

PRODUCT MANUAL

TS5 Laser Cutter And Engraver



CE FC RoHS  

Language:EN

Sprache:DE

Note: The picture is for reference only. The actual product is the standard.

Dear Customer:

To ensure a smooth assembly and usage experience, we have prepared this assembly and user guide manual. Please read the following content carefully and follow the instructions to ensure safety and convenience when using the product. If you encounter any issues during use, you can scan the QR code, access our company's website, and read USB drive information to access relevant instructional videos. In case of machine malfunction, please refer to the names of the corresponding parts inside the machine and inform us of the issue and the machine's condition via the after-sales email provided on this page.



After-sales Email: service@twotrees3d.com
Inquiry Email: info@twotrees3d.com

Wikipedia: wiki.twotrees3d.com

Webpage for information



Visit www.twotrees3d.com
find the corresponding model information
and equipment use information tutorials

TF card information



Find the USB drive in the tool kit

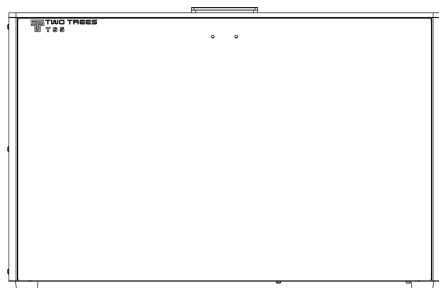


TABLE OF CONTENTS

1. Part list	01
2. Unboxing Operation	02
3. Machine Assembly	03
4. Machine and Interface Definitions	05
5. Device Power-On and Software Interface Guide	06
6. Software Parameter Settings	09
7. Operation Guide	11
8. FAQ	15
9. Precautions	16
10. Product Parameters	18

1. Part list

EN



Entire Machine X1



M3*6X4



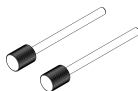
M3*8X2



Hand-tightened screw X1



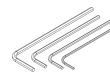
Fixed Focus X1



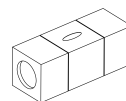
Chuck Wrench X2



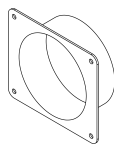
Internal Bracing X3



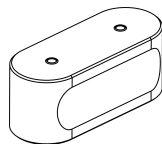
Hex Wrench X4



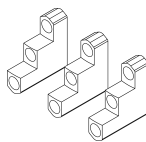
Spirit Level X1



Exhaust Pipe Fitting X1



Handle X1



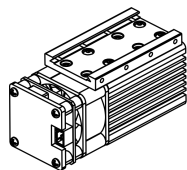
Step Chuck Jaw X3



Pipe Clamp X1



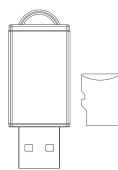
Vent Pipe X1



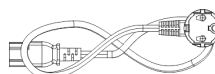
Laser Module X1



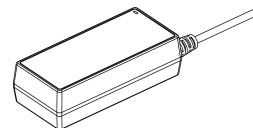
USB Cable X1



Memory Card X1



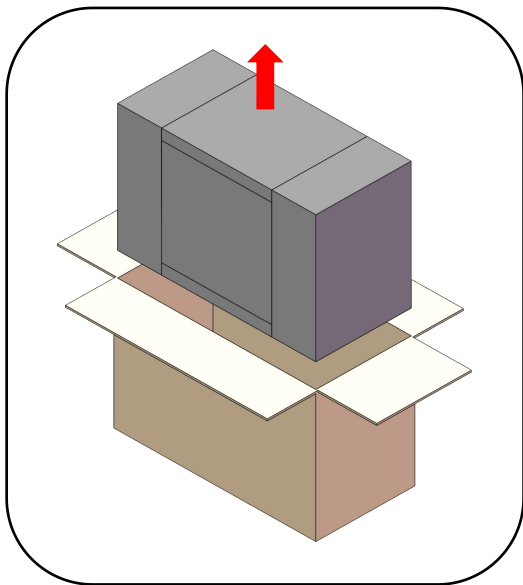
Power Cord X1



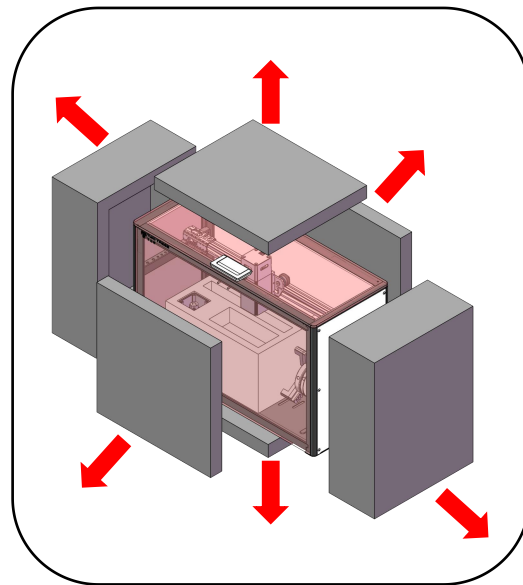
Adapter X1

2. Unboxing Operation

Remove the packaging box after unboxing.



Remove the foam protection and take out the included accessories from the case.



Eco-friendly reminder: The foam is recyclable, please sort and store it properly.

3. Machine Assembly

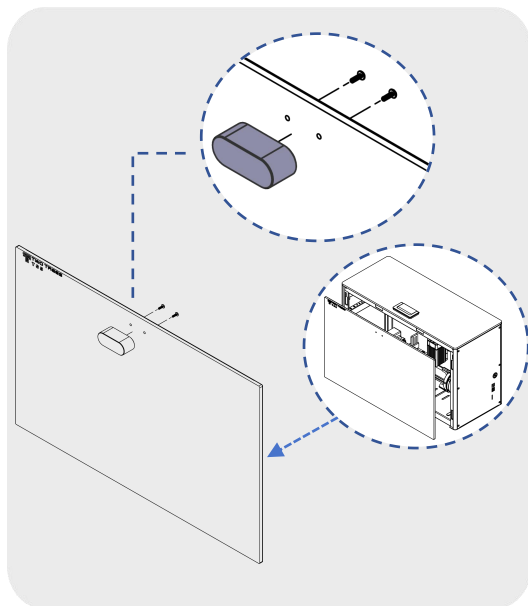
EN

3.1 Front Door Assembly & Laser Module

Handle X1

M3*8 X2

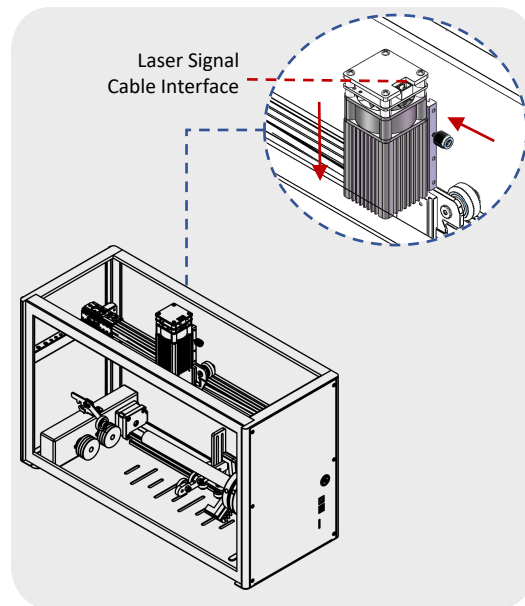
Use M3*8 screws to secure handle from back of front door.



Laser Module X1

Hand-tightened screw X1

Slide laser module into carriage along groove, tighten with hand screws, then connect laser signal cable.

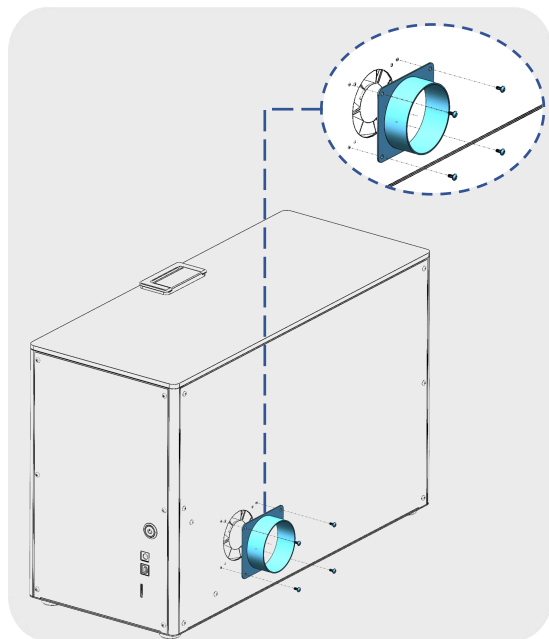


3.2 Smoke Exhaust Assembly Installation

Exhaust Pipe Fitting X1

M3*6 X4

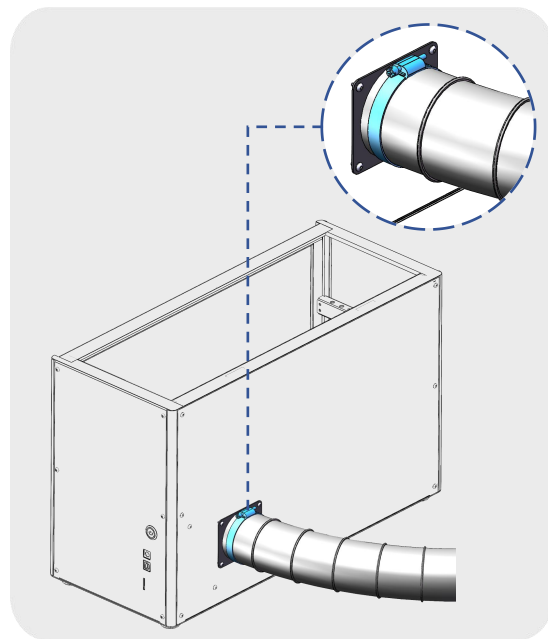
Use M3*6 screws to pass through the exhaust pipe interface mounting holes and connect to the machine, then tighten.



Vent Pipe X1

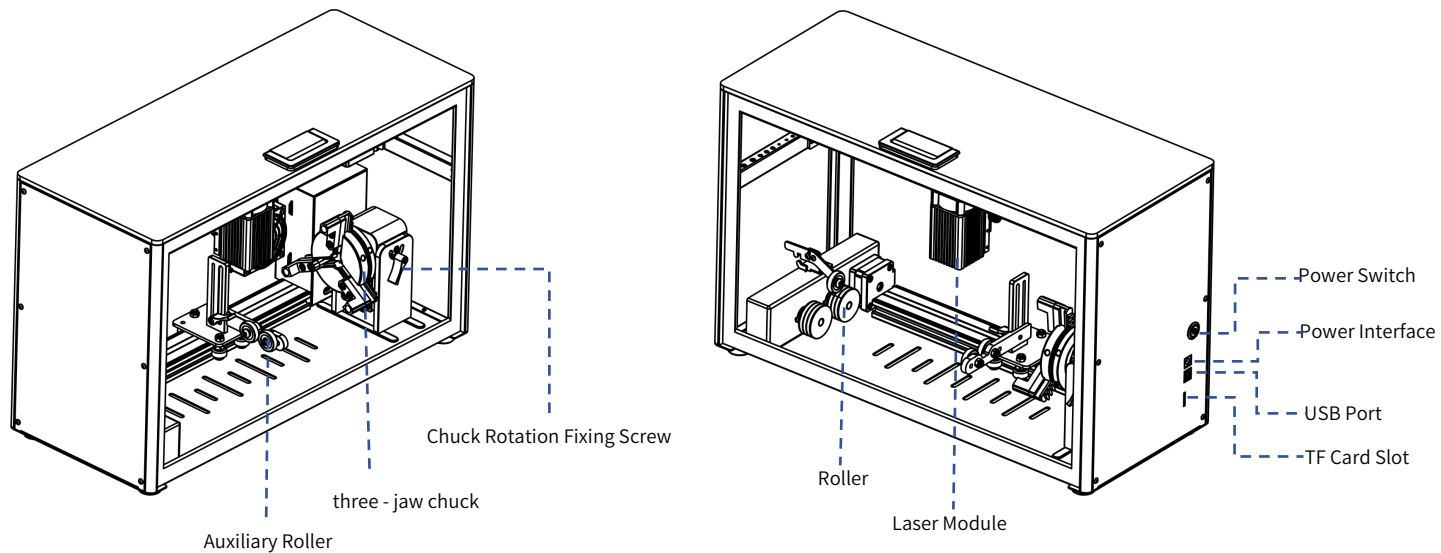
Pipe Clamp X1

First, slip the hose clamp onto the exhaust hose, then insert the exhaust hose into the exhaust interface, and finally tighten the clamp with a screwdriver.



4. Machine and Interface Definitions

EN



5. Device Power-On and Software Interface Guide

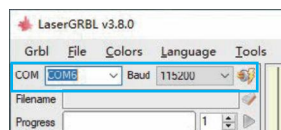
Insert the power DC connector into the machine's power interface, turn on the power switch, and connect the machine to the computer using a USB cable.

Connect to Computer

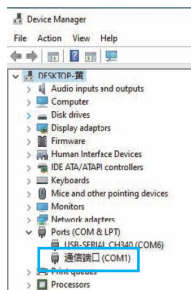
1. Connect the machine to a computer with LaserGRBL software installed using a USB data cable.
2. Plug in the power.
3. Open LaserGRBL on the computer.
4. Select the specific port number and baud rate - 115200 (A.01)
5. Click the lightning bolt icon. When the icon turns red to an 'X' and the direction icon lights up, it indicates a successful connection (A.02). Generally, you do not need to manually select the COM port unless there are multiple serial devices connected to the computer. In that case, you can find the machine's port in the Device Manager of the Windows system (A.03). An easier method is to try each displayed port number one by one.



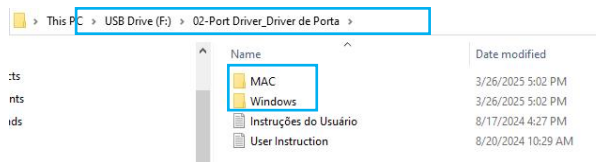
Figure A.01



A.02



A.03



A.04

Note: If the correct port cannot be found, you may need to follow these steps
Method 1: Click on 'Tools' in the menu to install the CH340 driver (this feature may not be available in some software versions).

Method 2: Copy the 'CH340SER' file from the TF card to your computer and install it (A.04).
When selecting the driver file, please choose and install based on your computer's operating system.

GRBL Introduction

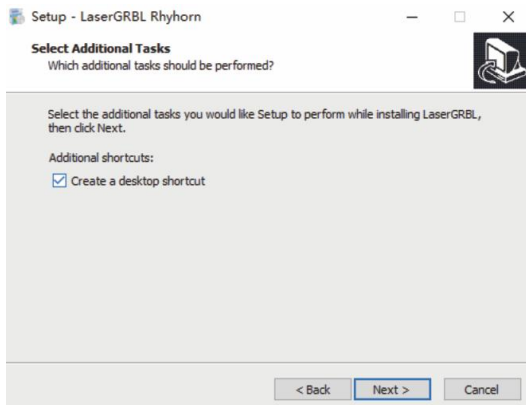
1. Software Download

LaserGRBL is currently one of the most popular DIY laser engraving software, available for download on the LaserGRBL website at <http://lasergrbl.com/download> (installation packages can also be downloaded from the manufacturer-provided TF card or USB drive). Introduction: LaserGRBL is user-friendly. However, LaserGRBL only supports Windows systems (Win XP/7/8/10). For Mac users, you can also opt for LightBurn, which is also an impressive engraving software, but it is not free. This software also supports Windows systems.

Note: The engraving machine must remain connected to the computer during the engraving process, and the engraving software should not be closed.

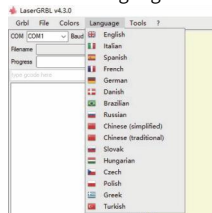
2. Software Installation

Double-click the software installer to begin the installation, then click 'Next' until the installation is complete.



3. Language

Click on 'Language' at the top of the menu and select the language you need.



4. Load Engraving File

Click on 'File' and then 'Open File' in sequence, as shown in the figure, and then select the graphic you want to engrave. LaserGRBL supports files in formats such as NC, BMP, JPG, PNG, etc.

