Muse Laser: Setup

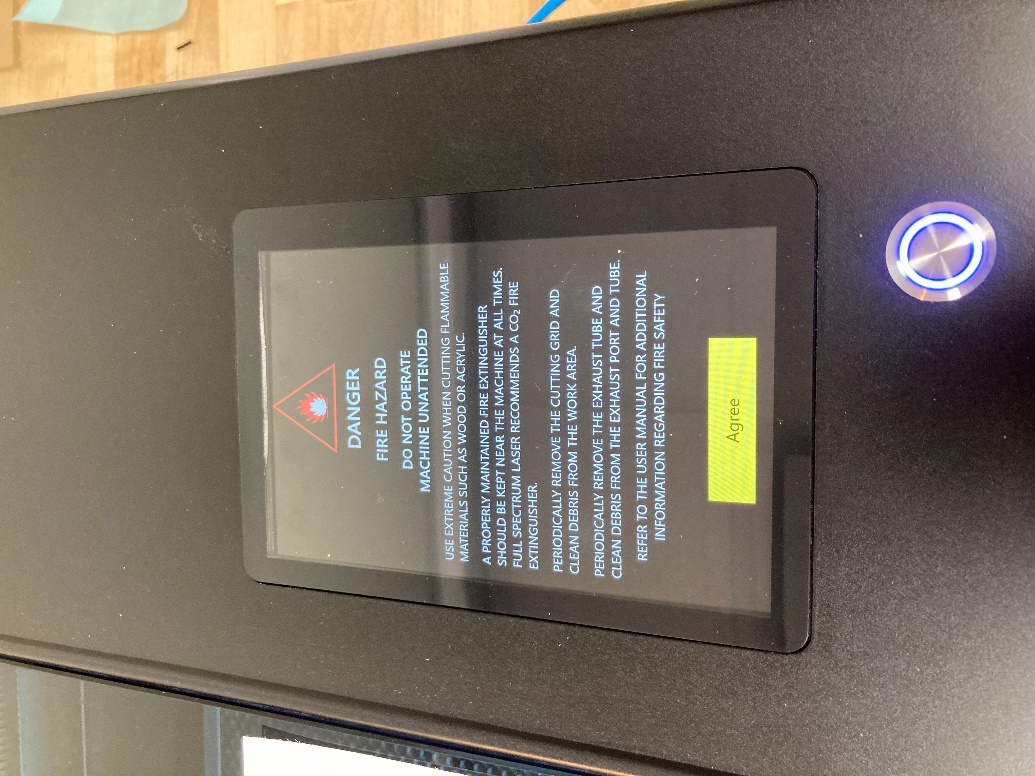
1. Turn on the laser by using the switch on the back-right of the machine
2. Flip the switch on the power strip under the table to turn on the water pump

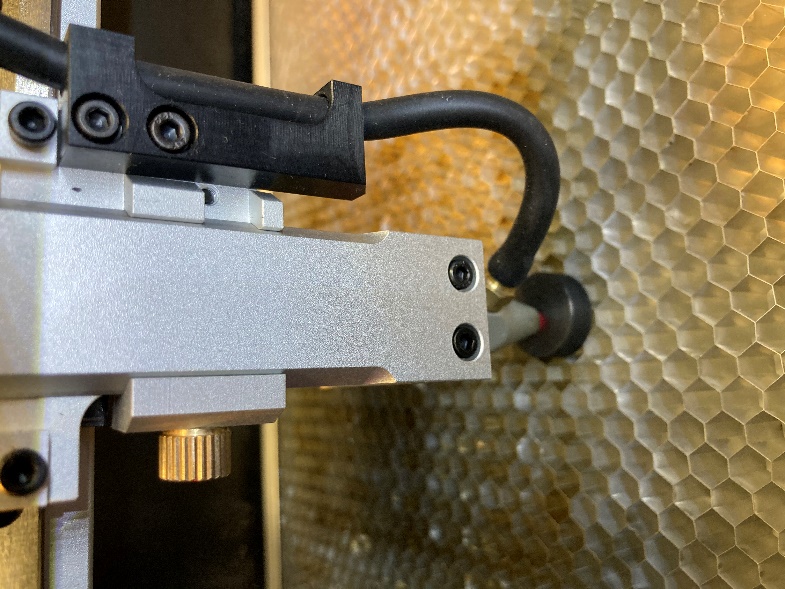


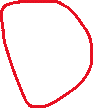
1. Push the red power button on the exhaust extractor
2. After the laser is powered-up, a ‘fire hazard’ warning will appear on the touchscreen



* 1. Touch “Agree”

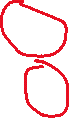


1. Adjust the focus
   1. loosen the gold screw on the laser head so it can move up and down freely
   2. place spacer under laser head
   3. gently place head on spacer and tighten gold screw



1. Place material on the honey-comb sheet.
   1. If the material curves up at the ends, use magnets to weigh down each corner





1. On the touchscreen, touch “run perimeter”
   1. Move the material so the red laser pointer traces the outer edge of the material
2. Once the settings are adjusted, touch “run job” to start cutting
   1. The laser will not fire if the lid is open





Muse Laser: Design

Access the Software:

To access the laser’s design software, type the laser’s IP address into a browser’s search bar. The IP address can be found in the “Network” menu on the laser’s touchscreen. Since it is a browser-based software, both the laser and the computer must be connected to the same network.

Design:

You can either use the laser software to draw your design or import another file. The most compatible filetypes seem to be DXF, SVG, and PDF. There are advantages and disadvantages to both:

Using the laser software:

Advantages:

* The design can be drawn straight into the software so there is no need to export/import and convert files to another filetype.
* The laser software may be more user friendly to someone not experienced in design.

Disadvantages:

* The laser software does not have a set of tools that is as extensive as another design software, so you may be limited to more basic designs.
* The project can only be exported as a .re3 file, which is not a universal filetype.

Importing from another software:

Advantages:

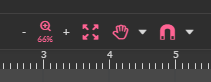
* File saves as a universal filetype (PDF, DXF, etc.) so it can be used in other software or for other machines.
* The tool set is more extensive.

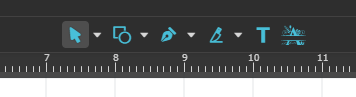
Disadvantages:

* Time lost due to time it takes to export the file.
* Other software may not be user friendly.
* After importing the project into the laser, the power settings for the individual components still need to be adjusted.

Creating a Design:

* Create a new project by going to File > New project. Under the ‘Projects’ dropdown menu, a new project entitled, ‘New Project’ will appear. Double click on that to change the name. The white grid is the printable area of the laser.
* Above the grid are cursor/drawing options:





Generates monogram

Inputs a text box

Cuts lines

Draw point to point lines/ curves

Draw a shape

Returns cursor to normal pointer (V)

Snaps the endpoints of your lines together

Move the screen around using the mouse (H)

Fits the full grid in the screen

Zoom in/out (ctrl +/-)



Power Settings:

Vector:

* Power and current are similar. First adjust the power setting and then adjust current to dial it in.

Raster:

* Power and speed are similar to that of the vector settings but the threshold refers to the thickness of the lines.

Sample power settings:

Cut through the plastic:

* Speed: 70
* Power: 2-3
* Current: 60

Weld the plastic:

* Speed: 76
* Power: 3
* Current: 37