

Laser Etching

Laser Etching is an easy way to customize a product. The laser recognizes anything with a stroke above .01" as an etch and anything smaller than .01" will try to burn through.

Design

The equipment in Makerlab is relatively easy to use, but there are two elements that can be challenging for new designers 1) What should I put on my project? 2) Do I have the skills or do I want to learn the skills that will allow me to create a project that matches my vision?

We encourage you to design your own artwork, but you may also download a copyright free image or pay an artist for his or her work. Some of the free websites we often use are monogramframes, vectorstock (free vectors), or vecteezy.

Inkscape Document Sizes

- File > document properties, set units to inches
- Project Dimensions (listed horizontal x vertical)

o Coaster: 3.75 x 3.75" (Center Engrave)

Notebook: 7 x 9" (Center Engrave)

Pint Glass: 5.75" x 9.75"Wine Glass: 4.25" x 10.875"

Picture

You can take your favorite picture or a graphic you like from one of the resources, and etch it into your glass. The steps are simple:

- Find your image; images with high contrast or/and are already in black and white help. I
 tend to search clip art sites for "silhouette" as these turn out great for the following
 steps
- In Inkscape choose File > Open (your picture). Choose embed from the pop-up window
- Select your picture and go to Path > Trace Bitmap
- Check the live preview button and see which mode works best. Typically the default is a really good starting point, but the close you get to 1 on brightness cutoff, the more black it picks up. Conversely, the closer to 0 you get, the more white will come out.

- Press the apply button
- Move the new vector we just created and delete the jpg image

Add any additional text, images, or embellishments and your file is ready to be etched

Monograms

Download a Monogram

 Sites like monogramframes.com are good for absolute beginners who want to create a custom project quickly

Make a Monogram in Inkscape Text

- Use the text tool ("A") along the left menu
- Type the text you would like in yourmonogram
- With the text tool still selected, double click in between the letters of your monogram which will highlight the text so you can change your font
- Change the font in the upper left corner

Shape

- Use the shape tools on the left menu to create a circle or diamond
- If you would like a perfect circle or square, press Fl on your keyboard which will select the move tool, then click on your shape.
- The W & H proportions will appear at the top of the screen

Advanced

- Add an additional shape to outline your monogram
- Add an embellishment (e.g. laurels, berries, branches...etc)
- The font is everything, so as you get more advanced, or would like to spend more time researching fonts, you can go to free resources like
 - o dafont.com
 - o fontspace.com

Finishing Steps

- Rotate the image as necessary
- When finished, file > save as> PDF
- Save to Desktop or USB Drive