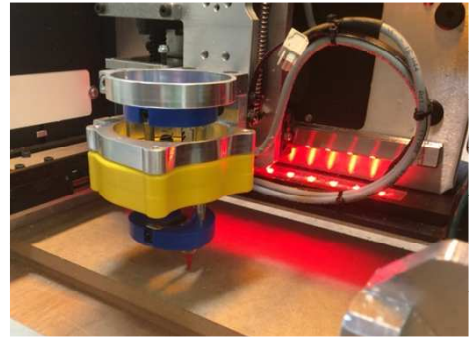


## Handibot Plotter Pen User Manual

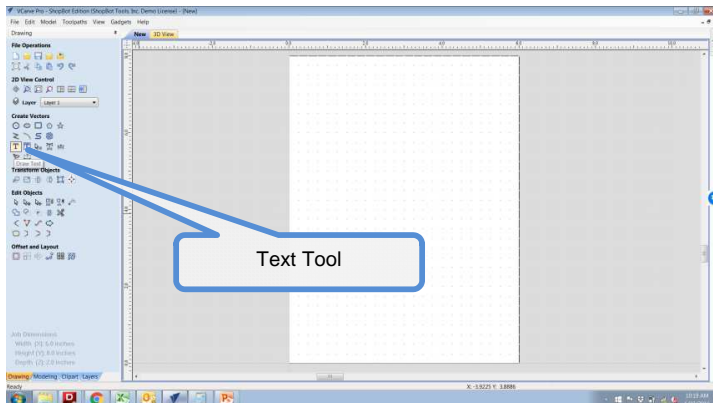
1

The handibot plotter pen holder is a versatile accessory that can be used to hold markers, fabric pens and even paint brushes. You can use it to create art, draw on t-shirts, or make colorful signs on any surface.



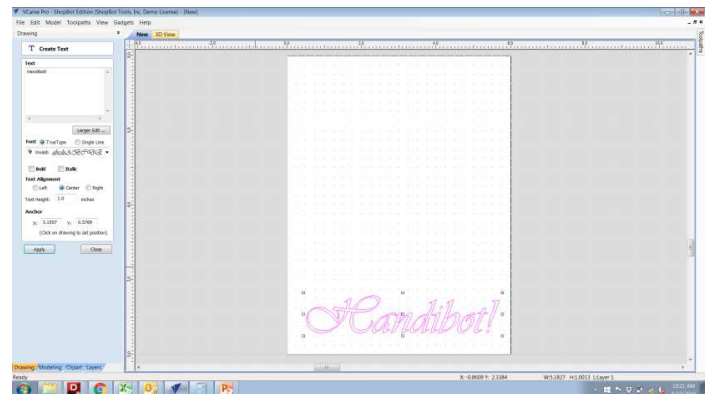
2

Creating toolpaths for the pen is easy. To draw text, simply use the text tool in vCarve



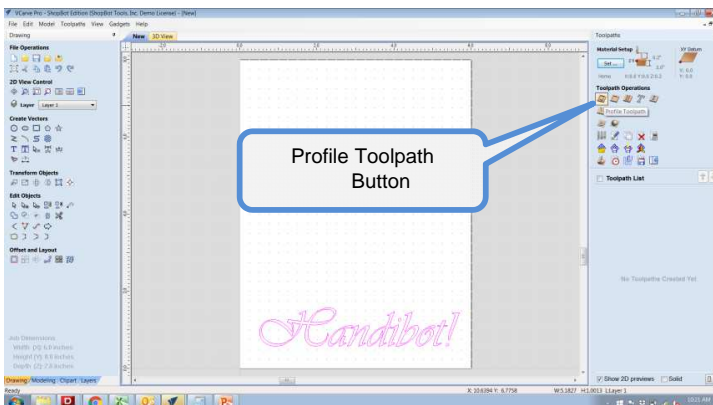
3

Choose your font and text size, then click to place the text in your work area



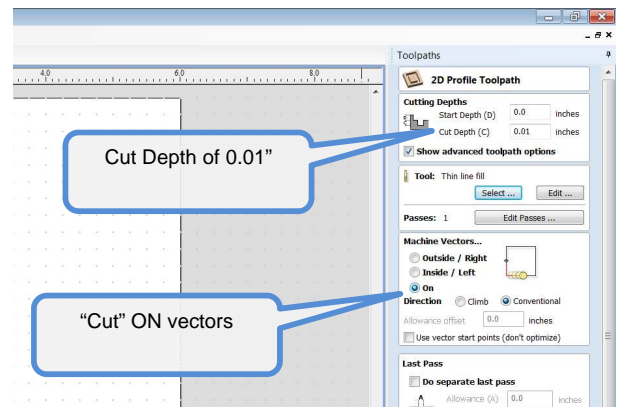
4

To trace the outline of your text, create a profile toolpath

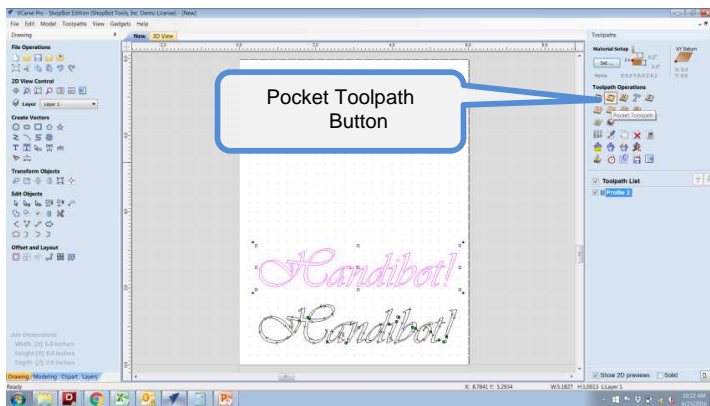


5

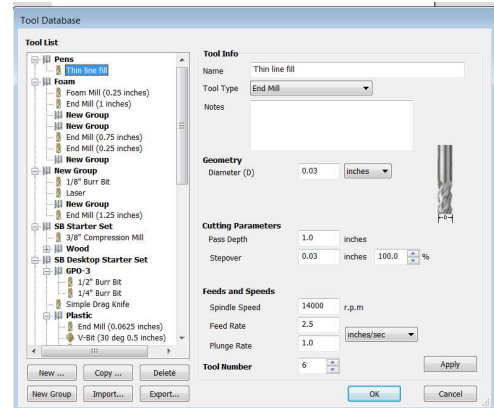
The pen barely needs to touch the surface, so choose a shallow "cut" depth and instruct the tool to cut ON the vector lines



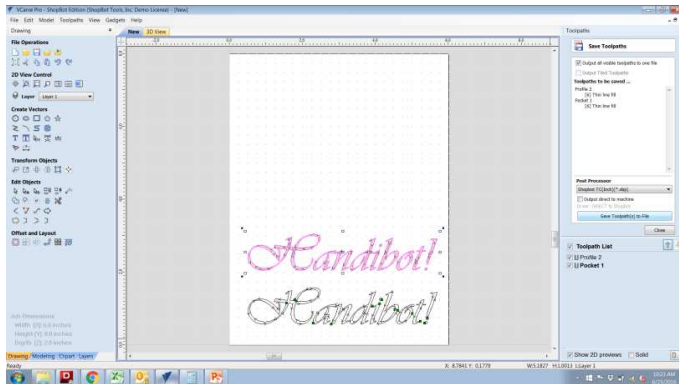
- 6 We'll make a second copy of the text and tell the tool to fill in the letters this time using a Pocket Toolpath



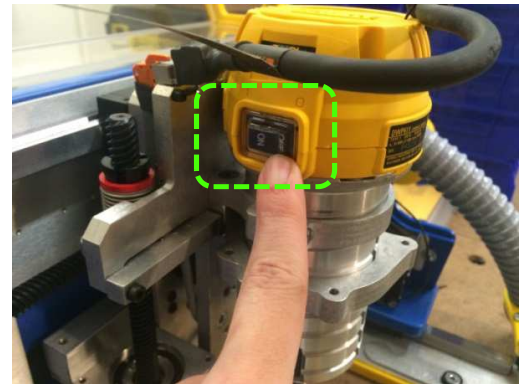
- 7 I created a custom tool in my library for drawing. Most important is the tool diameter and stepover values. This will control how well the color fills in your drawings



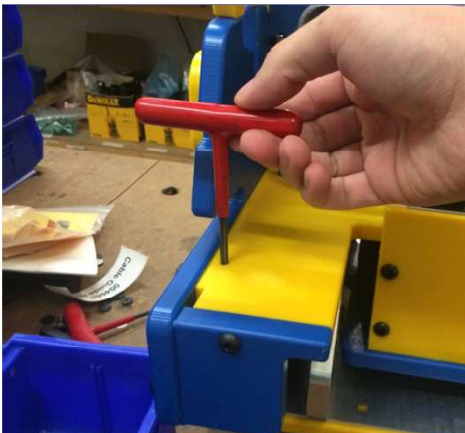
- 8 I'll save both toolpaths into one cut file.



- 9 You'll need to remove the router to install the plotter pen. For safety, turn router power switch to "OFF"



- 10 Grab the 4mm wrench from its holder on the back of your handibot.



- 11 Loosen the two bracket bolts on the front of your handibot. Be sure to hold onto the router; it may drop as the brackets are loosened!

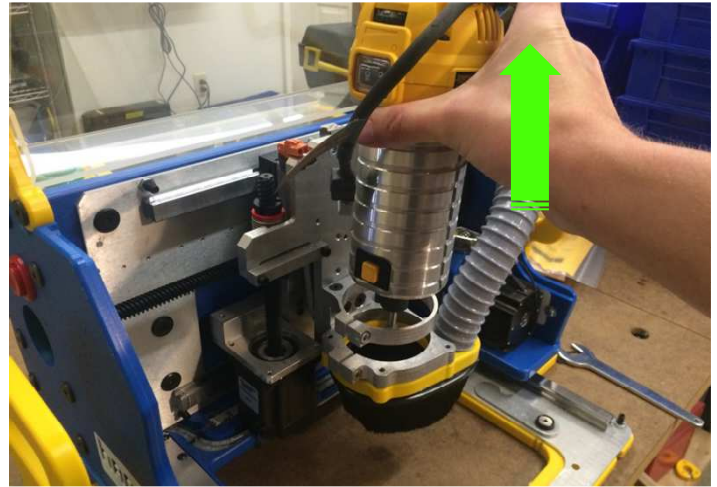




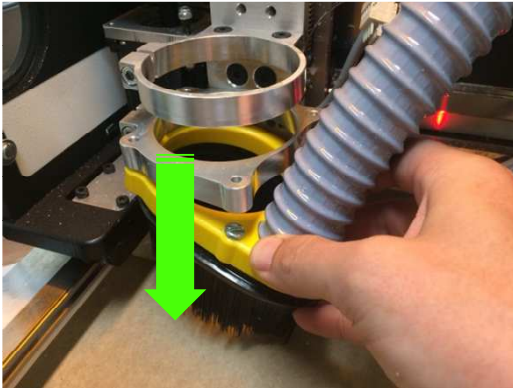
- 12** Unplug the grey router power connector from the orange receptacle on the Z axis



- 13** Lift the router straight up out of the router bracket and set it aside.



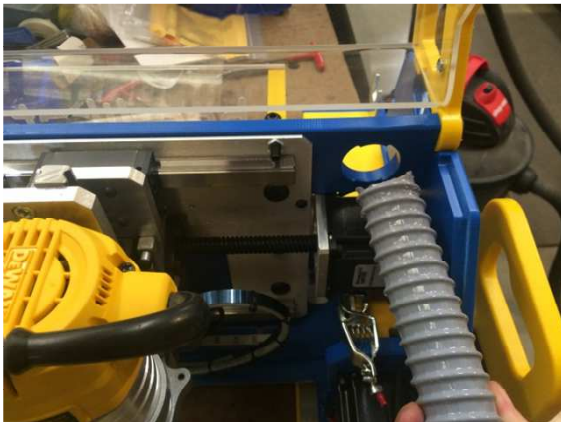
- 14** Pull the vacuum foot out of its magnetic holder by tugging down on it firmly.



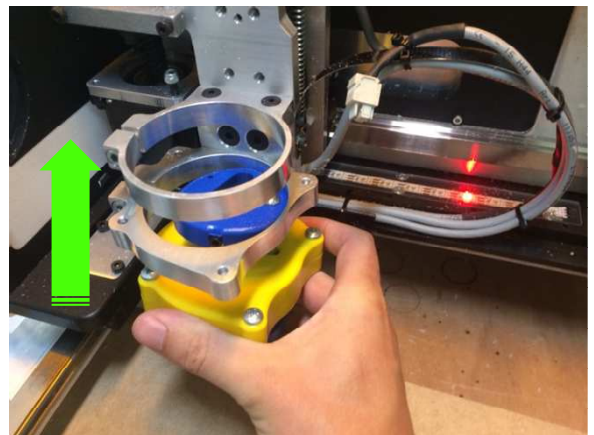
- 15** To remove the vacuum foot entirely, unscrew the hose from the handibot by twisting it clockwise.



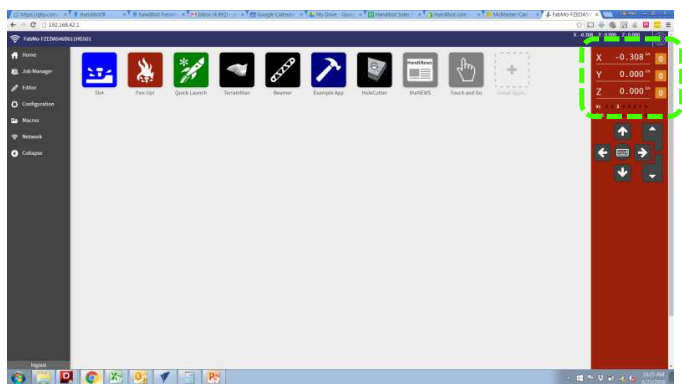
- 16** Once the vacuum foot is released, set it somewhere out of the way so that the tool doesn't roll over it during cutting.



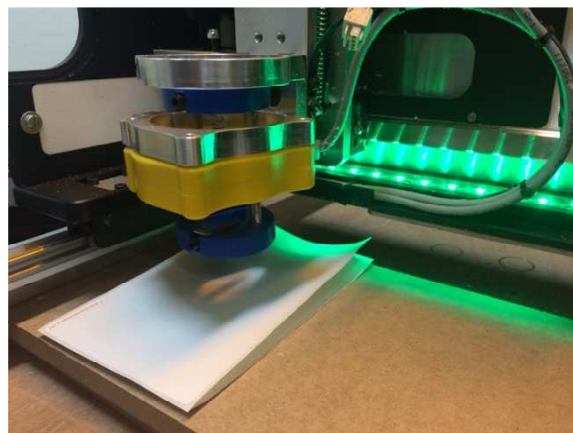
- 17** Snap the plotter pen holder into place on the same magnetic bracket.



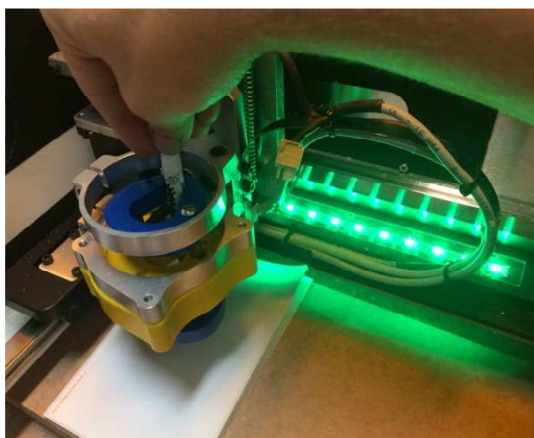
- 18** From the FabMo dashboard, send all axes to zero.



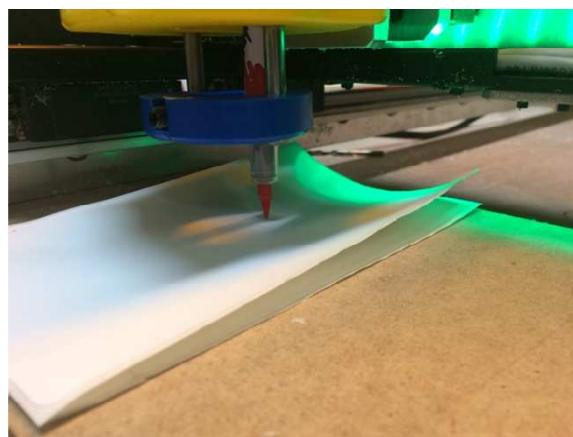
- 19** You may want to place a piece of scrap paper under the pen for zeroing



- 20** With the z axis set to zero, insert the pen that you would like to use.



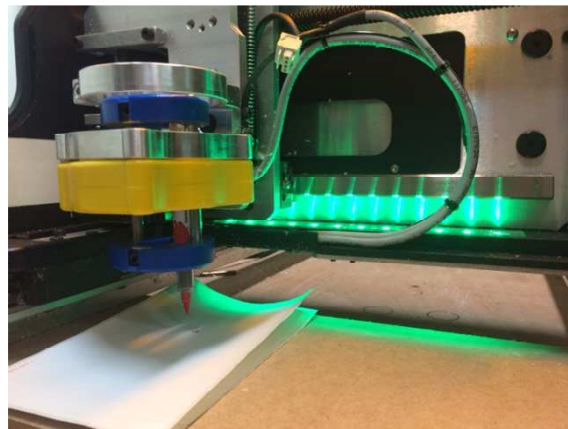
- 21** Allow the tip of the pen to rest gently on the drawing surface.



- 22** Using the included 3mm allen wrench, tighten the two set screws to clamp the pen in place.

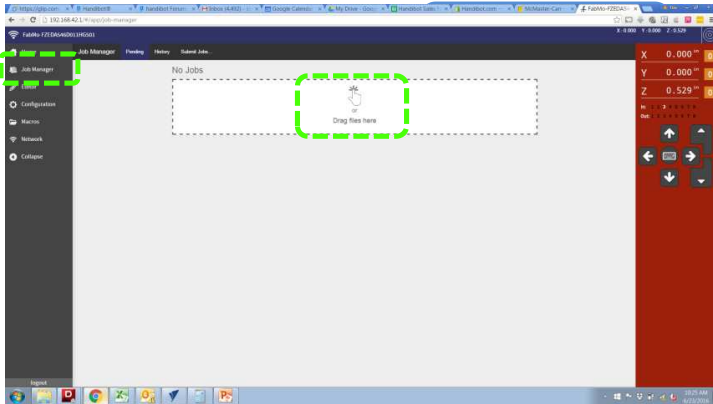


- 23** With the pen held tightly, move the Z axis up a bit so that you can get your paper out of the way.

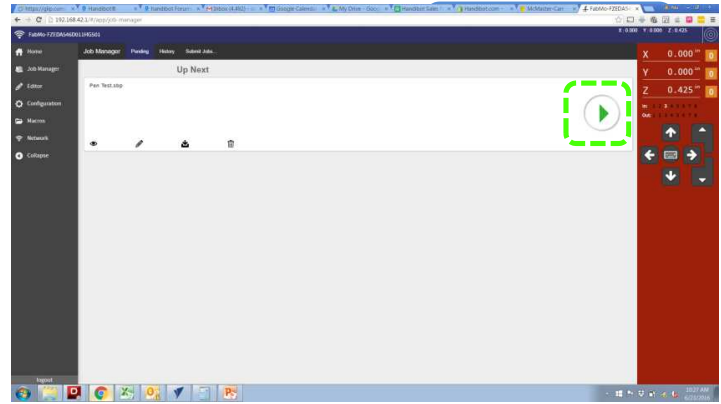




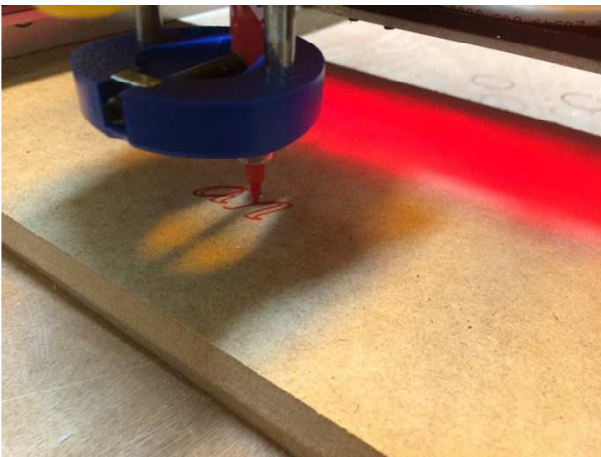
**24** Open the job manager to load your toolpath.



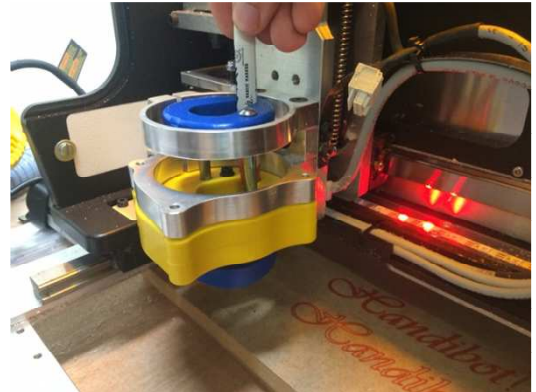
**25** Press the green “play” button to start your handibot.



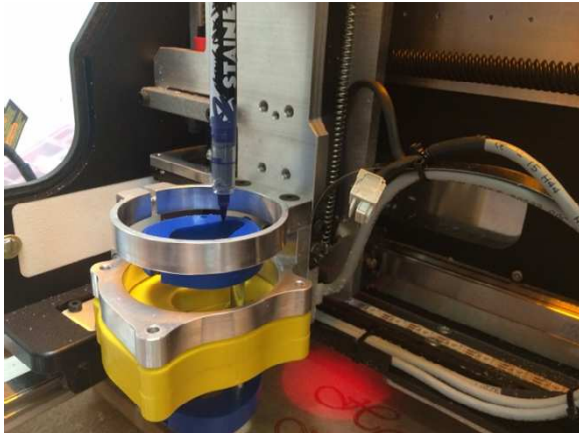
**26** Off we go!



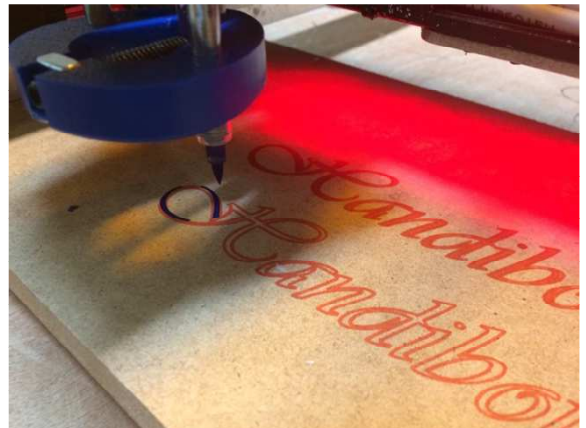
**27** I decide that I'd like to change the color of the pen for the outline of the text...with the tool moved back to home and the Z axis at zero, loosen the set screws and remove the pen



**28** Insert the new pen and allow it to drop until it is in contact with the drawing surface. Tighten the screws and raise the Z axis.



**29** Start your next toolpath...



30

Not sure about the color combination...but looks great!

