use it after the installation is finished.

## 固件升级

请您登录官网<https://www.cxsw3d.com>, 点击首页服务支持下载所需固件, 安装完成后即可使用。

## NOTES 使用须知

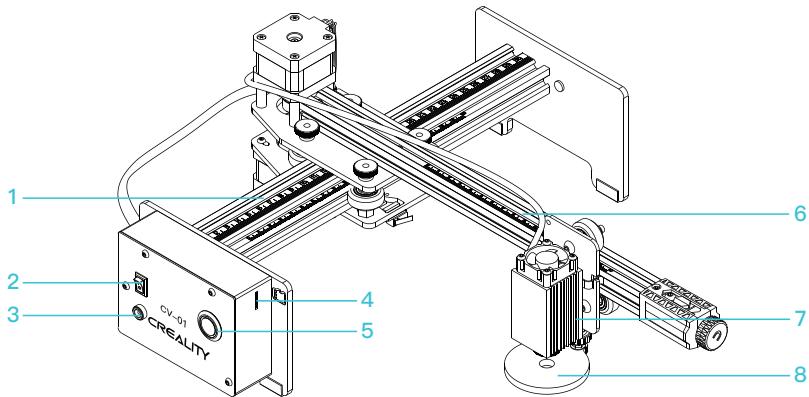
For the purpose of engraving or cutting with a laser engraving machine, allow the workpiece to be exposed to the high-density laser beam emitted by the laser engraving machine. The workpiece may be subject to gasification without combustion as it is pretty hot on the surface. On the other hand, most workpieces are essentially combustible, which may be ignited, leading to open fire and consequently to the machine breakdown and environmental contamination.

- ① It is prohibited to store the machine in areas close to combustible and explosive substances, volatile solvents or source of heat. Instead, store it in a well-ventilated, cool and dust-free place;
- ② Make sure that only the specific attached power cord rather than other similar power cords are used during installation;
- ③ Ensure to run the laser at 0°C-35°C. Operation at sub-zero temperature is prohibited;
- ④ It is prohibited to run the machine under wet environment or in thunderstorm weather;
- ⑤ Switch off the machine if it is offline for an extended period of time, and unplug the power cord;
- ⑥ It is prohibited to come in contact with electronic areas with hands or other tools when the machine is connected to power supply;
- ⑦ Touching any moving parts and laser module while the machine is running is prohibited;
- ⑧ Wear goggles to prevent vision damage arising from exposure to the laser spot during laser engraving operation;
- ⑨ It is advisable to run the machine under well ventilated condition as laser engraving may generate small amount of fume or gas;
- ⑩ Children under 10 years old are not allowed to run the machine without adult presence, which otherwise may lead to personal injury;
- ⑪ Put in place fire extinguishers in case of use, which shall be regularly checked. It is prohibited to keep the machine unattended while it is running;
- ⑫ Users should comply with the laws and regulations of the corresponding countries and regions where the equipment is located (used), abide by professional ethics, pay attention to safety obligations, and strictly prohibit the use of our products or equipment for any illegal purposes. Creality will not be responsible for any violators' legal liability under any circumstance.

激光雕刻机在雕刻或切割材料时使用高密度激光束照射材料,使材料表面产生高温,目的是在不燃烧的情况下使材料气化。但大多数材料本质上是易燃的,可能被点燃并形成明火,明火可能烧毁机器及其周围环境。

- ① 请勿将本产品放置在易燃易爆物品、挥发性溶剂或高热源附近,请将本产品放置在通风、阴凉、少尘的环境内;
- ② 请勿在安装过程中使用其他产品电源线代替,请使用本产品附带的电源线;
- ③ 激光工作环境温度在0°C-35°C,严禁在零下温度运行;
- ④ 避免在潮湿环境下使用本产品,切勿在雷雨天气下使用本产品;
- ⑤ 如长时间不使用本产品,请关闭本产品,并断开电源线;
- ⑥ 本产品已连接电源时,请勿用手或其他工具触碰电子相关区域;
- ⑦ 本产品运行时,请勿触碰正在运动的机械机构及激光模组;
- ⑧ 激光雕刻过程中,请务必佩戴护目镜,避免直视激光光斑带来的视力损伤;
- ⑨ 激光雕刻过程中可能会产生少许烟雾或气味,建议在通风良好的环境下操作;
- ⑩ 年龄在10岁以下的儿童,请勿在没有成人监督的情况下使用本产品,以免造成人身伤害;
- ⑪ 准备好灭火器备用,定期维护和检查灭火器,操作期间切勿让本产品无人看管;
- ⑫ 使用者应遵守设备所在地(使用地)相应国家、地区法律法规,恪守职业道德,注意安全义务,严禁将我司的产品或设备使用在任何非法用途上。如有违反者所应承担的相关法律责任我司概不负责。

|   |       |
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1 Y axis assembly Y轴组件

2 Power switch 电源开关

3 Power port 电源接口

4 TF card slot TF卡槽

5 Function key 功能按键

6 X axis assembly X轴组件

7 Laser module 激光模组

8 Eye protection baffle 护目挡板

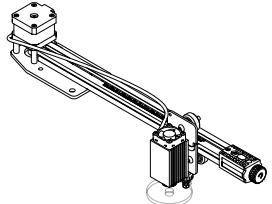
## 2. Equipment parameters 设备参数



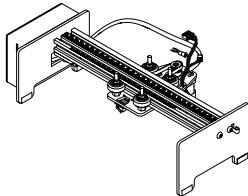
Basic Parameters 基本参数

|  |  |
|--|--|
| Model   型号                               | CV-01  |
| Machine size   设备尺寸                      | 416*360*137mm  |
| Machine weight   机器重量                    | 1.80KG   |
| Gross weight   机器毛重                      | 2.95KG   |
| Operation system   操作系统                  | Windows XP and above systems   windows XP以上系统  |
| Power Supply   额定电压                      | Input 输入:AC100-240V 50/60Hz Output 输出:DC 12V   |
| Range of operating temperature<br>工作温度范围 | 0°C-35°C   |
| Moulding dimension 成型尺寸                  | 170mm*200mm  |
| Laser source   激光源                       | Semiconductor laser unit 半导体激光器  |
| Laser wave length   激光波长                 | 450nm  |
| Output power   输出功率                      | 1.6W   |
| Safety class   安全等级                      | Class IV (FDA classification standard) Class IV (FDA 分类标准)   |
| Laser engraving software   激光雕刻软件        | CrealityLaser  |
| Format of supporting files   支持文件格式      | jpeg,jpg,png,bmp,svg   |
| Type of support materials   支持材料类型       | Cardboard, wood board, bamboo board, rubber board, leather, fabrics, acrylic, anodized oxidized metal, lacquer metal, plastics, etc.<br>纸板、木板、竹板、橡胶板、皮革、织物、亚克力、阳极氧化金属、漆面金属、塑料等 |

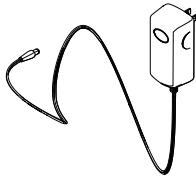
### 3. Package Content 零部件清单



① X axis assembly | X轴组件 x 1



② Y axis assembly | Y轴组件 x 1



③ Power adaptor | 电源适配器 x 1



Open box parts 开箱零部件



④ Knurled nut with  
collar x 4  
滚花高头螺母



⑤ Goggles x 1  
护目镜



⑥ Open spanner x 1  
开口扳手



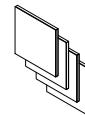
⑦ Socket head  
wrench x 1  
内六角扳手



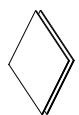
⑧ TF card & card  
reader x 1  
TF卡&读卡器



⑨ Silica gel anti colli-  
-sion particles x 2  
硅胶防撞颗粒



⑩ Single-face anti  
-skid adhesive x 4  
单面防滑胶



⑪ Kraft paper x 2  
牛皮纸



⑫ Linden plywood x 2  
椴木板



⑬ Color asphalt felt  
paper x 7  
彩色毛毡纸



⑭ Color card paper x 7  
彩色卡纸



⑮ Focus paper x 1  
对焦纸

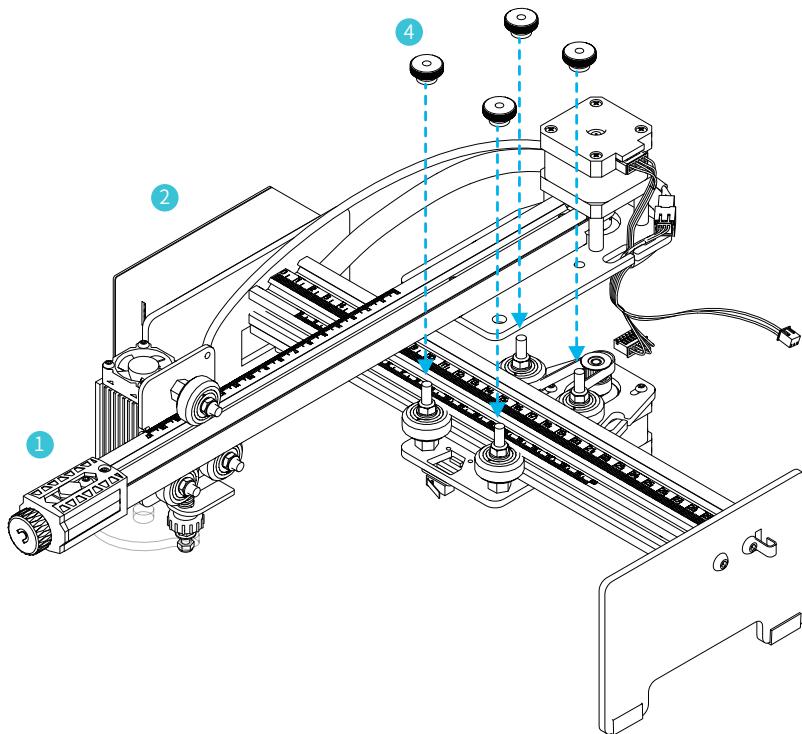
Tips: the above accessories are for reference only, in kind prevail! 注意:以上配件仅供参考,请以实物为准!

## 4. Assembled laser engraving machine 组装激光雕刻机

As illustrated below, horizontally place X axis assembly above Y axis assembly, and align the tapped holes to the projected screws underneath. Then, lower it horizontally onto Y axis assembly. Finally, put on 4 knurled nuts with collar, and tighten them clockwise.

如下图中所示,将X轴组件水平放置到Y轴组件的上方,螺丝孔位与下方突出的螺丝对齐,然后保持水平向下安装到Y轴组件上,最后装上4颗滚花高头螺母,顺时针方向拧紧。

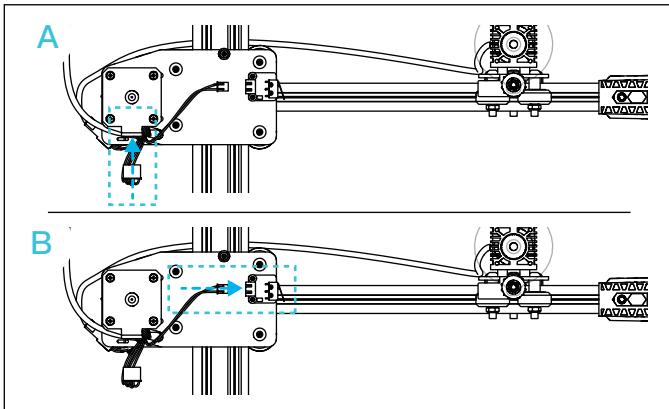
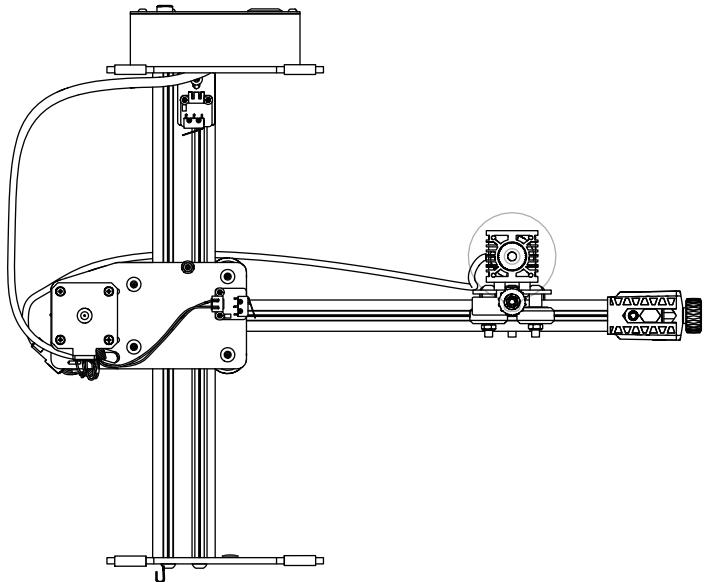
- ① X axis assembly | X轴组件 x 1
- ② Y axis assembly | Y轴组件 x 1
- ④ Knurled nut with collar  
滚花高头螺母 x 4



## 5. Installation and wiring 安装接线

&gt;&gt;&gt;

Wiring and installation schematic  
接线安装好效果图



### A Install the Y-axis stepper motor cable:

Insert the Y-axis stepper motor wire into the wiring port in the direction as shown in the above figure. The wiring port has an anti-reverse connection design, please pay attention to distinguish the direction of the interface.

### B Install the limit switch connection line:

Insert the limit switch connection line into the connection port in the direction as shown in the above figure. The connection port has an anti-reverse connection design, please pay attention to distinguish the direction of the interface.

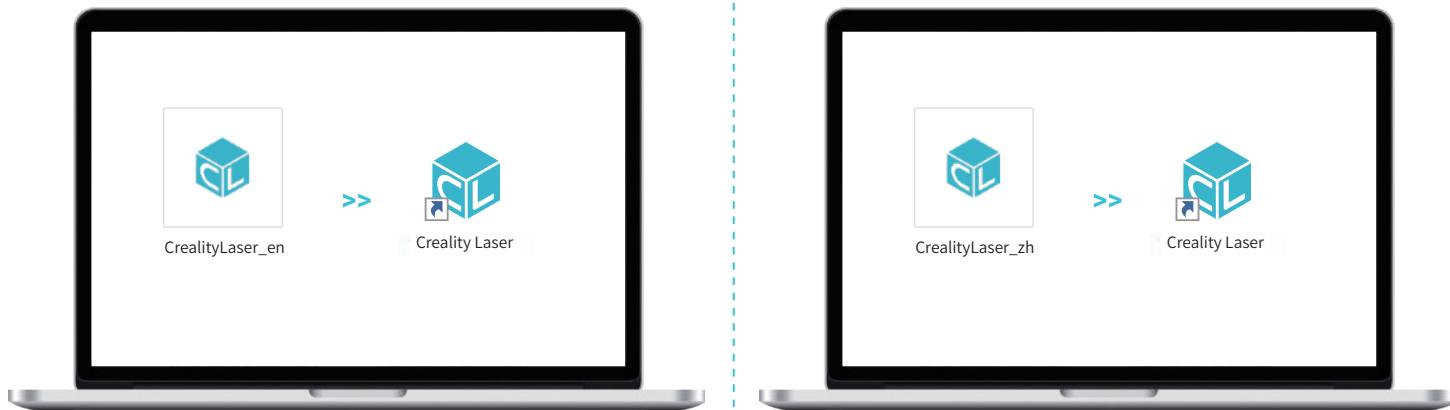
### A 安装Y轴步进电机线:

如上图中所示, 将Y轴步进电机线按图中所示方向插入步进电机接线端口, 步进电机接线端口有防反接设计, 注意区分接口的方向。

### B 安装限位开关连接线:

如上图中所示, 将限位开关连接线按图中所示方向插入限位开关接线端口, 接线端口有防反接设计, 注意区分接口的方向。

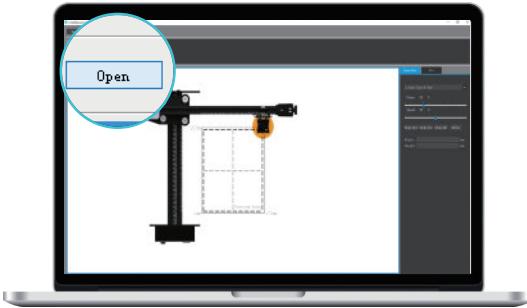
## 6. Software installation 安装软件



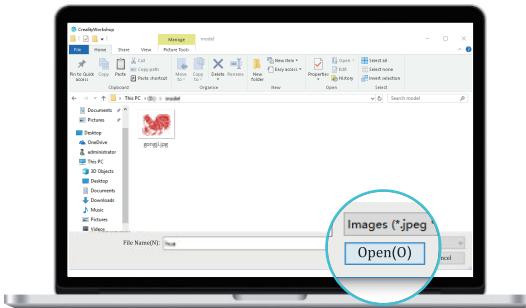
Notes: For details on the software instructions, please refer to the software manual in the memory card!  
温馨提示：软件使用说明详情，请见存储卡内 软件使用手册！

## 7. Start laser engraving 开始激光雕刻

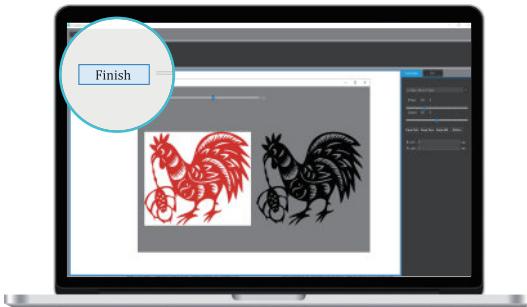
&gt;&gt;&gt;



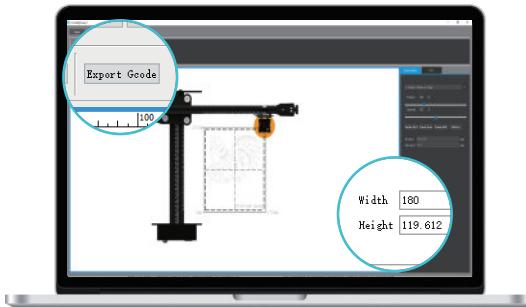
1. Select the engraving mode. Click on “Select file”;



2. Select a file requiring engraving, and click on “Open”;



3. Complete setting of image threshold to an appropriate size, and click on “Done”;

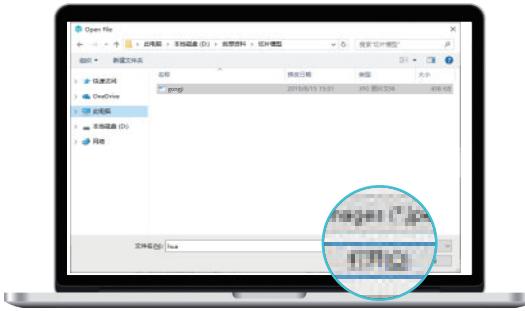


4. Adjust the engraving parameter image dimension and engraving location. Click on “Export Gcode” to export engraving files and store them in TF card.

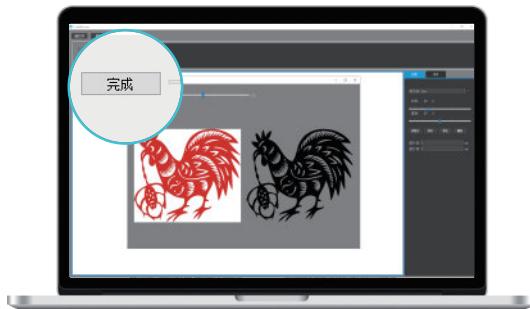
## 8. Start laser engraving 开始激光雕刻



1. 选择雕刻模式，单击“选取文件”；



2. 选择需要雕刻的文件，并“打开”；

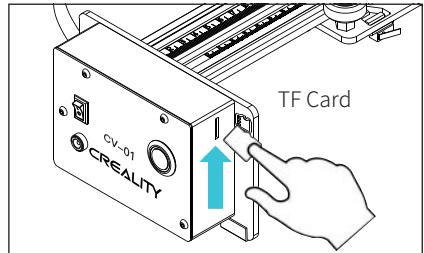


3. 把图像阈值调整到适合大小，点击“完成”；

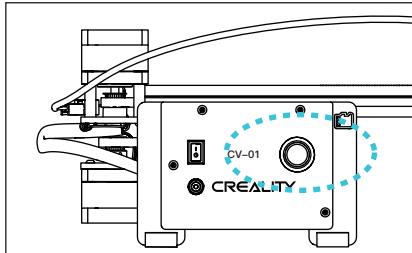


4. 调整雕刻参数图像尺寸、雕刻位置，点击“导出Gcode”，导出雕刻文件并保存到TF卡。

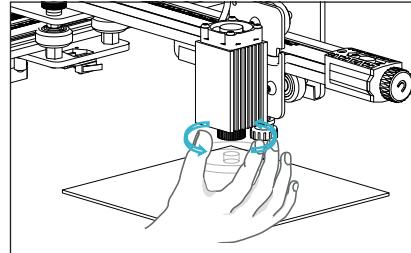
## 9. Start laser engraving 开始激光雕刻



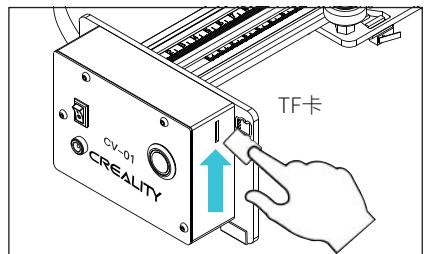
1. Insert the TF card. Switch on the machine until the machine is reset;



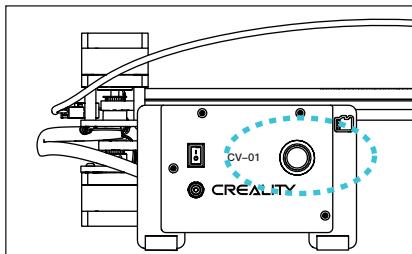
2. Place workpieces at a processing area.  
Press on the function key to check for correct previewed area;



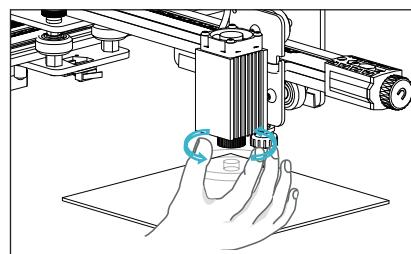
3. Wear goggles and place the zooming paper on the workpiece. Turn the knob in the laser module to obtain desired spot. When the smallest spot on the zooming paper is obtained, it means that adjustment is done. Now, remove the zooming paper. Press the function key again to start engraving.



1. 插入TF卡，接通电源并打开电源开关，等待机器复位完成；

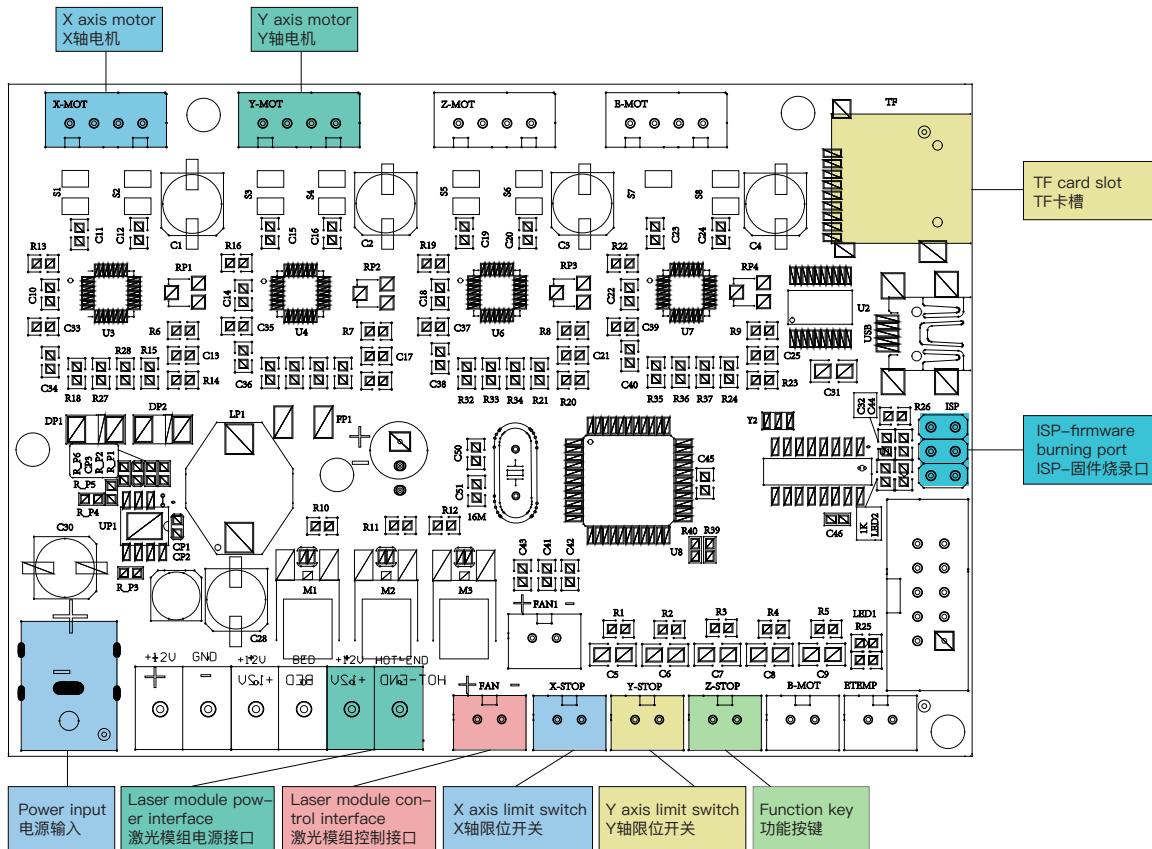


2. 将材料放入加工区域，按下功能按键，检查预览的加工区域是否正确；

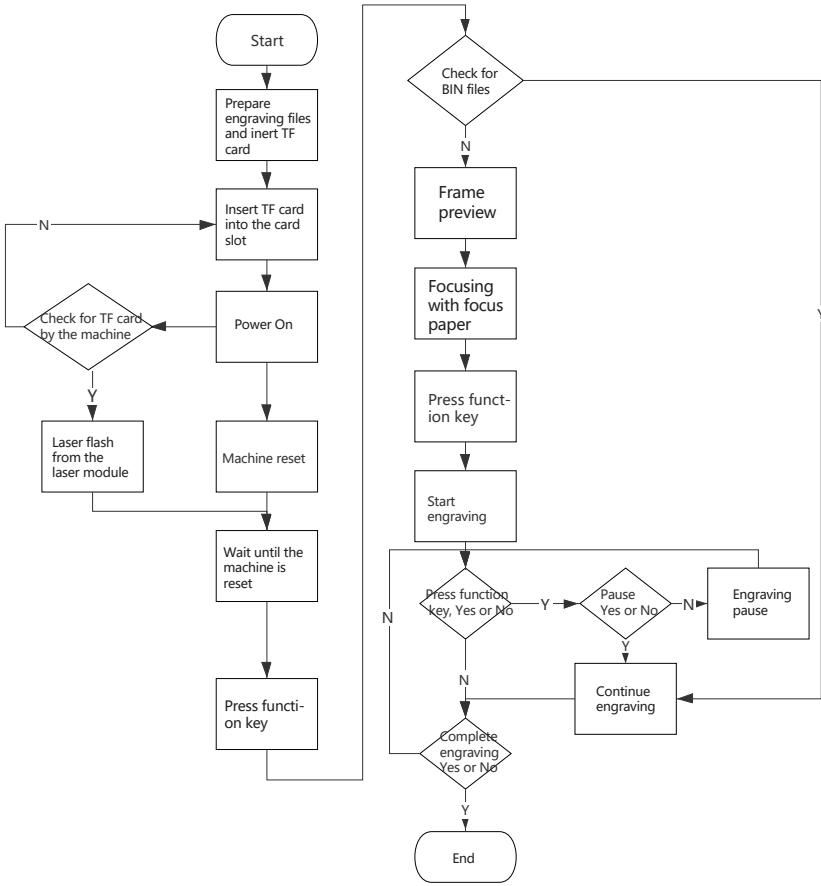


3. 带上护目镜，将对焦纸放到材料表面，调节激光模组上的旋钮来调节光斑大小。当调焦纸上的光斑最小时，即调节完成，可以移除调焦纸，再次按下功能按键开始雕刻。

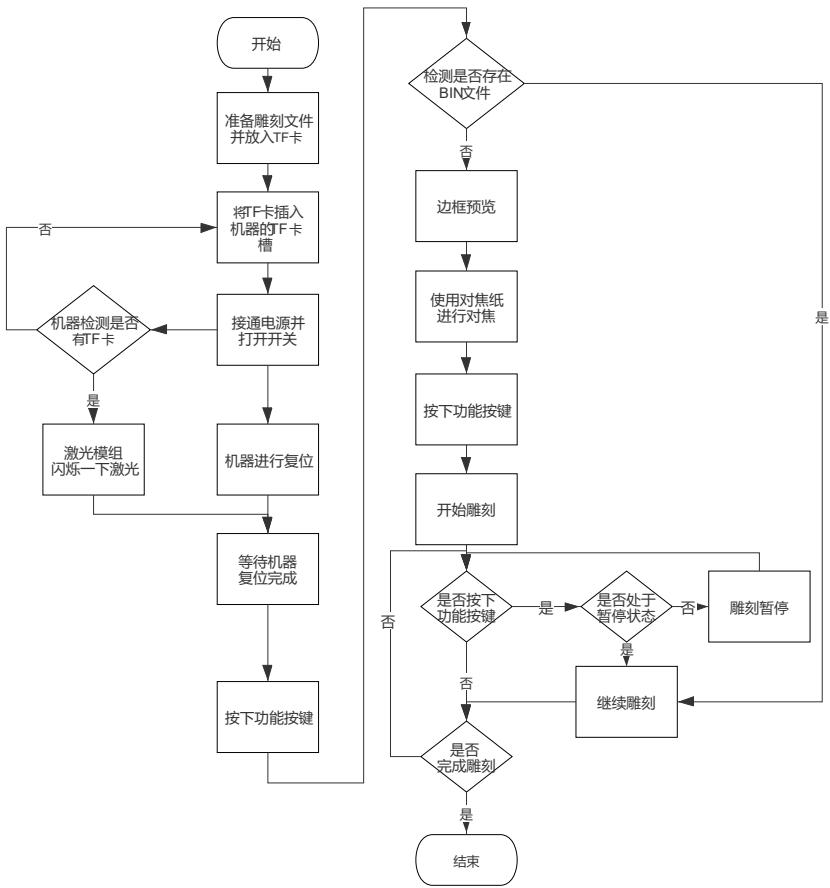
## 10. Circuit Wiring 电路接线



## 11. Operation flow chart



## 12. 操作流程图



### Warranty Policy

①1-year Limited Warranty since the date of product purchase.

②No Warranty for the Product Gifts (Goggles、Wrench、TF Card、Single side non-slip adhesive、Brown paper、Plank, etc.).

What is covered?

Any defects in material, workmanship of product will be covered until you provide any relating documents and information, including but not limited to:

- ①User of the product are in the country of purchase
- ②Defective product is a CREALITY product
- ③Proof of Purchase



Hotline:+86 755-85234565

### What is not covered?

CREALITY does not guarantee the service as a result of:

- 1.The proof of purchase being altered or made illegible.
- 2.The product label; or serial number on the product being altered or made illegible.
- 3.Normal wear of accessories or consumables for use as release film.
- 4.Malfunction or damage caused by personal retrofitting, or improper installation and usage.
- 5.Malfunction or damage caused by use in non-recommended working environments.
- 6.Malfunction or damage caused by overuse (overload) or wrong maintenance (damp, mildew, etc.).
- 7.Malfunction or damage caused by Force Majeure (fire hazard, earthquake, lightning and floods, etc.)
- 8.Malfunction or damage caused by the use of other brand parts or consumable.

### Technical Support

Please enjoy our technical support of the whole lifetime (Except technical problem beyond product itself) after purchase the product while product documents as user manual attached in U disk for instruction.

Please provide product Serial Number when apply for technical support.

### Kindly notification

Please read the user manual and warranty card carefully before the use.  
For any service, Please priorly contact local seller or contact us via Email: cs@creality.com for support.

See [www.creality.com/after-service-policy/](http://www.creality.com/after-service-policy/) for specific warranty information about your product and procedures to act on a warranty claim.

**退/换货政策** ←**一、满足退/换货时间**

- 1、电商平台购买支持7天无理由退货，即产品签收时间起算，满168小时为7天。
- 2、因机器品质问题，非人为损坏的情况，签收后15天内可申请退换货。
- 3、如另通过合同购买且有签订退换货时间的以合同为准，运费标准以售后服务卡为准。
- 二、产品外观要求无损伤、划痕、污迹、裂纹、变形等；随机配件、工具、赠品、包装等要求齐全完好。经我司售后检测判定，如退/换货收到的产品外观损坏，配件不全或因未按照原包装打包邮寄导致的问题，客户需承担相应的费用，具体损耗及费用需寄回后经专业售后人员进行检测核算。**
- 三、非质量问题退/换货，如使用了耗材，客户需承担耗材的费用；由于包装纸盒或打包木架返厂后是无法二次使用的，因此客户需承担包装费；具体损耗及费用需寄回后经专业售后人员进行检测核算。**
- 四、因不喜欢、不想要、拍错、使用不当、不满意产品等原因造成的退换货，退回运费需客户自行承担。**
- 五、换货时，客户需先将机器寄回，公司收到机器后会及时安排发货。**

**退/换货运费标准** ←

| 类型 | 分类    | 寄回运费 | 出库运费 |
|----|-------|------|------|
| 换货 | 非品质问题 | 客户承担 | 公司承担 |
|    | 品质问题  | 公司承担 | 公司承担 |
| 退货 | 非品质问题 | 客户承担 | /    |
|    | 品质问题  | 公司承担 | /    |

**保修政策** ←**一、质保期**

- 1、整机保修一年。
- 2、赠品（护目镜、扳手、TF卡&读卡器、硅胶防撞颗粒、单面防滑胶、牛皮纸、椴木板等）无保质期。收到产品后，请核对说明书零部件清单，如赠品有缺少或品质问题，7天内可联系售后申请补发或更换。
- 二、质保期内保修：经我司售后检测判定为品质问题，公司提供免费维修服务；如果是人为导致的非品质问题，客户需承担相应更换的配件费用，无需承担维修费。**
- 三、质保期外维修：由客户承担维修过程中产生的人工费、配件费、包装费、来回运费等所有费用。**

**返厂维修运费标准** ←

| 类型    | 返厂时间  | 返厂运费 | 出库运费 |
|-------|-------|------|------|
| 非品质问题 | 三个月以内 | 客户承担 | 公司承担 |
|       | 三个月以上 | 客户承担 | 客户承担 |
| 品质问题  | 一个月以内 | 公司承担 | 公司承担 |
|       | 一至三个月 | 客户承担 | 公司承担 |
|       | 三个月以上 | 客户承担 | 客户承担 |

## 下列情况不列入质保范围 ←

- 1、无法提供有效的机器制造编码、购买凭证和保修卡，或信息被涂改、字迹模糊、无法辨认等。
- 2、正常的使用磨损而造成的部件损坏。
- 3、未按说明书指导，不正确安装、使用及操作，或私自对机器进行改装而造成机器故障或损坏。
- 4、在非机器规定的工作环境下使用而造成机器故障或损坏。
- 5、由于滥用（超出工作负荷等）或维护不当（受潮、进液、浸泡、发霉等）造成机器故障或损坏。
- 6、由于不可抗因素（如：火灾、地震、雷击、水灾等）造成机器故障或损坏。
- 7、由于使用其他品牌部件或低质量耗材造成的设备故障或损坏。
- 8、未经官方授权的服务点维修过的机器。

## 技术支持 ←

凡购买创想三维激光雕刻机，均可享受（除产品本身之外）终生技术支持，如超越产品本身的技术问题恕不提供。本产品在存储卡中有相关使用资料，如在使用过程中遇到技术问题，请联系售后客服帮您解决。

## 温馨提示 ←

- 1、使用机器前请仔细阅读说明书和售后服务卡。
- 2、质保期内维修过的机器后仍享有剩余质保服务。
- 3、退/换货及返厂维修需按原包装寄回机器，以免快递过程中产生其他问题，建议妥善保存好产品原包装。
- 4、申请质保服务时，请提供产品制造编码、购买凭证、订单号、保修卡、发票等信息。如未提供，公司有权拒绝提供质保服务。
- 5、服务时间：周一至周五，8:30-20:30；周六至周日，8:30-18:00（法定节假日除外）。

热线：400-613-3882，邮箱：cs@creality.com。

# WARRANTY

Before returning the product and filling in a warranty, please contact after-sale person for going through after-sale formality. And attach this waranty card along with the returned machine.

Repair

Change

Return

Name: \_\_\_\_\_ Telephone: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Serial Number: \_\_\_\_\_ Order Number: \_\_\_\_\_

Channel: Platform  Offline

Date of purchase Day \_\_\_\_\_ Mon. \_\_\_\_\_ Year \_\_\_\_\_

Malfunction And Damage Depiction Or Return And Change Reasons\\ Suggestions:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Repair Records:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

↓  
Note: Client need filling in basic infor. and return reasons. Repair records shall retain for technicians.

# 产品保修卡



产品寄回前请先联系售后专员，为正常进行售后处理，请务必填写此卡，并随机器寄回。

返修

换货

退货

客户名称: \_\_\_\_\_ 联系电话: \_\_\_\_\_

故障描述或退、换货原因和建议:

收件地址: \_\_\_\_\_  
\_\_\_\_\_

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机器制造编码: \_\_\_\_\_ 订单编号: \_\_\_\_\_

维修情况记录:

购买渠道: 电商平台  线下

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购买日期: \_\_\_\_\_ 年 \_\_\_\_\_ 月 \_\_\_\_\_ 日



温馨提示: 基本信息及返厂原因为客户必填项, 维修情况记录部分为维修人员填写项。





Due to the differences between different machine models, the physical objects and the final images can differ. The final explanation rights shall be reserved by Shenzhen Creality 3D Technology Co., Ltd.

因每款机型不同,实物与图可能有所差异,请以实物为准,最终解释归深圳市创想三维科技有限公司所有。



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