INTERNATIONAL
PERSONALIZATION
EXPO

February 24–27, 2026 ✦ Horseshoe Las Vegas



Mastering LightBurn: 303
Advanced Tips to Elevate your Laser Projects

Robert Kofoed
Owner of Computer Creations/z

Introduction

- Robert & Hope Kofoed, Owners of Computer Creations/z since 1994
- Based in Northern Nevada (Fallon)
- Our business offering the following services:
  - 100% Custom laser-related products. Custom only, we don’t make things to sell!
  - Personalized training on CO2 and Galvo laser operation and project setup.
  - Provides Individualized instruction on LightBurn software, from basic to advanced levels.
  - Successfully delivered over 600 one-on-one LightBurn training sessions.
- Serves as Brand Ambassador for Thunder Laser USA
- Serves as Brand Ambassador for Haotian Laser
- Serves as Brand Ambassador for Lens Digital (PiBurn)



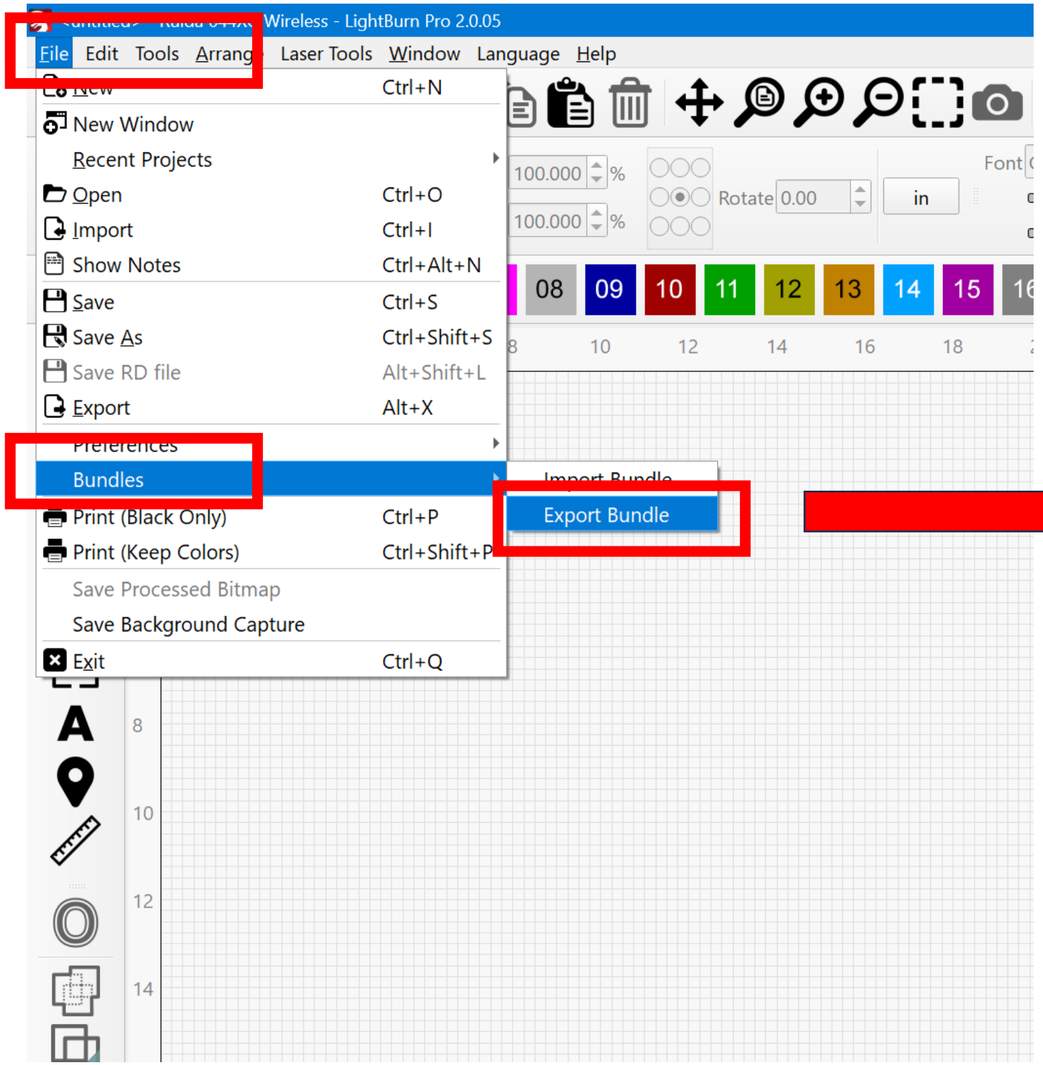
Learning Objective for this session

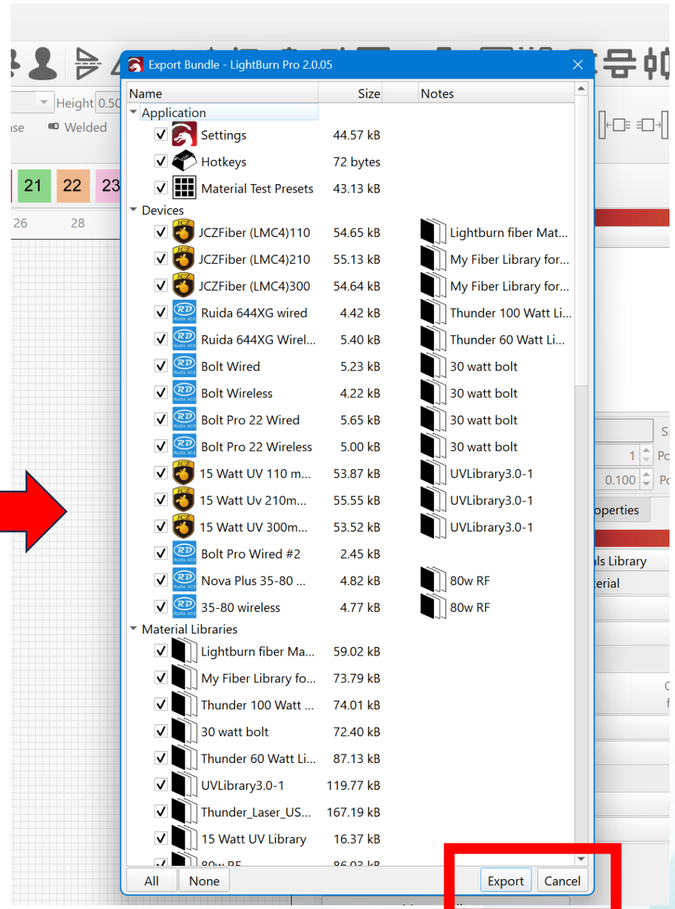
- Share practical LightBurn tips with clear, step-by-step instructions so you can apply these time-saving techniques on your own.
- Provide you with Real Life examples on these techniques.
- Provide Information to grow your skills as a designer and Laser operator.
- If your LightBurn question isn’t answered during this session, I’ll be nearby in the general area to offer further help!
- I will be taking questions after the presentation.




ARE YOU
READY TO LEARN
AND HAVE SOME FUN!
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A Quick and Easy way to back up Files!

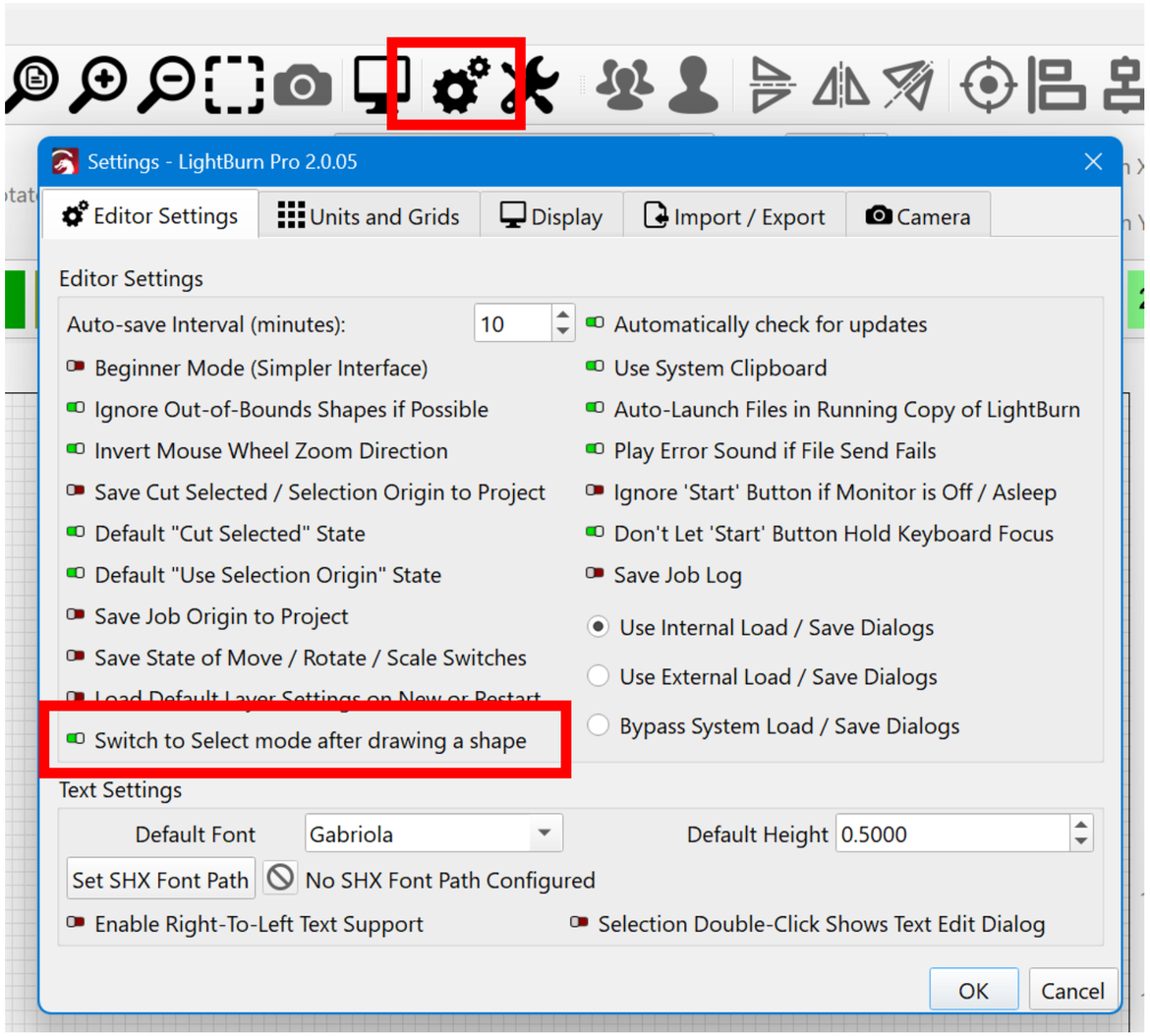




Regularly perform this process on a set schedule to ensure you have backups if your computer's hard drive fails.



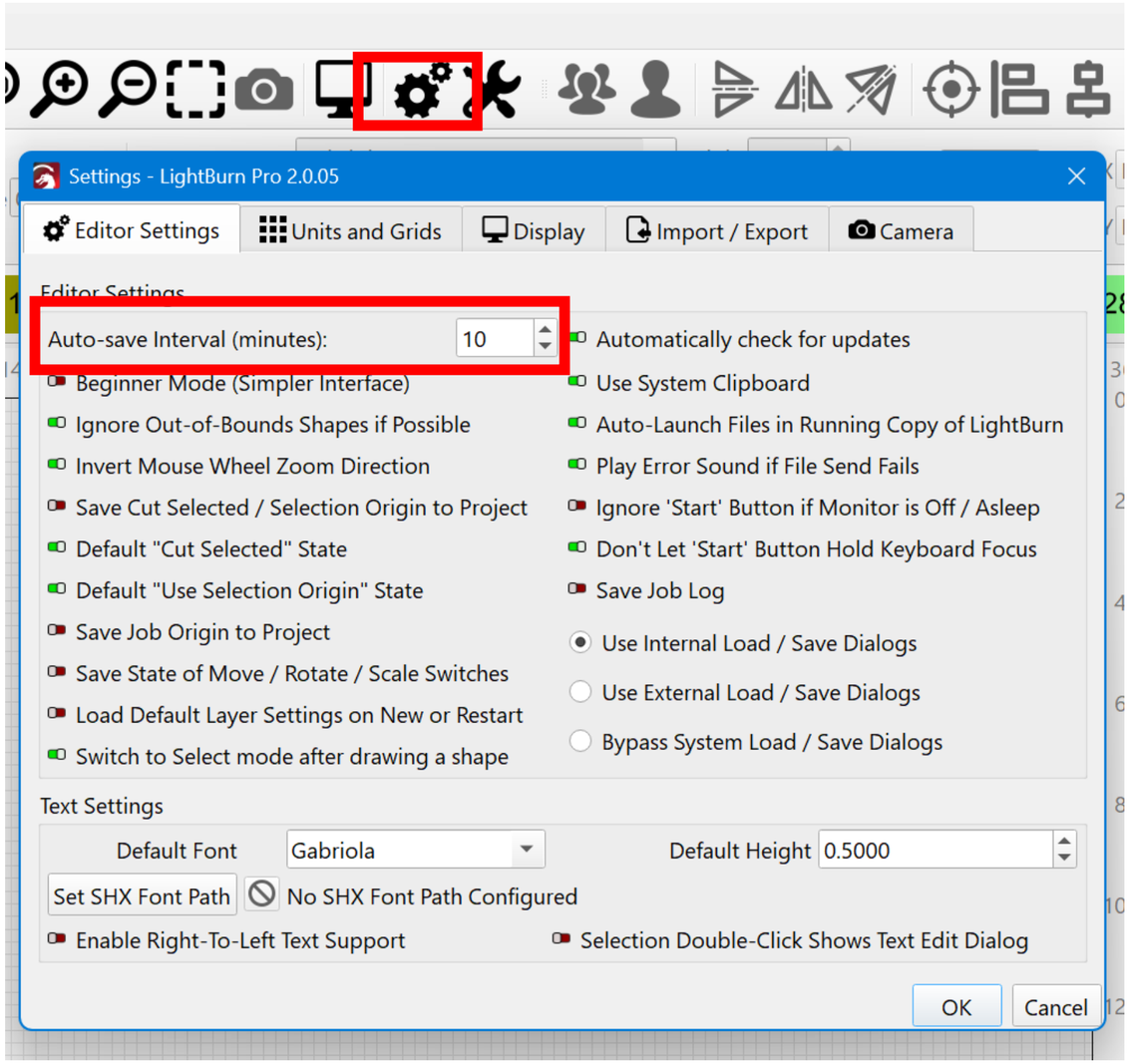
Automatically switch to select mode!



If you ever get annoyed because you wanted to edit a shape but ended up creating a new one by mistake, this advice is here to assist you.

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Peace of mind thanks to Autosave!



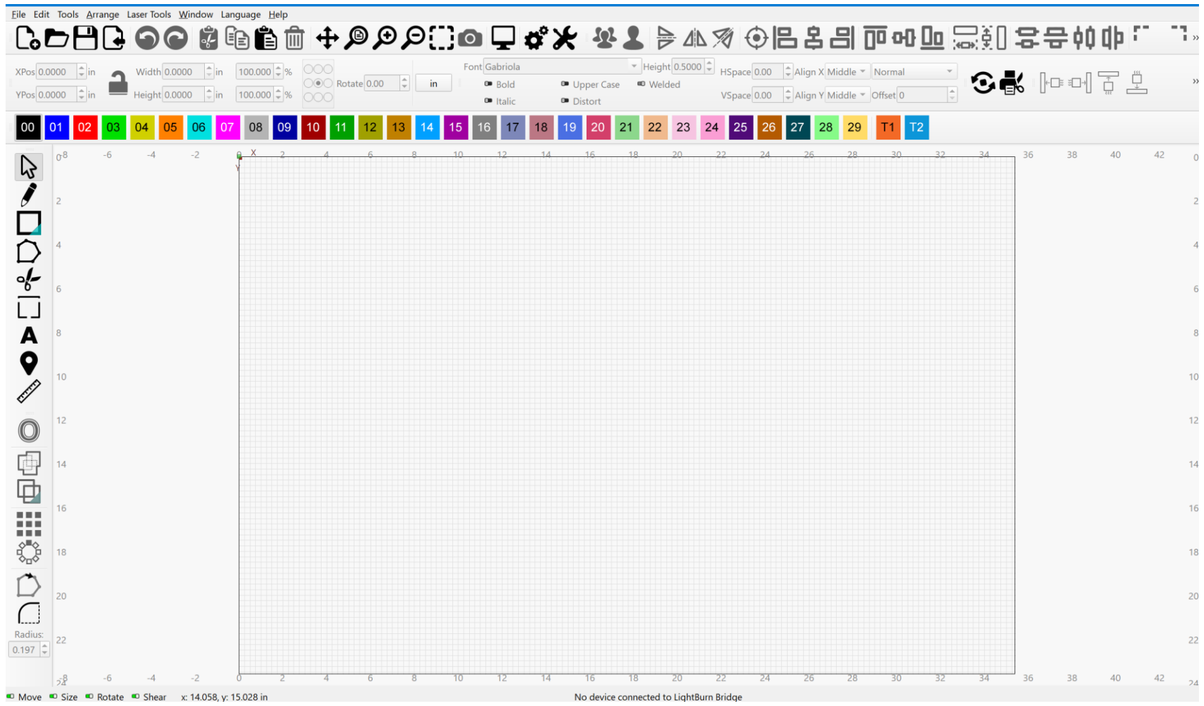
Step 1: Before beginning your design, make sure to save your LightBurn file.

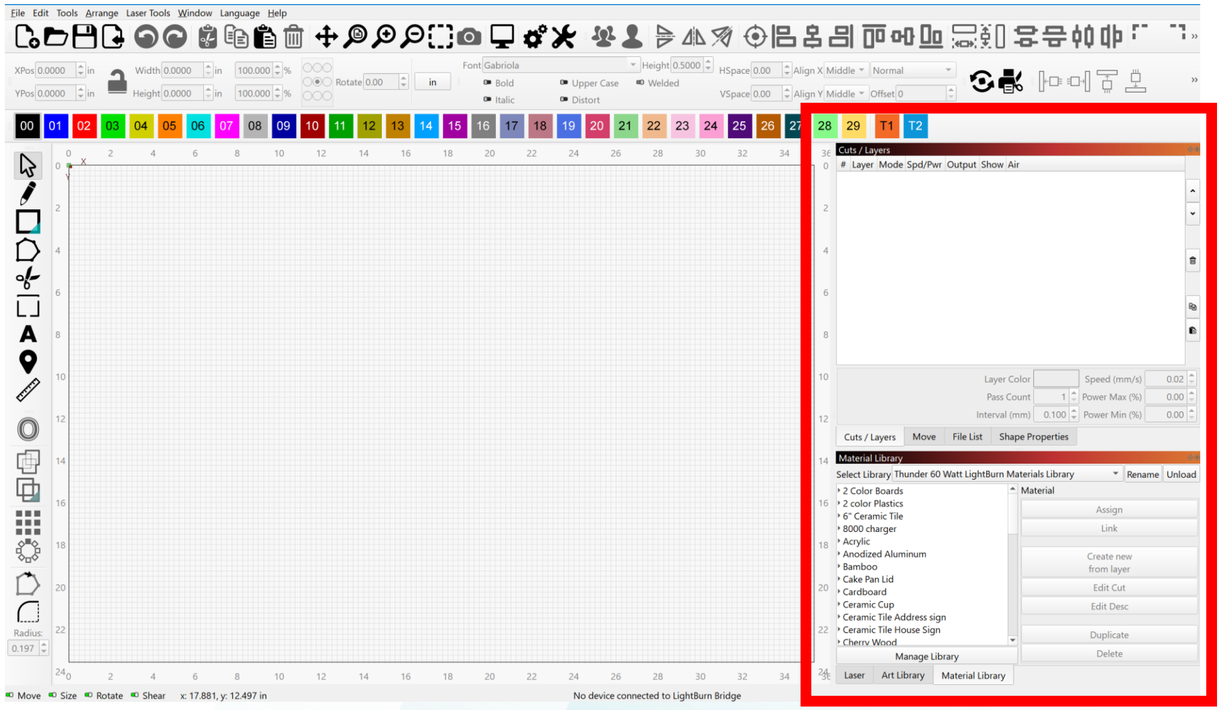
Step 2: Set your Autosave interval (one time setup). I prefer mine set to 5 minutes.

Note: If you forget to save your file manually, the Auto-save feature will save it in your Documents folder as a _backup.

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F12 Key to toggle Design Panes Off/On







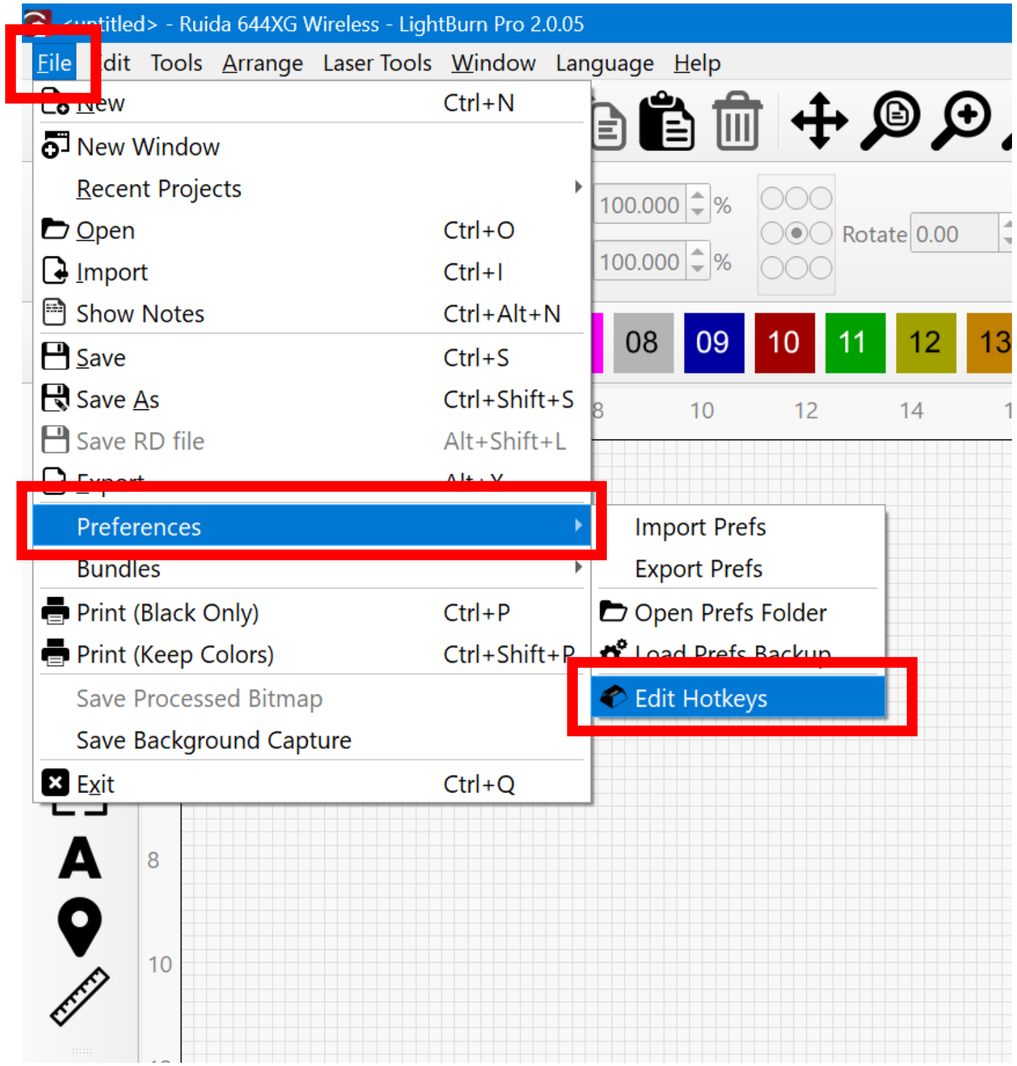
P Key Centers your work!

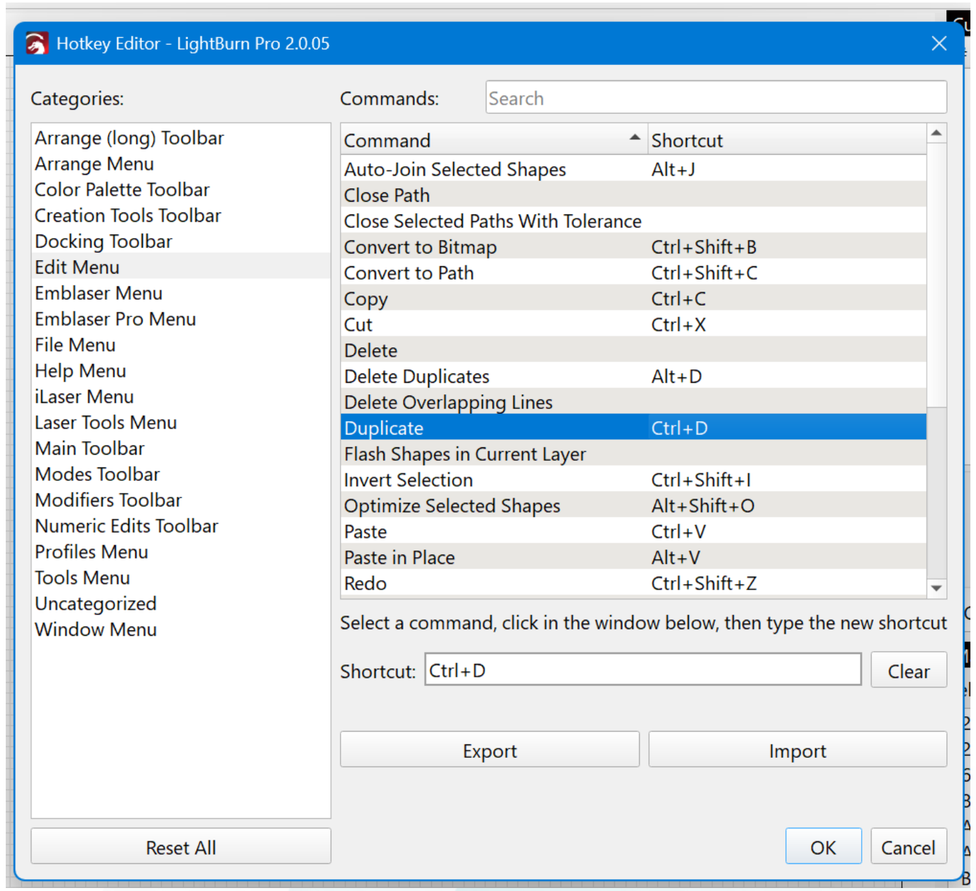
- Highlight the content you wish to center.
- Press the P key on your keyboard.
- The selected content will move to the center of the workspace. This feature is especially useful for Galvo Lasers ware positioning your design in the center of the workspace is crucial!
- Great for Stackable Designs!



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Edit Hotkeys for quick design work!

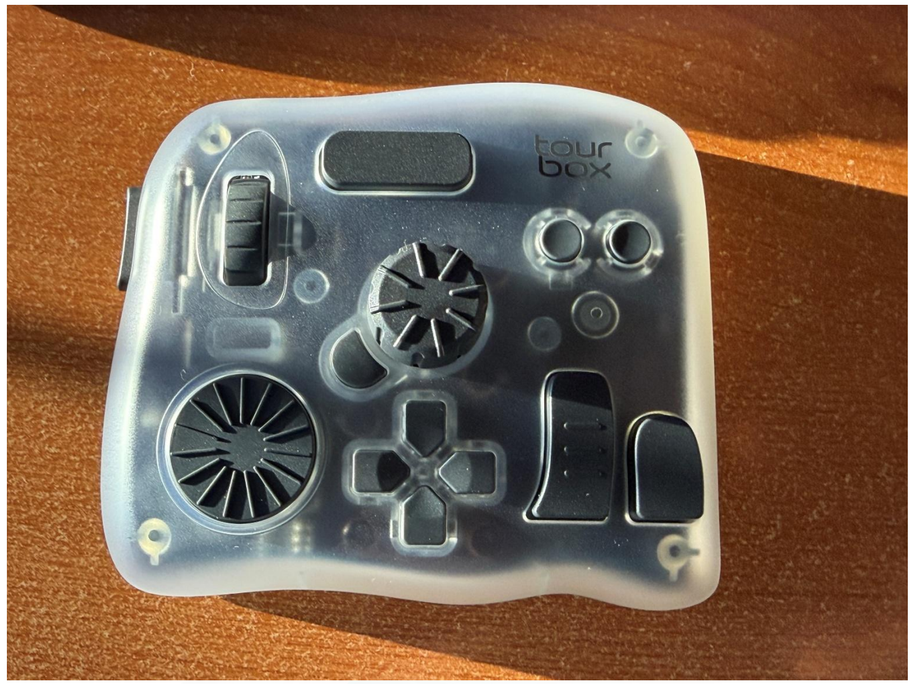






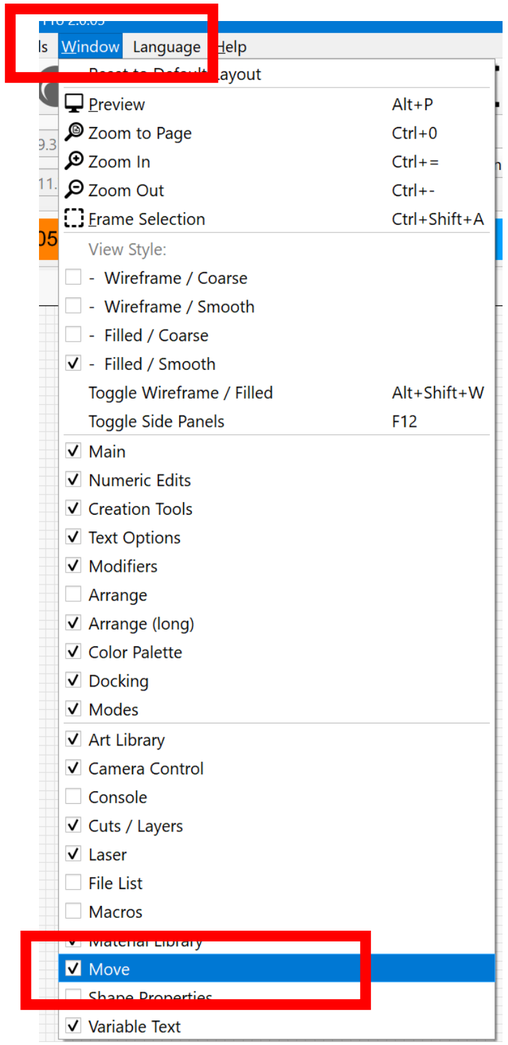
Add TourBox to 10x your design speed!

Integrate this third-party device to map hot keys to buttons, toggles, and dials. It will significantly enhance your efficiency during design work. Using a mouse in one hand and the TourBox in the other can elevate your proficiency across a variety of software programs! Not Sponsored!

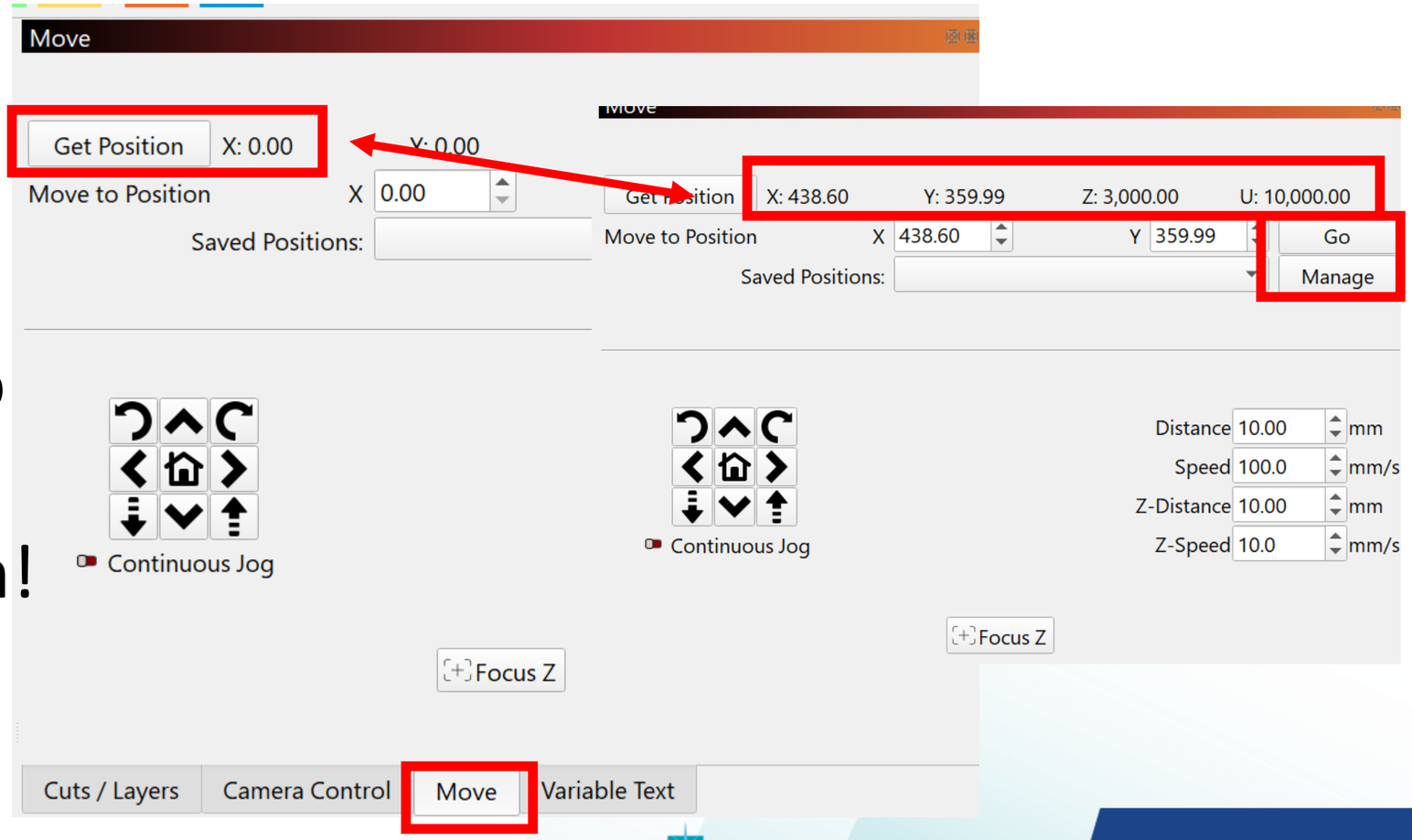


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Save a Laser Location (Rotary, Production work)



Move Laser Head to desired Position!

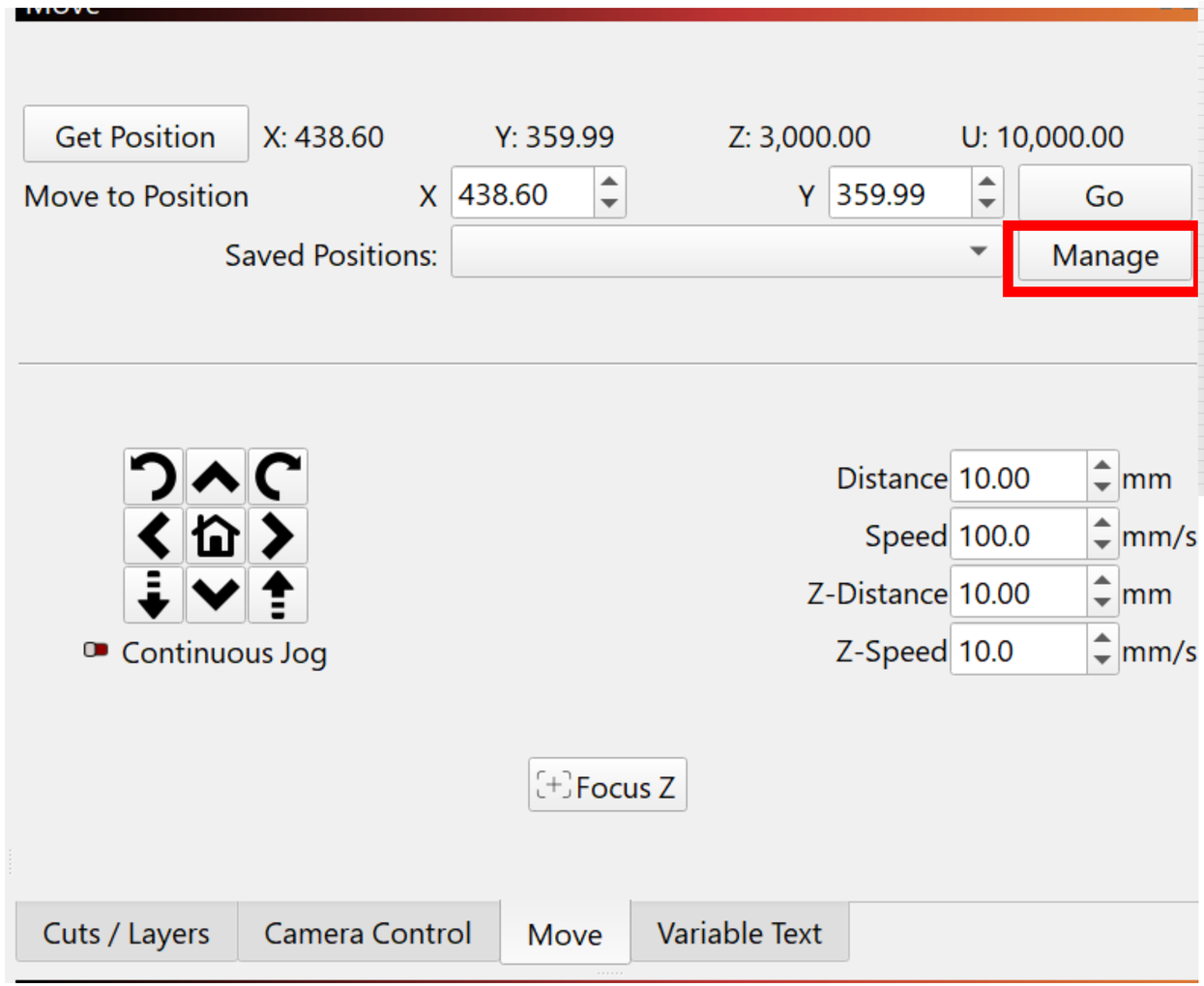


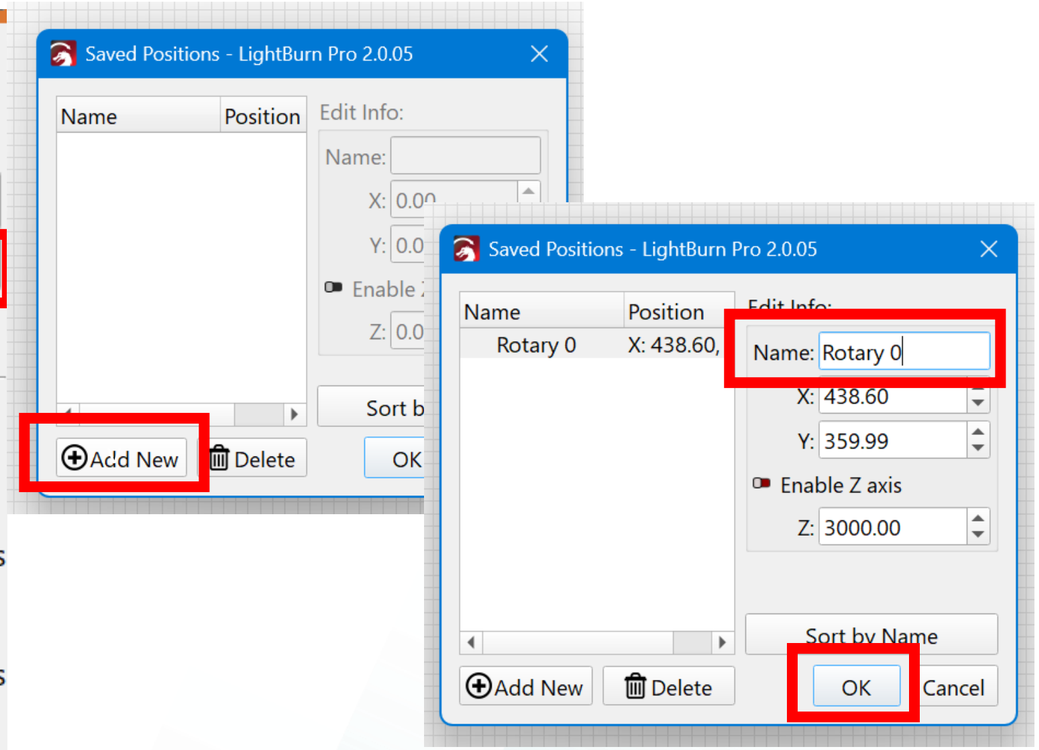


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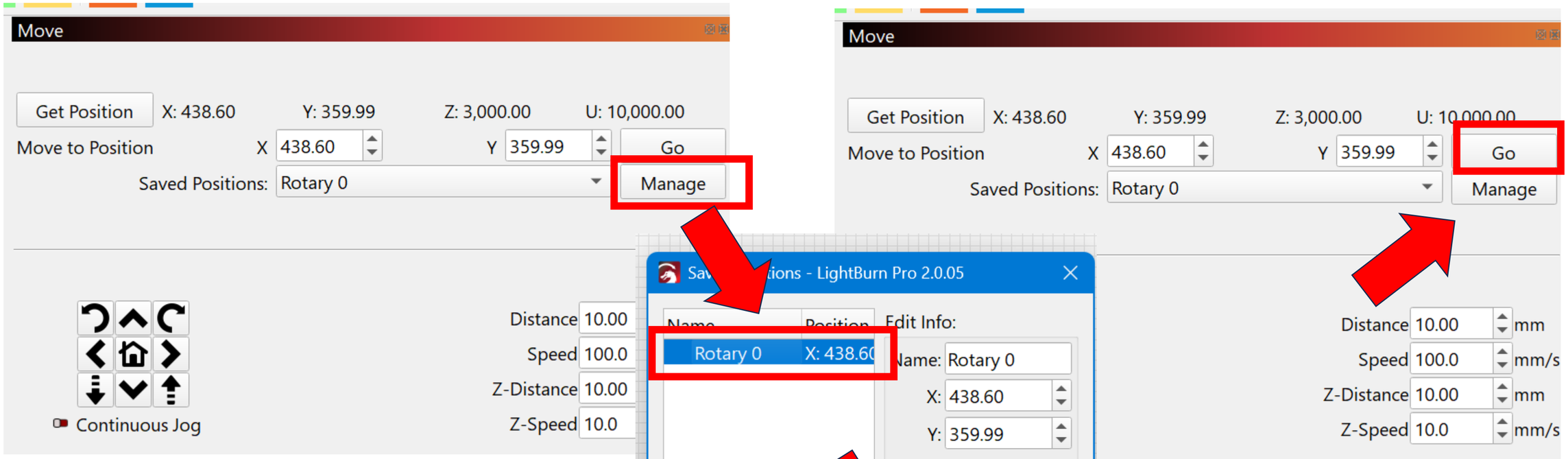
Save a Laser Location (Rotary, Production work)! Cont







Recall a saved Laser head Position!



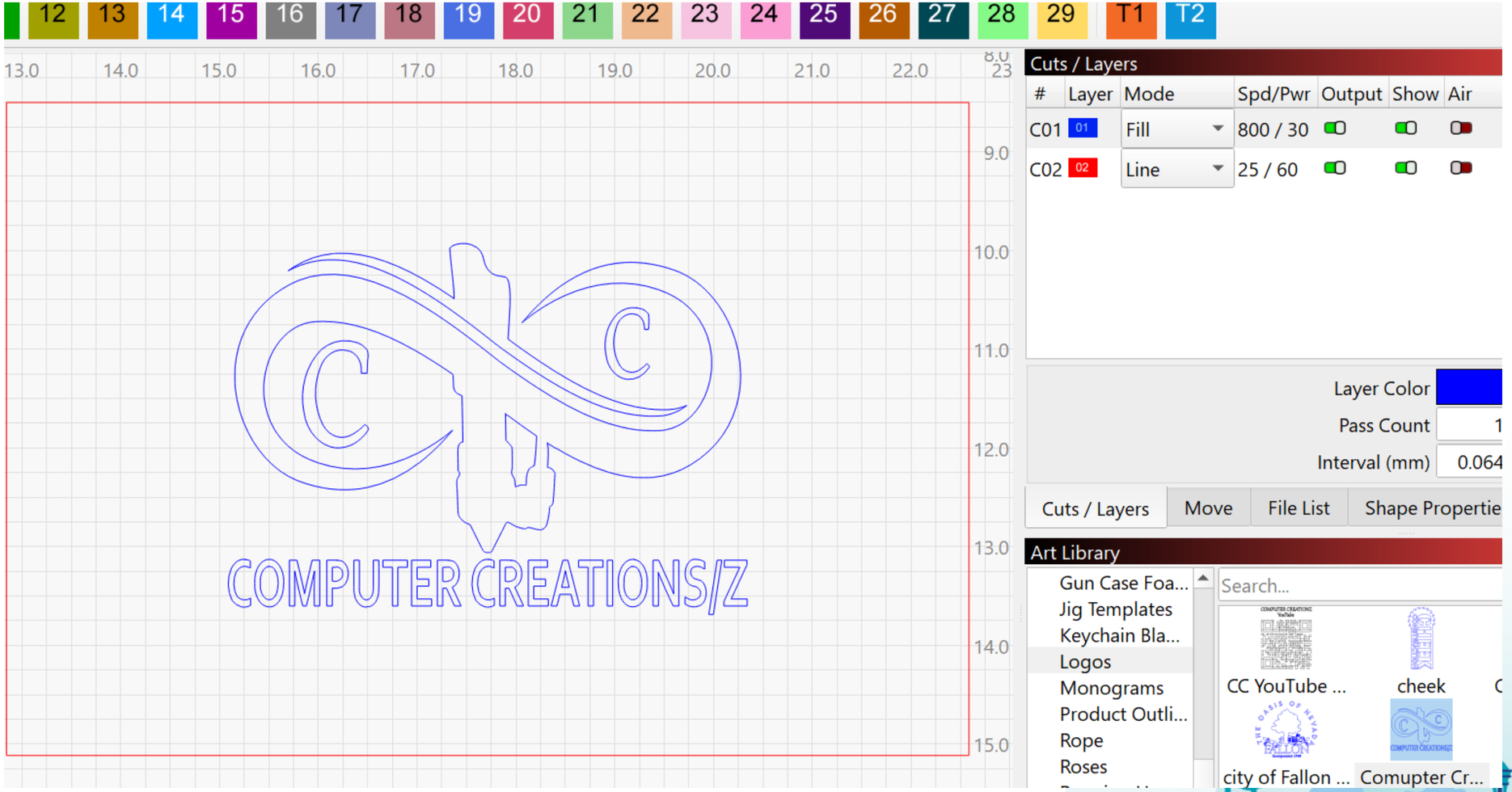
Select Manage >

Select your Location >

OK > GO!



Adding sub-layers in LightBurn

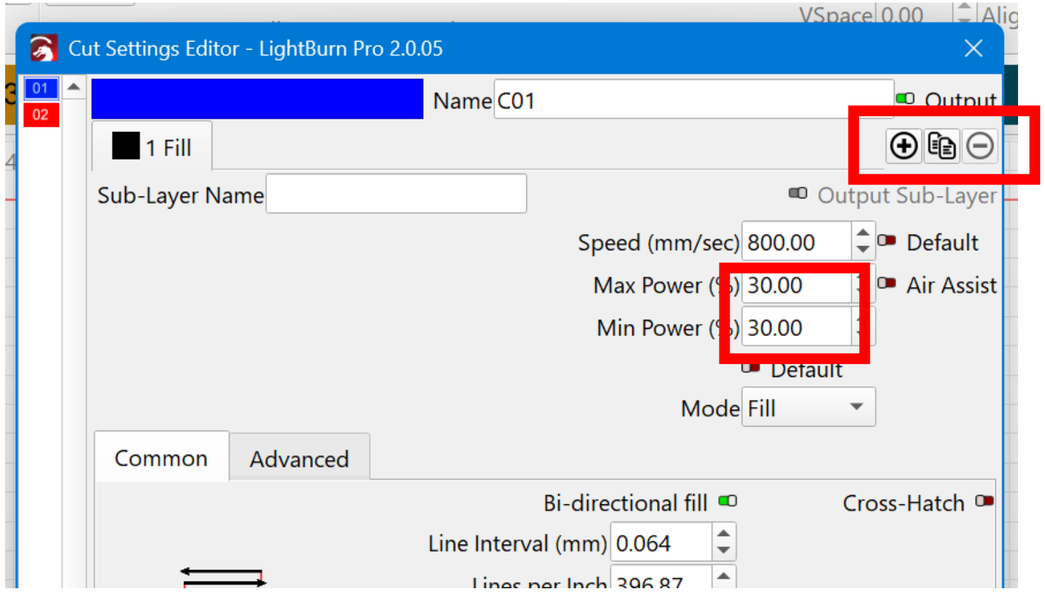


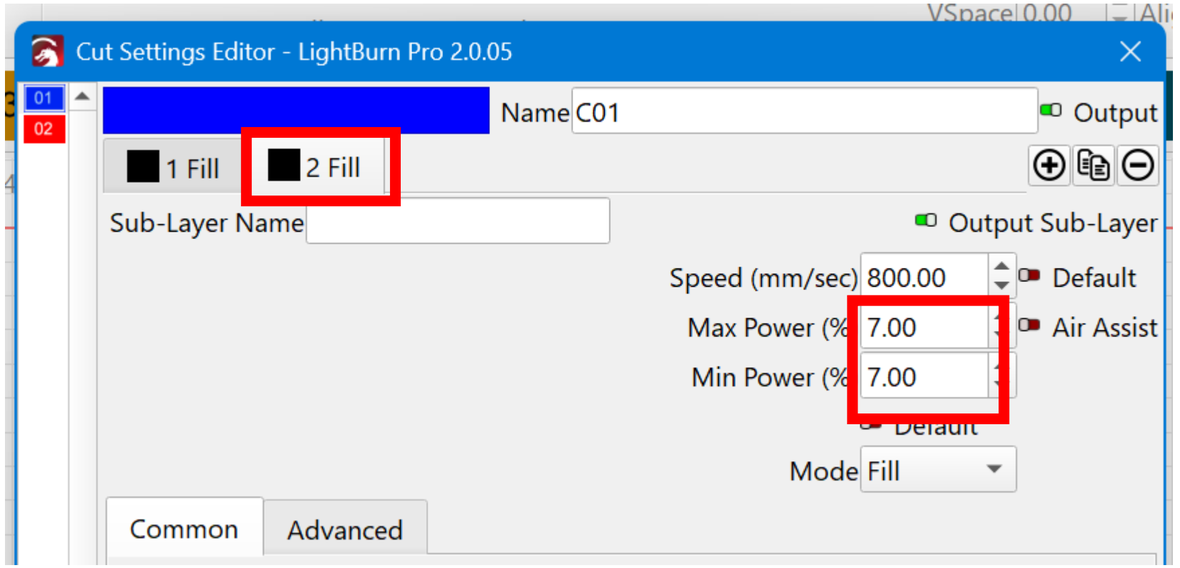
Lets say your engraving a Tricolor Acrylic and you need to go over an existing engrave with very low power
To bring out the color.

This is a very common practice when working with multi color acrylic!

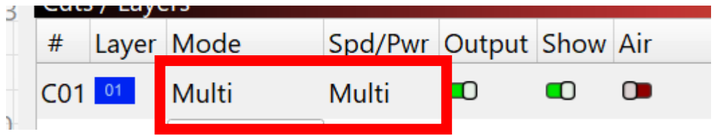
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Adding sub-layers in LightBurn cont.



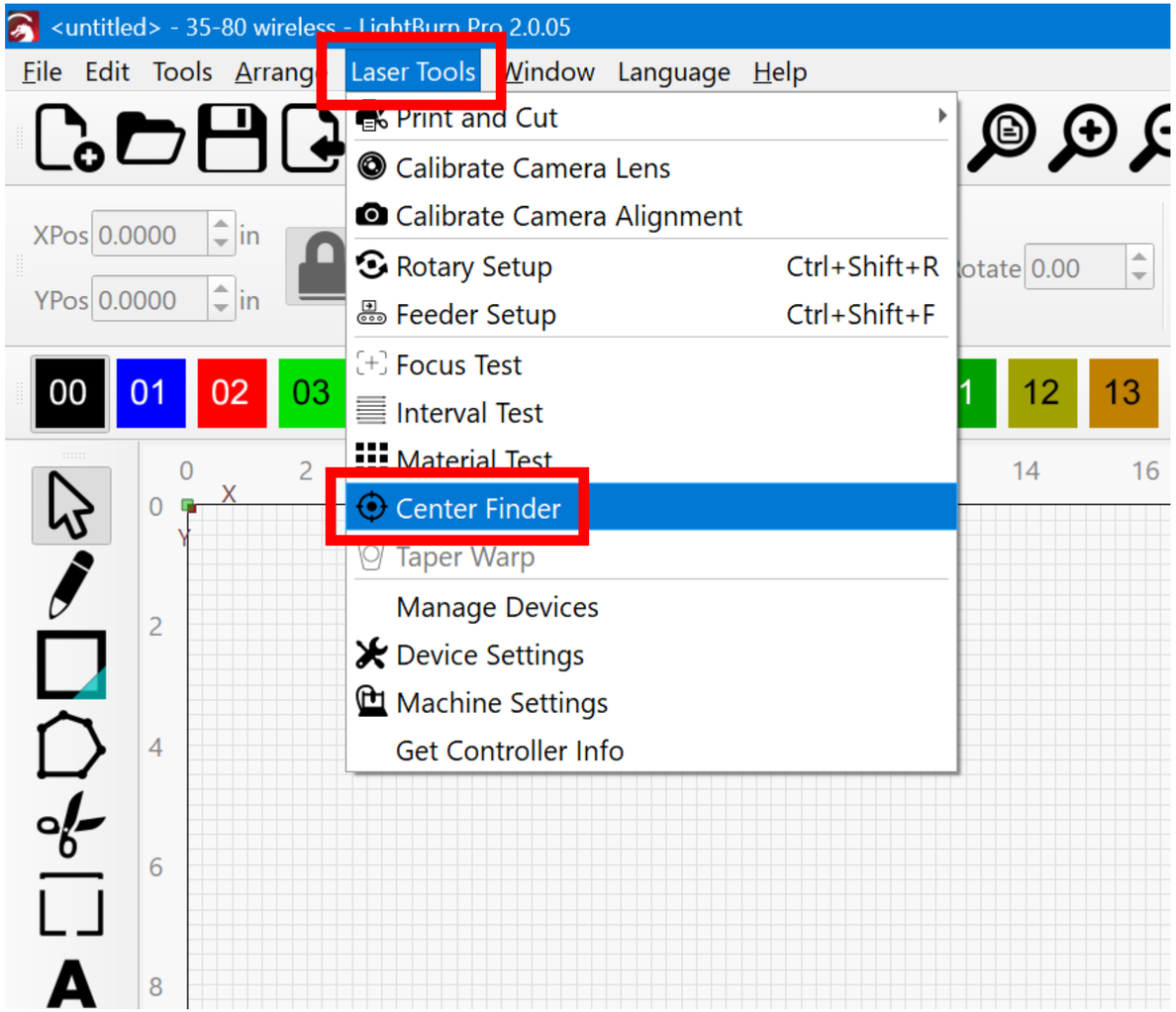


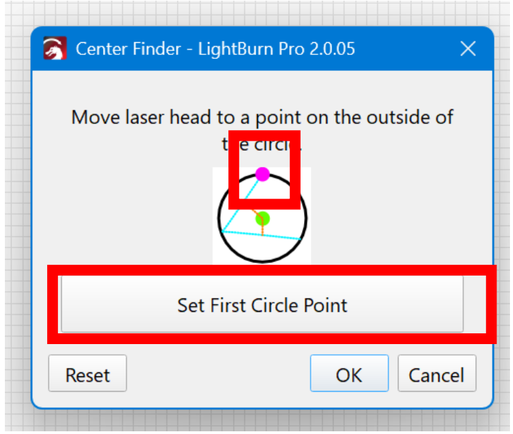
In LightBurn, incorporating Sub-Layers offers an effective solution for working with tri-color acrylic. This method provides a quick and simple approach to perform a second pass at a reduced power level.



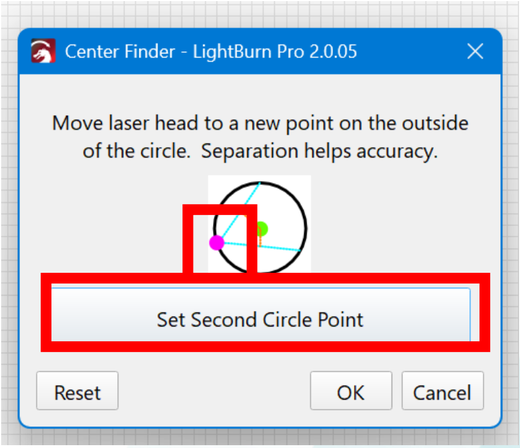
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Finding the center of a circle with LightBurn





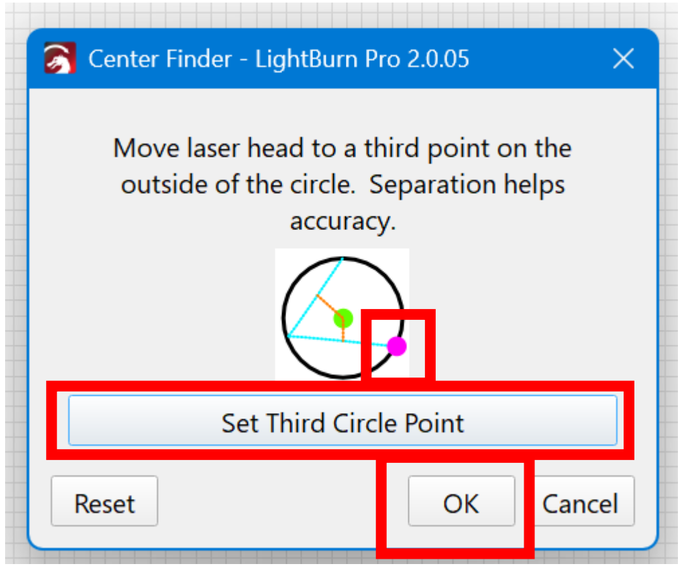
Place you round object on the Honeycomb. Drive The laser head to the top edge 12 o'clock position. Select Set first Circle point Button.



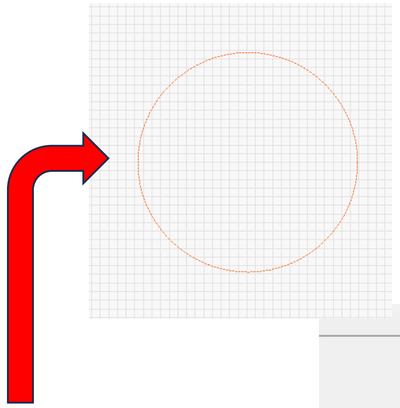
Relocate the laser head to the illustrated edge 8 o’clock position . Select Set Second Circle Point button.

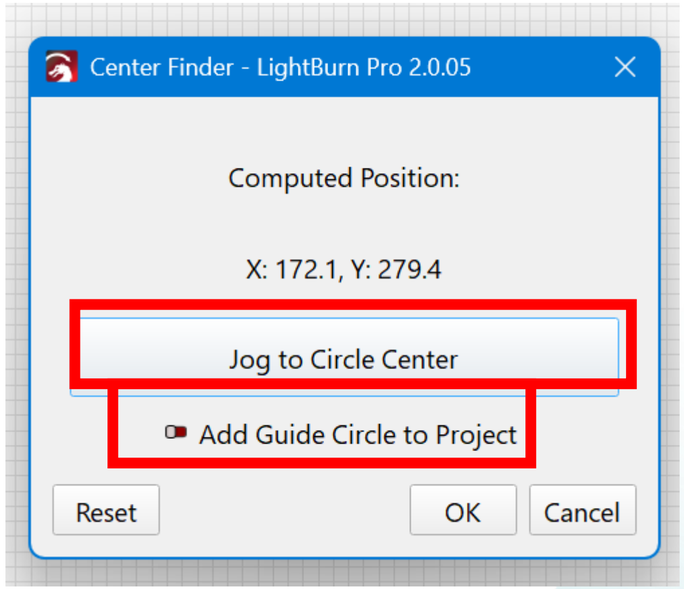
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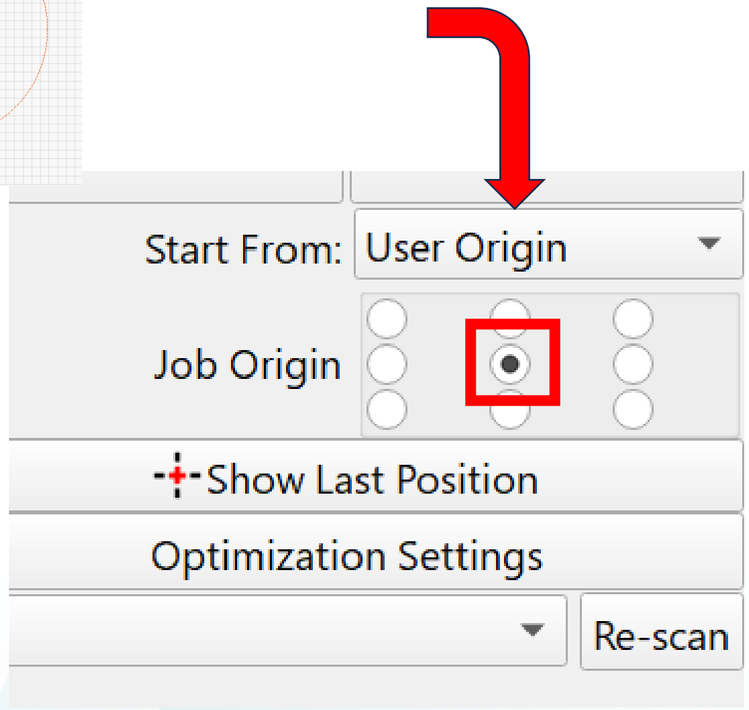
Finding the Center of a Circle with LightBurn (2)



Relocate the laser head to the illustrated edge, 4 o'clock position . Select Set Third Circle Point button.

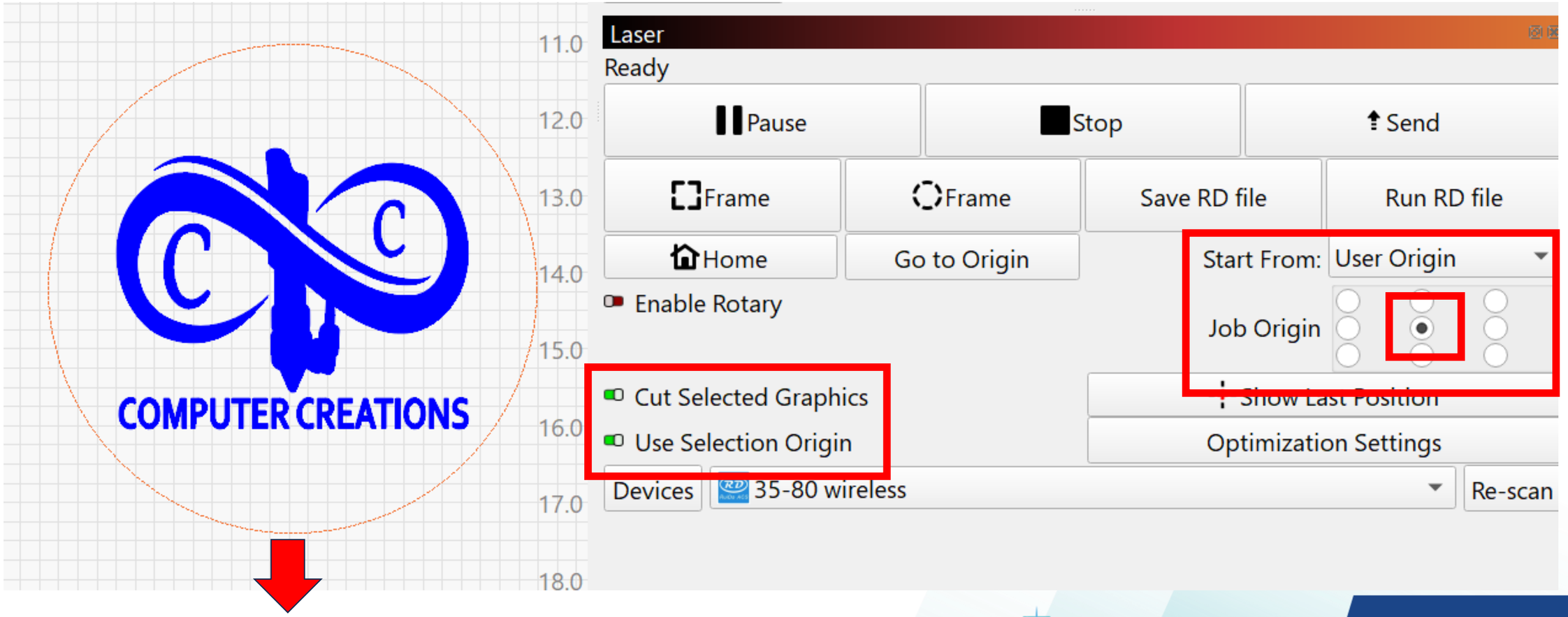






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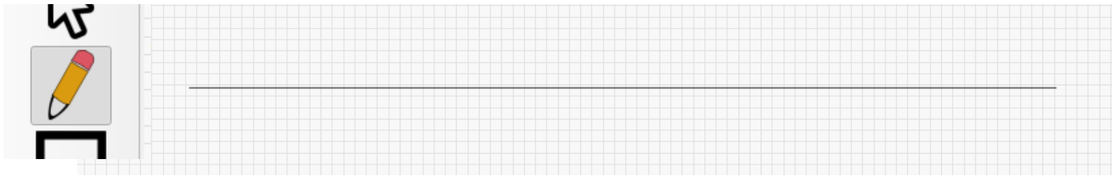
Finding the Center of a Circle with LightBurn (3)



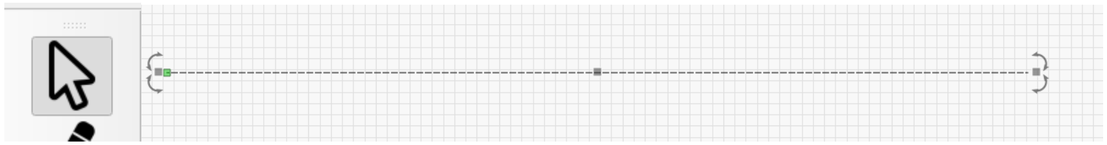
Use Circle Provided by center finder tool

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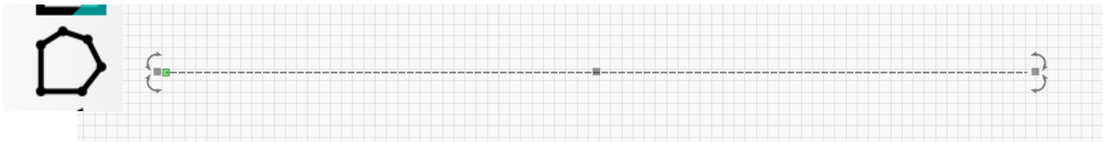
Applying Text to a Line



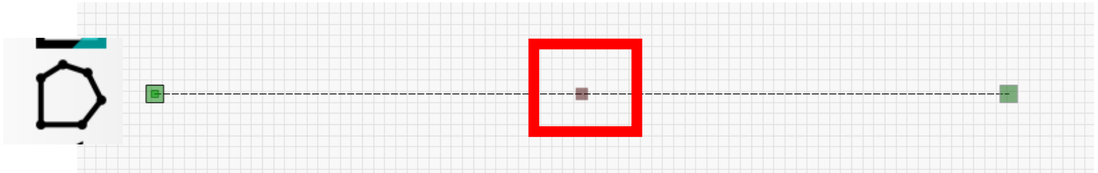
Select the Line tool and draw a Horizontal line. Hold the shift key to lock in status.



Click Arrow to select line.



Select Node Tool, hover over middle of line type I on keyboard for insert.



Select center Node and press the S key to turn node into smooth node.



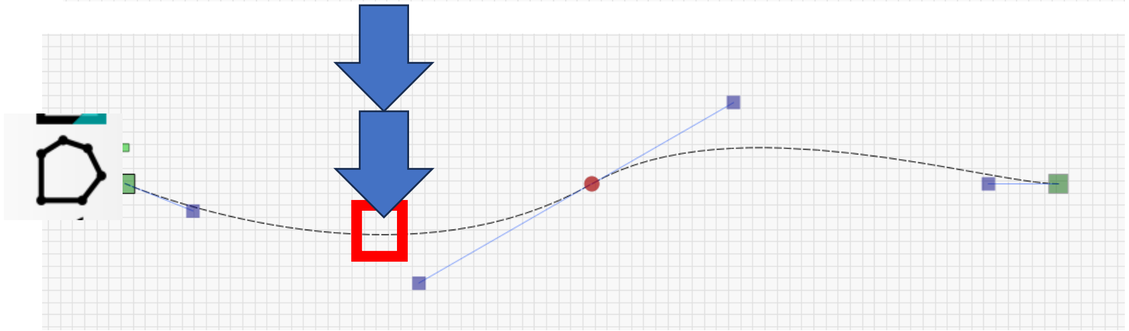
Your line should look like this got next slide.



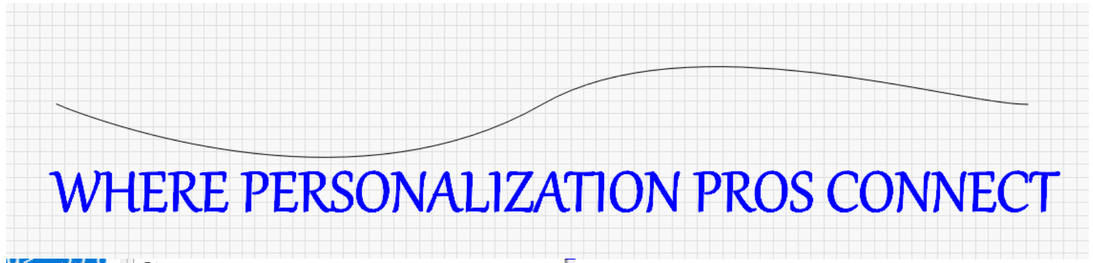
Applying Text to a Line, part 2



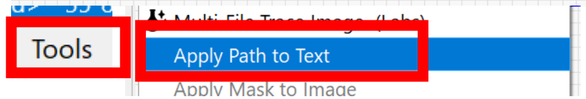
Hover cursor over middle of the line between far-left node and middle node.



Left mouse click and drag your mouse down to create wavy line.



Type out your text, select both the text and wave line you created. Make sure you line and text are on two different layer colors.





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VARIABLE TEXT IN LIGHTBURN

Saves huge amounts of time and eliminates errors!



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Let's talk about a scenario that would use this feature!

A customer contacts you and wants 200 3”x 2” name badges. They will provide you a list of the names via Excel and they are on a short timeline. Can you accommodate their request?



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Variable Text feature, Large Textual orders easy!

File Edit Tools Arrange Laser Tools Window Language Help

Robert Kofoed
Computer Creations

Column 0 Column 1
%00 %01
Column 2
%02

Column label in Excel CSV File

0 1 2

A	B	C	D
First Name	Last Name	Business	
Rebecca	Williams	Last Chance	
Ezra	Smith	The Pink Rose	
Reed	O'Bosky	The Grass is Greener	
Jaden	O'Bosky	The Grass is Greener	
Ron	Wertz	Wertz Creations	
Anna	Nettles	The Busted Branch	
Ethan	Atkerson	The Wine Stop	

Note: Separate short and long names into 2 different excel csv files!

Variable Text
Current: 1 Previous Next
Start: 0 Test
End: 7 Reset Bake
Advance by: 1 Auto-Advance
APA excel CSV example csv.csv Browse Clear

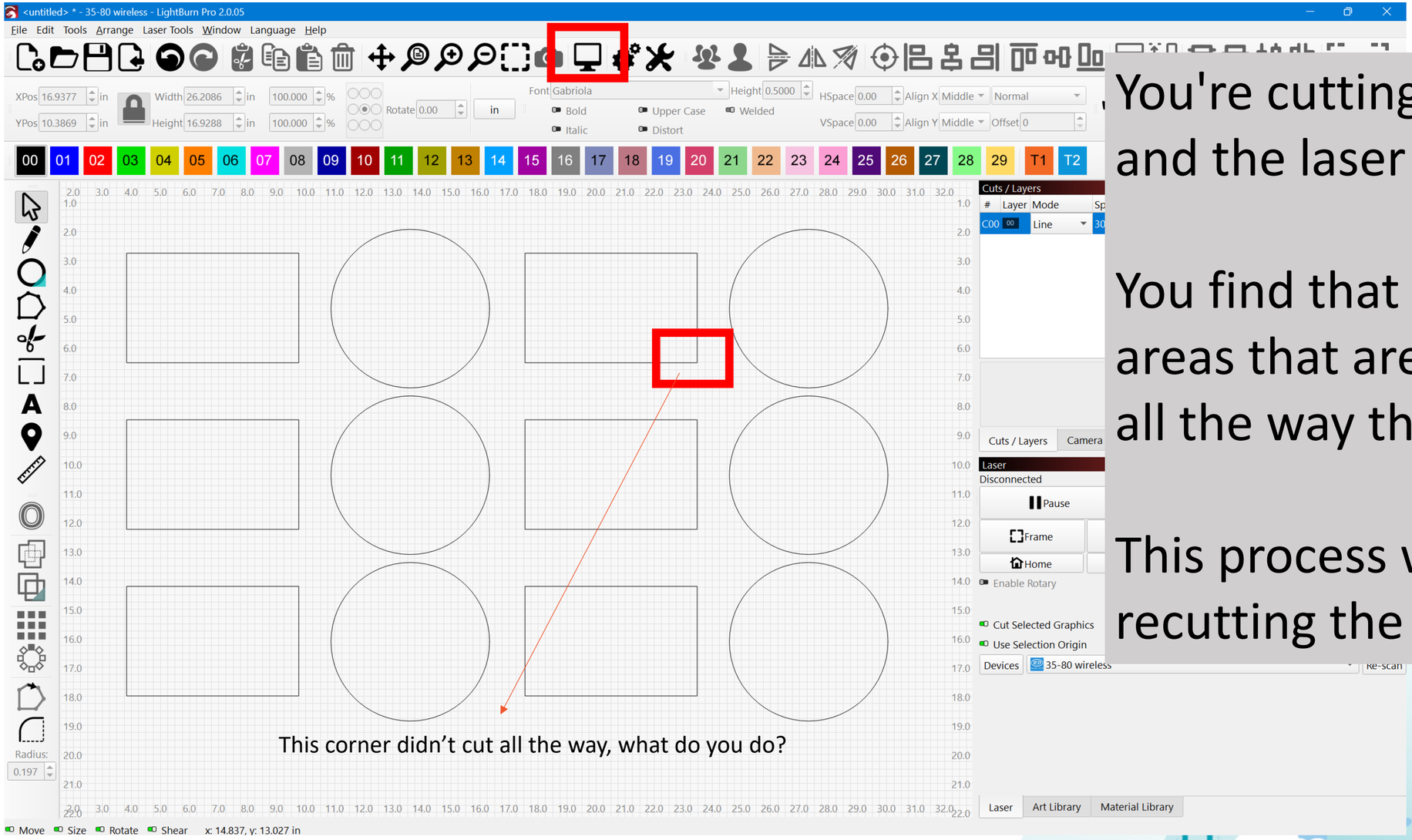
Cuts / Layers | Camera Control | Move | Variable Text

Laser
Disconnected
Pause Stop Send
Frame Frame Save RD file Run RD file
Home Go to Origin Start From: Absolute Coords
Enable Rotary Job Origin
Cut Selected Graphics Show Last Position
Use Selection Origin Optimization Settings
Devices 35-80 wireless Re-scan

Laser | Art Library | Material Library

Move Size Rotate Shear x: 22.021, y: 8.472 in Min (18.473x, 7.391y) to Max (22.671x, 10.318y) 1 objects

Start Here Function in Preview window



You're cutting out shapes and the laser is all done.

You find that there are areas that are not cut all the way through!

This process will save you from recutting the entire file!

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Start Here Process, a true time saver!

1 . Don’t move anything in your laser!

2. Take you finger and gently check each piece to ensure you have movement at each piece. Ensure all areas of the cutouts wiggle.

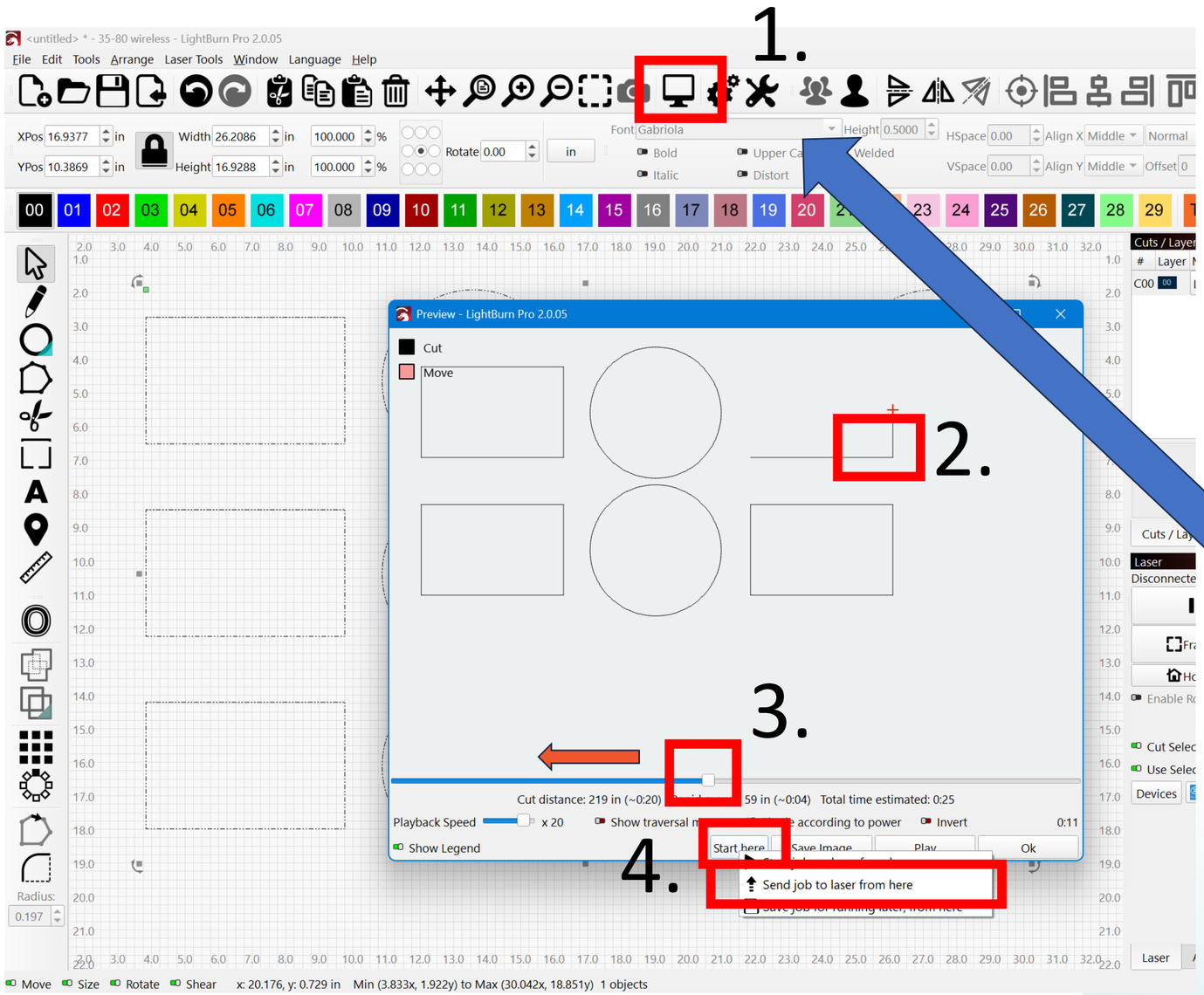
3. Locate any areas that are solid and feel different. Remember their locations. You will need this for the next steps.

4. Make sure all your designs are selected and click on the preview icon.



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Start Here process in the Preview Icon



1 . Select Preview Icon.
2. Locate the area that is not cut all the through in the preview window.
3. Grab the blue scroll bar white button and move the to left until the laser preview shows just before the are that is not cut through.
4. Select Start Here button on the bottom.

Start Here Notes:

Once you resend the job to the controller on the laser the entire job will want to run.

You have just changed the start point of the project. Once the bad part is re cut. Pause the laser hit escape and rerun if needed.

Follow this process for each bad spot. This will eliminate you having to recut the entire project!



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YouTube Channel





How to Reach out to us!

Computer Creationz Face Book Business Page!



Please complete your session evaluation

Scan this QR code with your cell phone camera

This is session number :303

Mastering LightBurn: Advanced Tips to Elevate your Laser Projects

