



Quick Start Guide

Reno45 & Reno65 Series

For helpful tips and instructional videos, visit our Help Center or join our official laser group!

If you encounter any issues with your engraver, please contact us. Our support team will respond promptly to resolve your concerns.

Official Website: monportlaser.com

Technical Support: support@monportlaser.com

Support Tel:

+1 (332) 269-8209 | 09:00–18:00 PST

+1 (917) 673-8904 | 18:00–02:00 PST

**Read Carefully Before Use
Keep for Future Reference**

1. Preparation

1.1 Unpacking

Open the packaging and take out the machine and accessories. Check that all items are included.

Item	Qty	Notes
Reno CO ₂ Laser Engraver	1	
Honeycomb Workbed	1	
Aluminum Blade Platform	—	9 Pieces (Reno45) 13 Pieces (Reno65)
Water Pump	1	15W (Reno45) 75W (Reno65)
Exhaust Pipe	1	2 Meters (6.5 ft)
Pipe Clamps	2	
USB Cable	1	2 Meters (6.5 ft)
Power Cord	1	1.5 Meters (5 ft)
USB Flash Drive	1	
Focus Strip	1	
Hex T-Handle Wrench	1	
Quick Start	1	
Goggles	1	
Roll of Dimming Paper	2	Used for Optical Path Adjustment
Wrench Set	1	

1.2 Installation

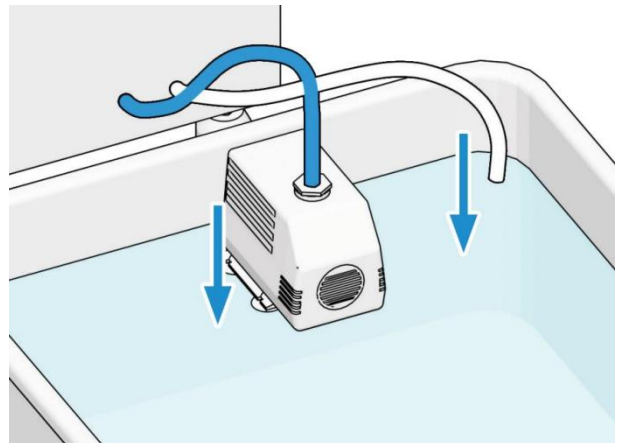
The **Reno45 & Reno65 Series Laser Engravers** feature a compact and integrated design, making installation simple and straightforward.

Before you begin, prepare a clean water bucket or tank. Place the machine on a stable surface, such as a sturdy desktop or the floor.

There are five main steps to get started:

1. Connect the Water Cooling System

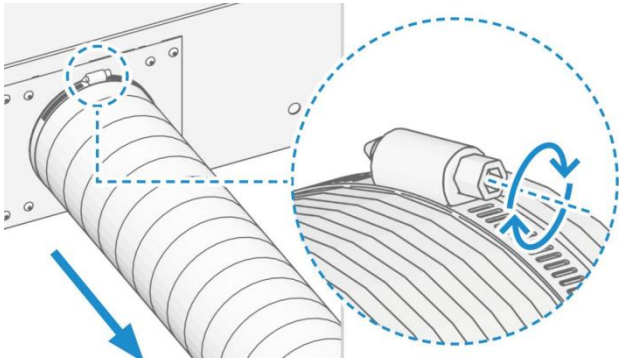
- Connect the preinstalled water inlet hose on your Reno engraver to the water pump, and fully submerge the pump in the water tank.
- Place the outlet (return) hose into the tank so that the returning water flows smoothly without splashing.
- Plug the pump into the power outlet on the back of the machine.



Use purified or distilled water only. Keep the water temperature below 70 °F (21 °C).

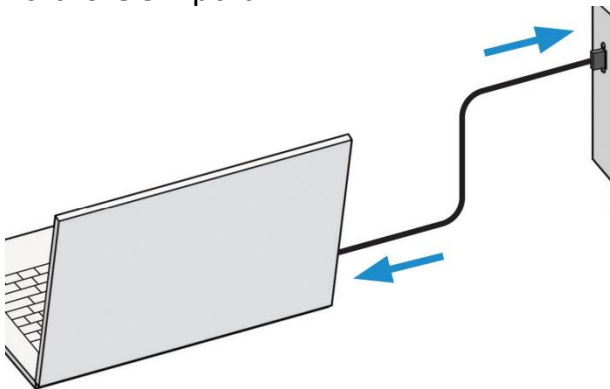
2. Install the Exhaust Pipe

- Attach the exhaust pipe fixture to the outlet port and secure it.
- Slide the exhaust pipe over the fixture, then fasten the clamp rings.
- Route the other end of the pipe outdoors or into a proper ventilation system.



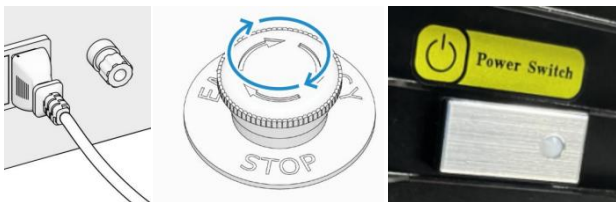
3. Connect to the Computer

Use the provided USB cable to connect the Reno engraver to your computer via the USB port.



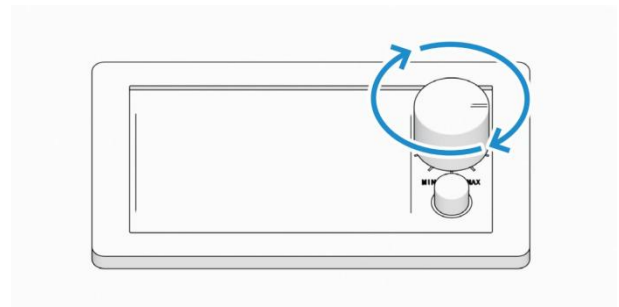
4. Power On the Machine

- Plug in the power cord.
- Turn the Emergency Stop button clockwise to release it.
- Switch on the Power Switch to power up the engraver.



5. Adjust the Ammeter

Turn the ammeter adjustment knob clockwise to its maximum setting.



Notes:

- For first-time installation, do not operate the machine immediately after powering it on.
- Wait 1–2 minutes to allow the water cooling system to fully fill the laser tube.
- Check that the laser tube is completely filled with water before operation.

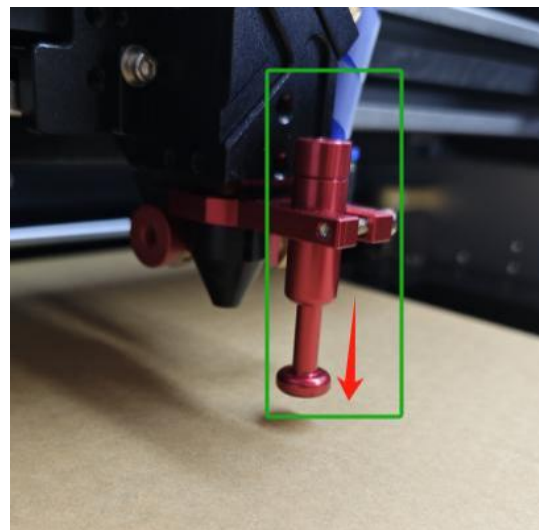
1.3 Instructions for Assisted Focusing

The assisted focusing process is straightforward. Follow these three main steps:

1. Prepare the Material

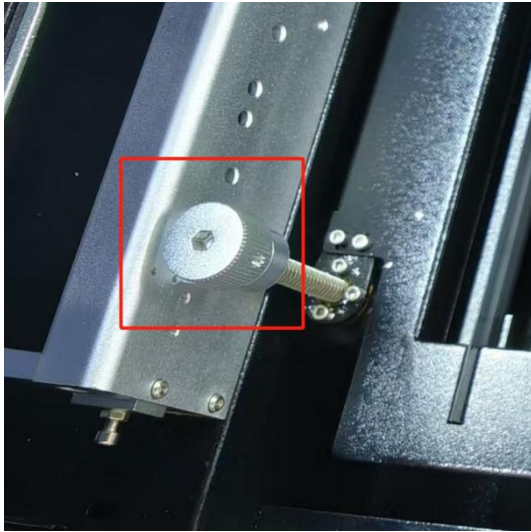
- Place the material on the honeycomb workbed or aluminum blade platform.
- Move the laser head above the material.

- It is recommended to perform this step while the machine is powered off.*
- Lower the magnetic suction head onto the material.



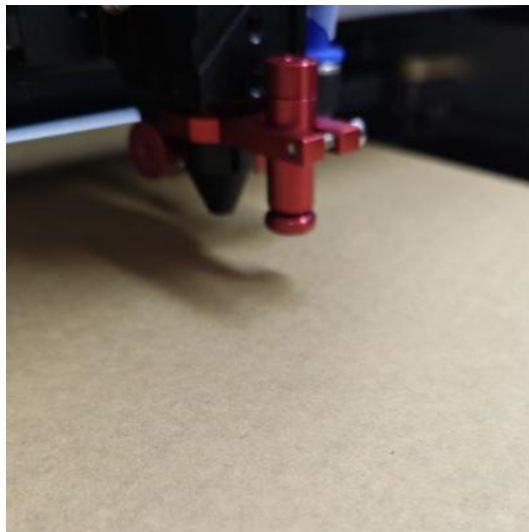
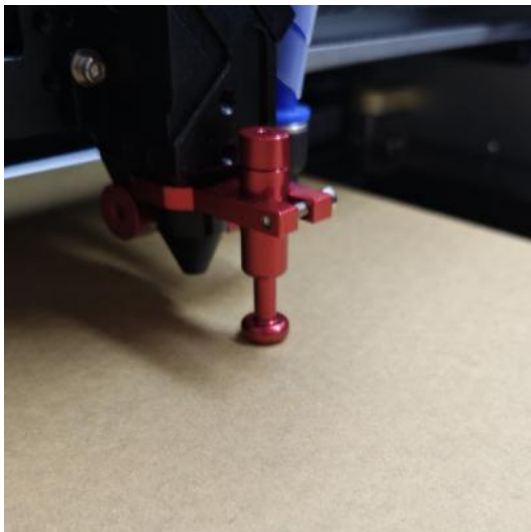
2. Adjust the Worktable

Rotate the knob on the left to raise the worktable. You can turn it directly by hand or use the provided T-Key Allen Wrench.



3. Fine-Tune the Focusing

- Adjust the worktable height while observing the laser head.
- Continue raising the worktable until the material lightly contacts the magnetic suction head.
- Keep adjusting upward until the magnetic suction head rebounds slightly, indicating that proper focusing has been achieved.



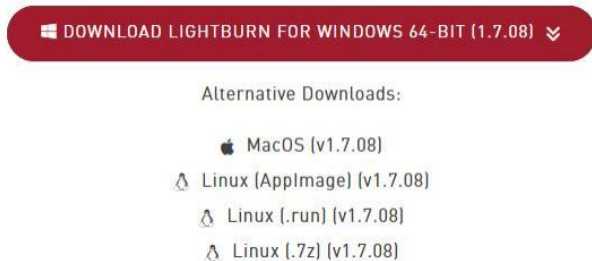
Tip: A little patience is required during the first few attempts. Once familiar with the process, assisted focusing becomes quick and convenient.

2. First Time Using LightBurn with Reno

2.1 Download LightBurn

Go to the LightBurn official website and download the latest version:

<https://lightburnsoftware.com/pages/download-trial>

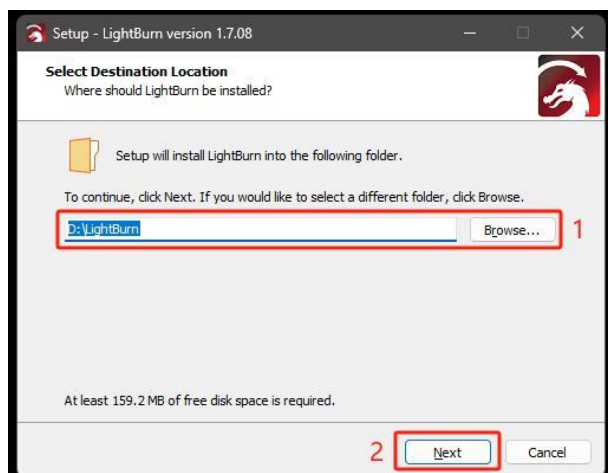


If you are using LightBurn for the first time, you can enjoy a 30-day free trial.

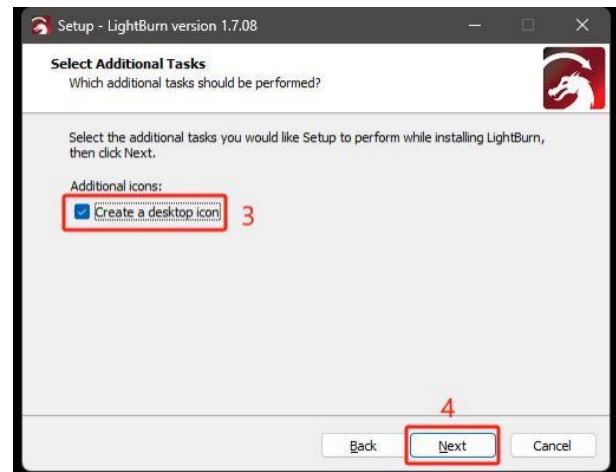
- For **Reno45 & Reno65** models, please purchase the LightBurn Core Version.
- For **Reno45 Pro / Reno45 SE / Reno65 Pro / Reno65 SE** models, please purchase the LightBurn Pro Version.

2.2 Install Lightburn

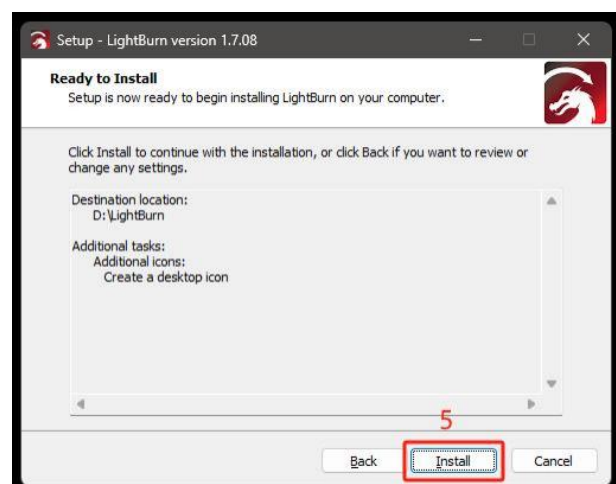
1. Open the LightBurn installation program and select the installation path (the default path is usually fine). Click "Next".



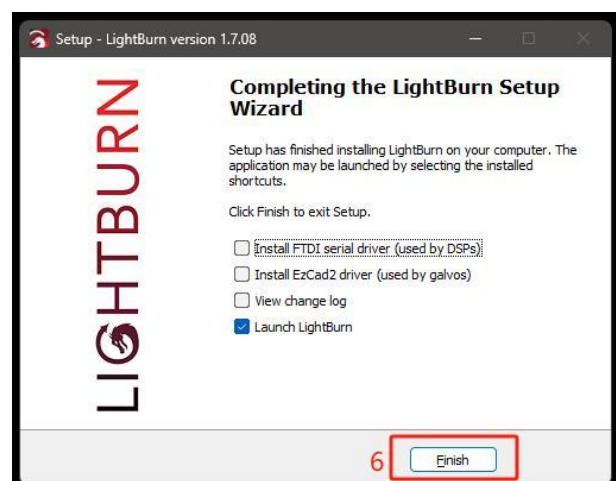
2. Choose whether to create a desktop shortcut. Check "Create a desktop icon" if desired, then click "Next".



3. Confirm the installation settings and click "Install".



4. When prompted, click Install Ezcad2 driver (used by galvos), then click "Finish" to complete the installation.

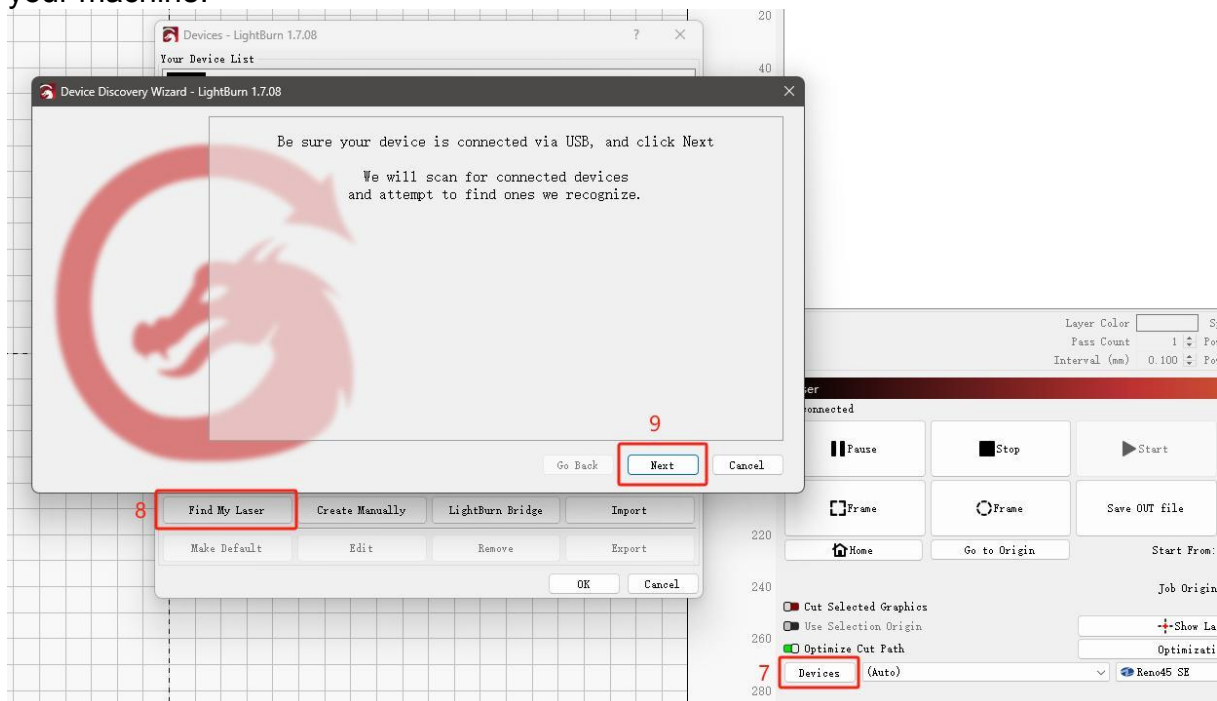


Notes:

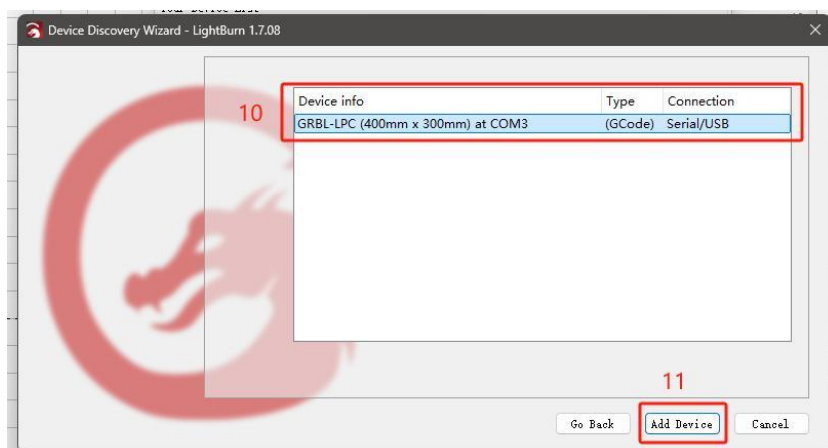
- During installation, pop-up windows may appear asking you to install the driver or runtime library. Just follow the prompts to install it. This is due to the lack of the software operating environment on the computer.
- If the installation program fails to open or upgrade error occurs, it may be due to: Software incompatibility with your computer; or a mismatch between the software version and your operating system. In this case, visit the LightBurn official website to download a version compatible with your computer.

2.3 Connect Reno with LightBurn

1. Power on your **Reno** and connect the data cable.
2. Open LightBurn. A 30-day trial pop-up window will appear. Click “OK” to continue. A software instruction pop-up will appear. Click “OK” to proceed.
3. When the “Devices” window appears, click “Find My Laser”, then “Next” to search for your machine.

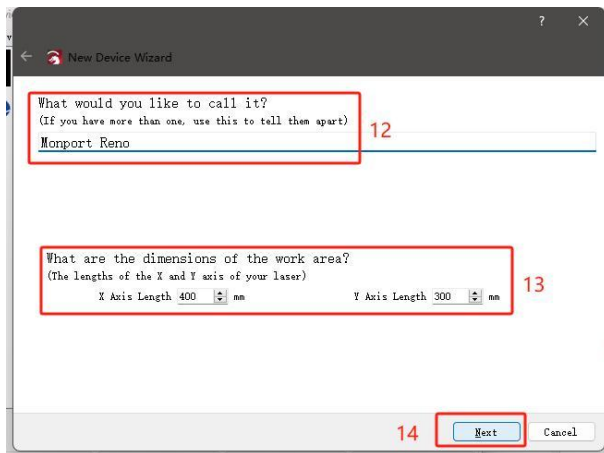


4. You can see your **Reno** in the device list. Select it and click “Add Device” to add it to LightBurn.



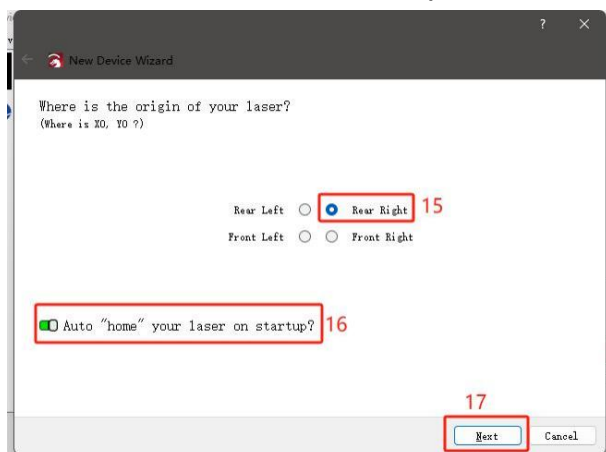
5. Set Device Information

- Enter the device setup interface.
- You can assign a custom name to your machine.
- Set the engraving area according to your model:
Reno45: 400 × 300 mm
Reno65: 600 × 400 mm
- After the settings are complete, click “Next” to continue. The grid displayed in the software will represent the working area of your machine.

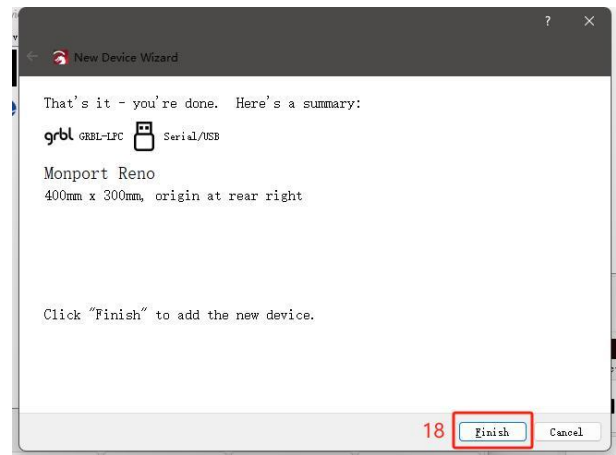


6. Configure Origin & Reset Options

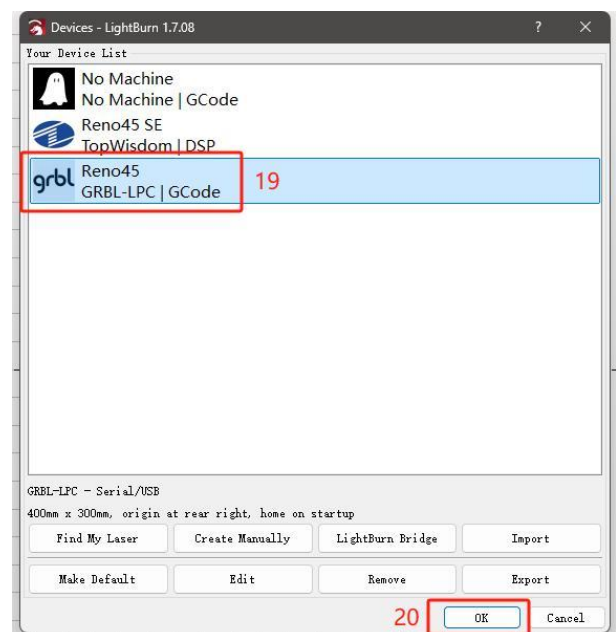
- Choose “Rear Right” as the device origin.
- Enable automatic homing after successful connection.
- Once done, click “Next” to proceed.



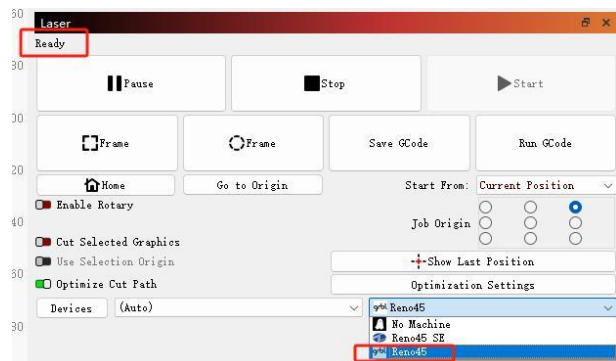
- When the device is successfully added, click “Finish”.



- Select your engraving machine and click “OK” to enter the software.

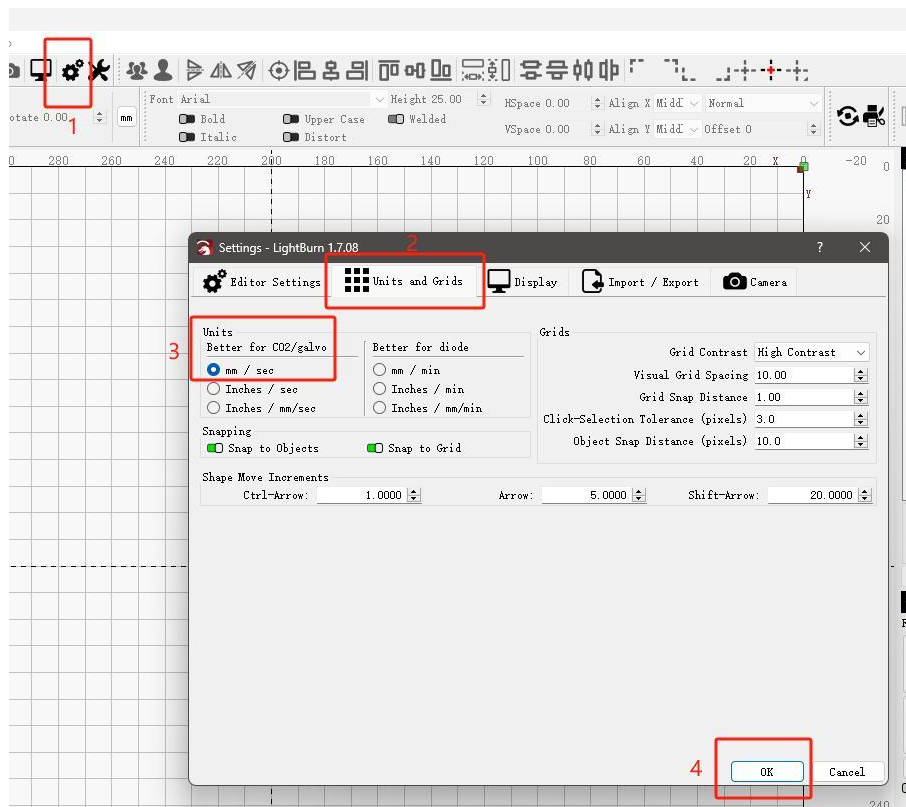


- When the status shows “Ready”, the connection is successful and you can start creating your project.

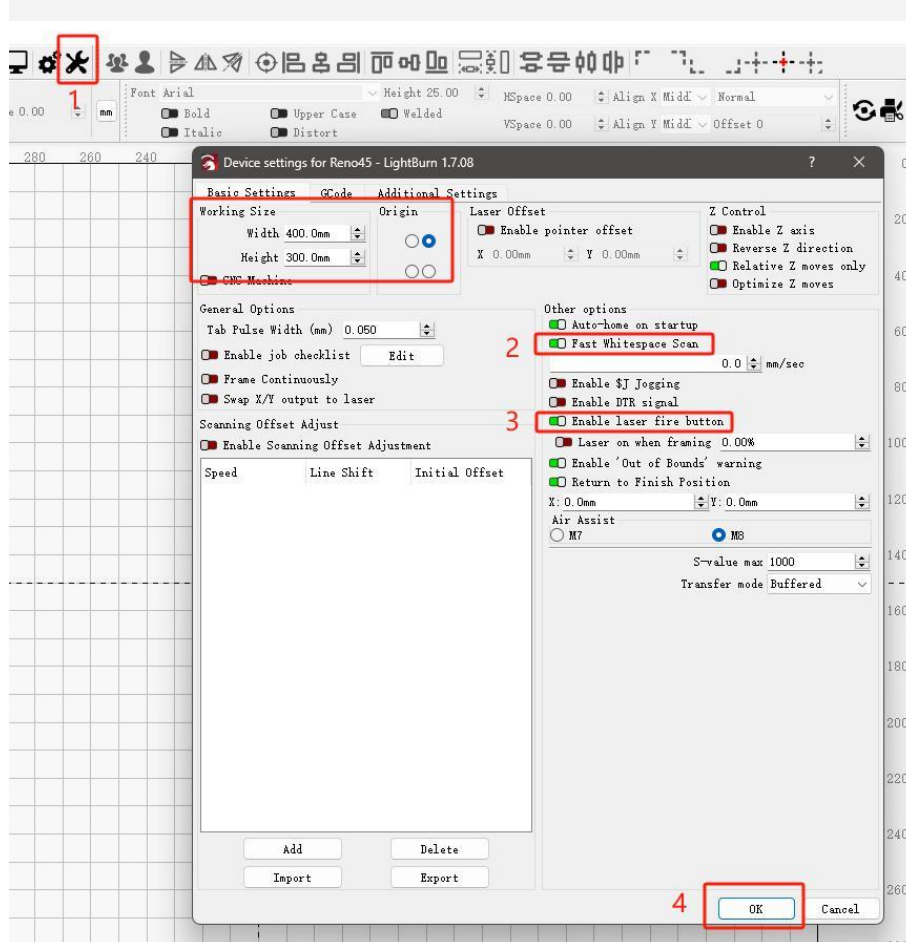


2.4 Recommended LightBurn Settings

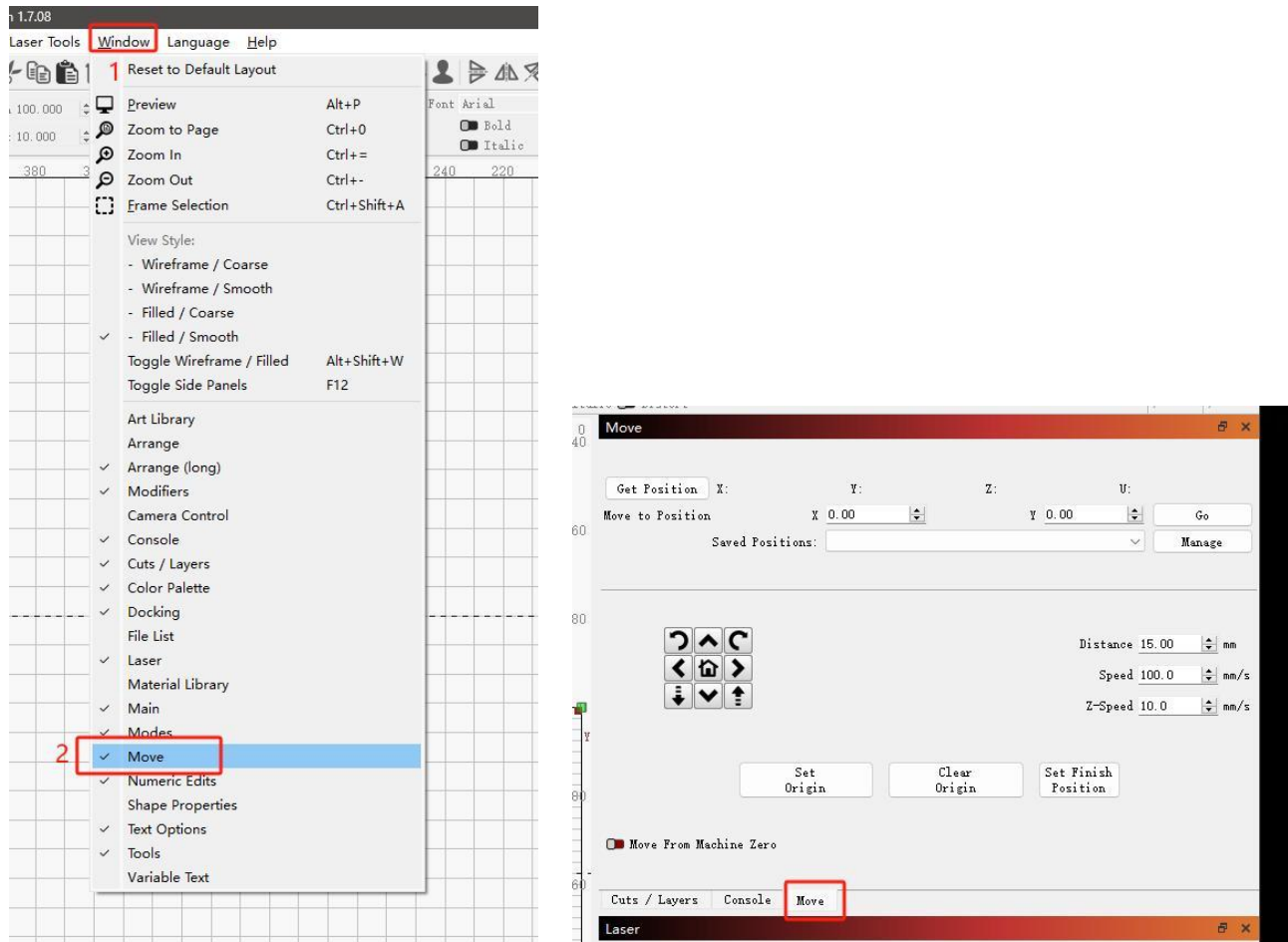
1. Set the unit to mm/s for better compatibility and precision.



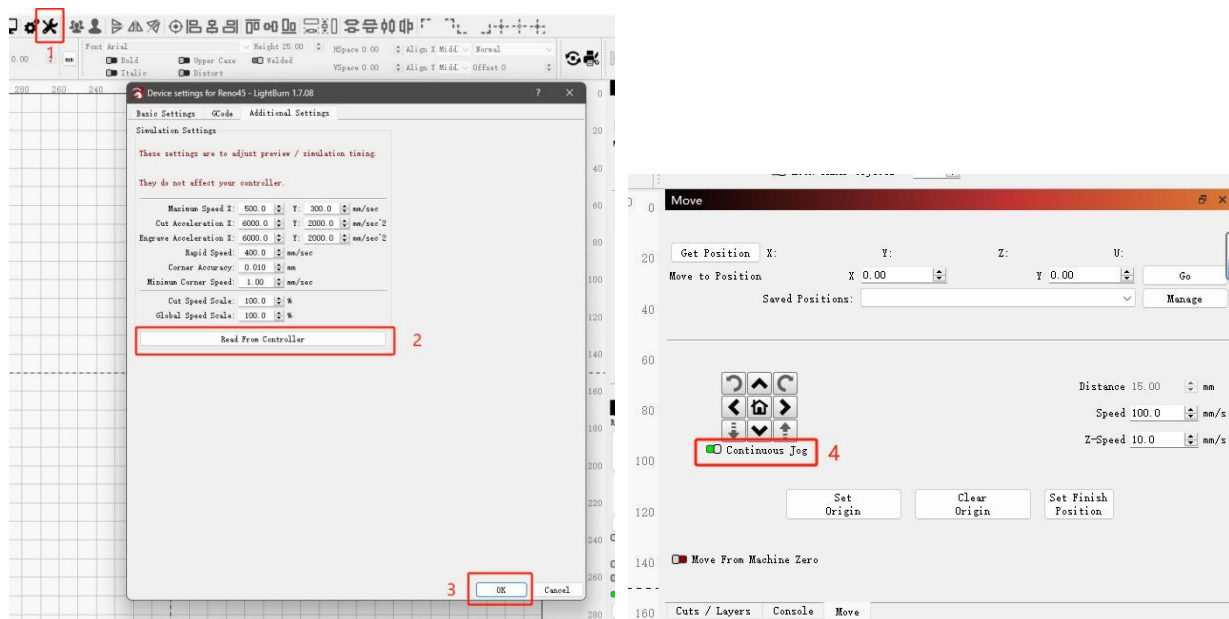
2. Enable the following options: Fast Whitespace Scan & Enable Laser Fire Button



3. Open the “Move” window to directly control the laser head movement within LightBurn.



4. Click “Read From Controller”, then enable “Continuous Jog” to allow continuous motion control.



Note:

For detailed software tutorials, please refer to the official LightBurn resources:

Video Tutorials: <https://lightburnsoftware.com/pages/tutorials>

Documentation: <https://docs.lightburnsoftware.com/latest/>

3. First Time Using LaserGRBL to Connect to Reno

3.1 Install the Driver

1. Turn on your machine and connect it to the computer using the provided USB cable.
2. Insert the provided USB flash drive into your computer. The flash drive contains the driver installation program and instructions.
3. Copy the contents of the USB drive to your computer's hard drive.
4. Select and install the corresponding driver according to your computer system.

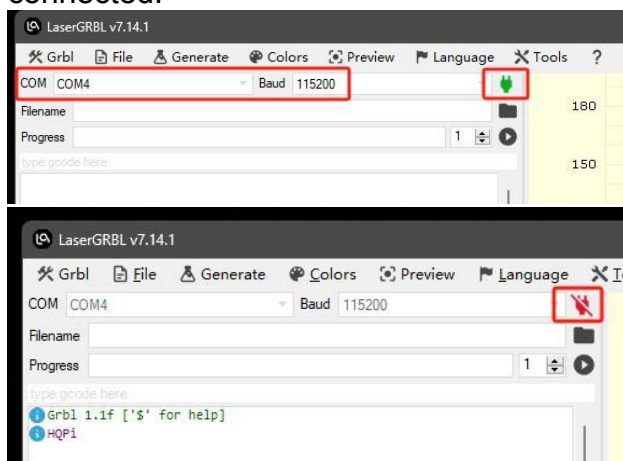


3.2 Install LaserGRBL

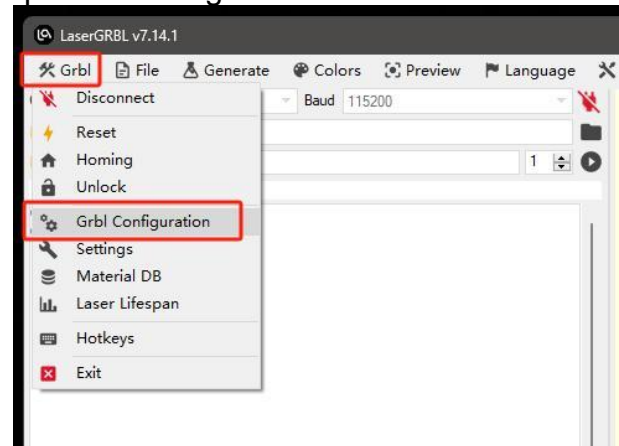
1. Extract and install LaserGRBL from the USB drive.
2. To check for the latest version, visit the official website: <https://lasergrbl.com>

3.3 Connect Reno and Configure LaserGRBL

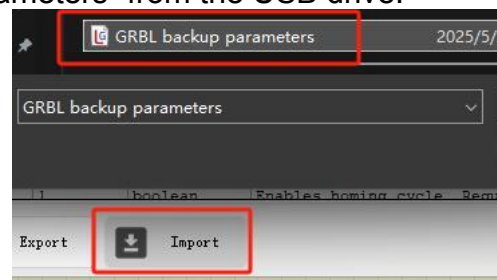
1. Open the LaserGRBL software on your computer.
2. Choose the COM port and set the Baud rate to 115200.
3. Click "Connect". The status at the bottom right corner will change from Disconnected to Idle when the engraver is successfully connected.



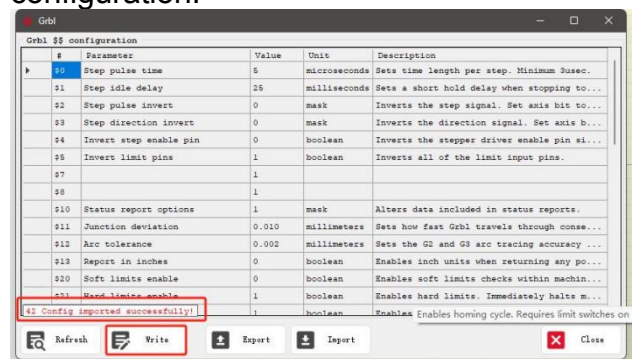
4. Click "Grbl" → "Grbl Configuration" to open the configuration menu.



5. Click "Import", then select "GRBL backup parameters" from the USB drive.



6. When prompted "Config imported successfully!", click "Write" to complete the configuration.



For more tutorials, visit the official LaserGRBL website:
<https://lasergrbl.com/usage/>

3.4 Attention

- The motherboard defaults to parameters that match LightBurn.
- If you have previously used LaserGRBL and restored its backup parameters, you must rewrite the LightBurn backup parameters before using LightBurn again.
- Otherwise, interference may occur.

To write the backup parameters for LightBurn:

Edit → Machine Settings → Load from File → LightBurn backup parameters → Write → OK

