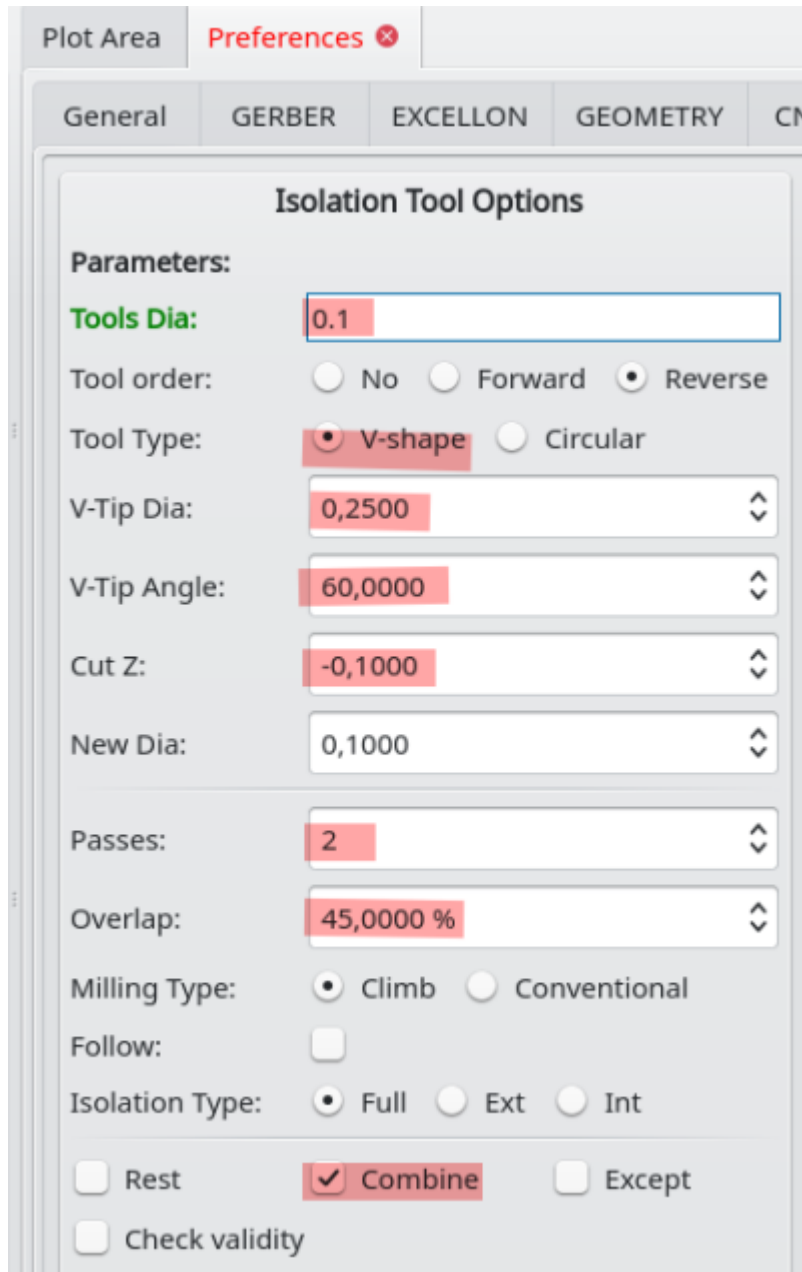


flatcam

setup flatcam



Cutout Tool Options

Parameters:

Tool Diameter: 2,0000

Cut Z: -2,0000

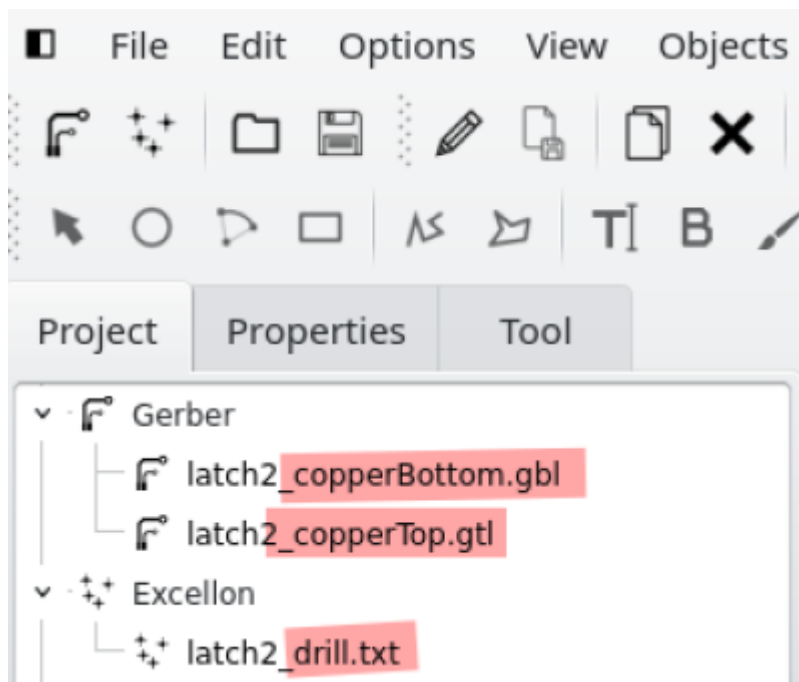
☒ Multi-Depth: 0,2000

Kind: ☒ Single ☐ Panel

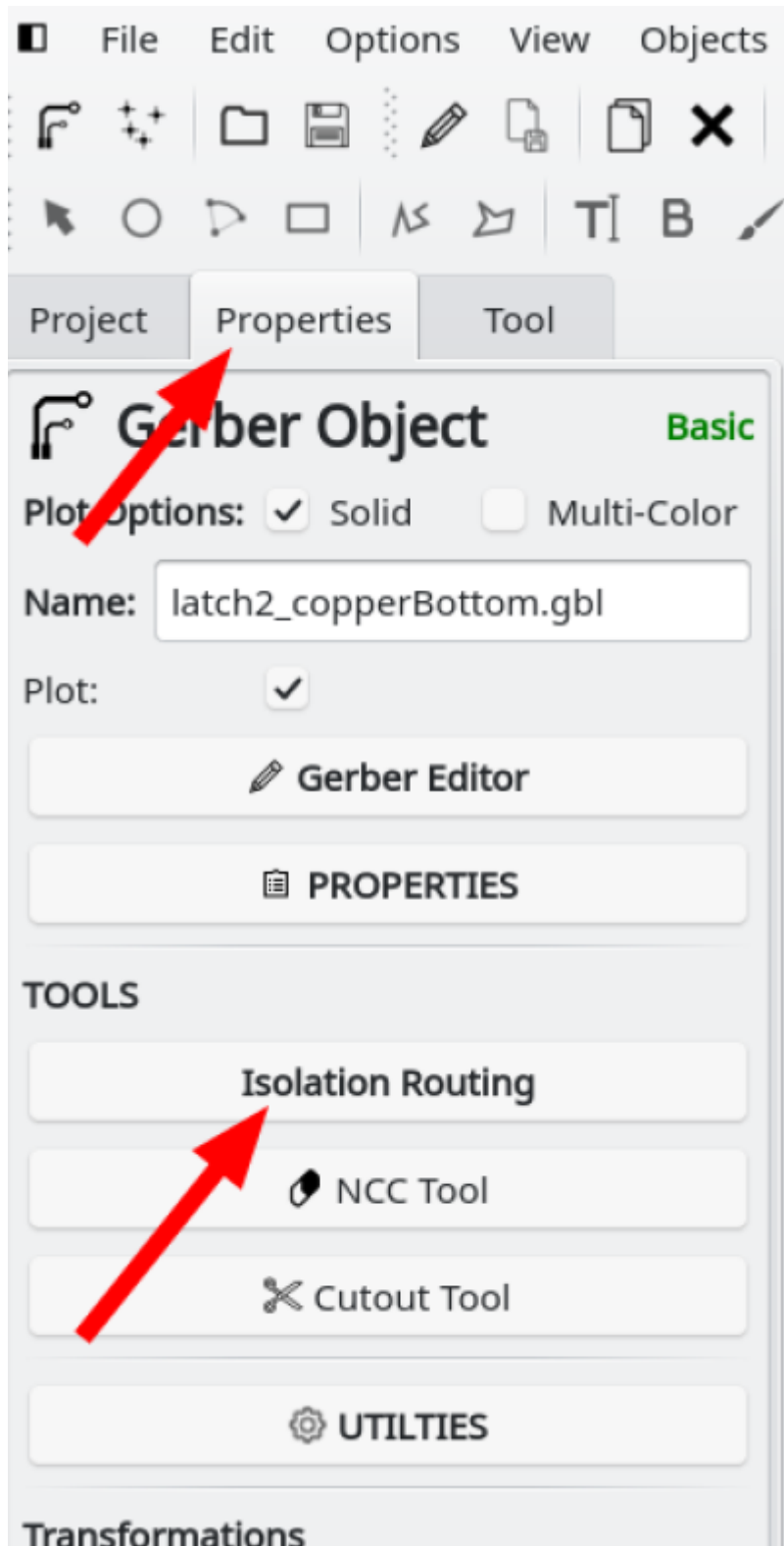
Margin: 0,1000

Gap size: 4,0000

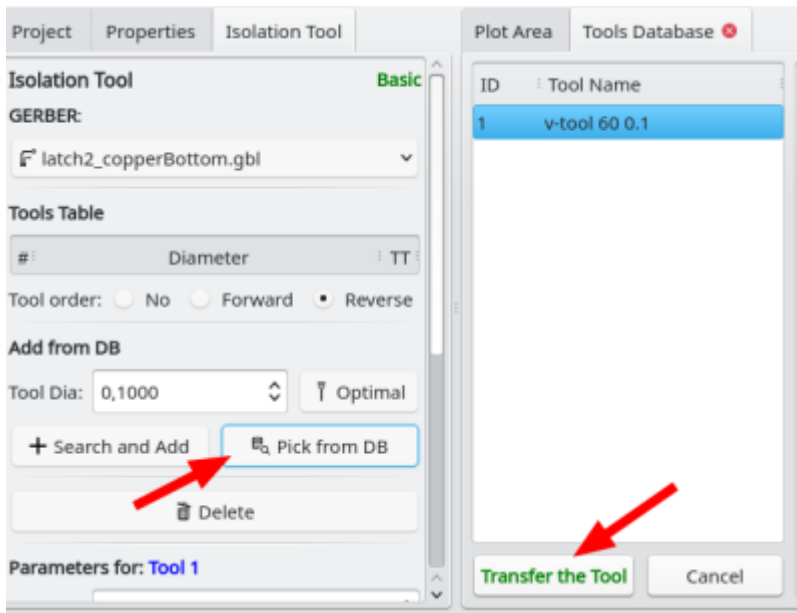
open gerber files (top and bottom if present) and excellon drill file



select copper top and



delete tool from tool table and 'pick from db'



deprecated

convert gerber to svg

Upload <name>_copperBottom.gbl to <https://tracespace.io>, select layers, download zip and extract <name>_copperBottom.gbl



Now with inkscape we need to process the complex SVG with multiples path, objects, layers, group, etc. to convert it into a single path simple SVG. You need to open your SVG into Inkscape (Open-Source, cross-platform), and perform the following series of commands:

- CTRL+A (Select all),
- CTRL+U (Ungroup),
- CTRL+ALT+C (Convert stroke to path),
- CTRL+A (Select all),
- CTRL+U (Union) and
- CTRL+SHIFT+R (Fit page to content).
- CTRL+S save

svg to gcode

Open [jscut](#):

- load SVG <name>_copperBottom.gbl
- make all mm ([link](#))
- zero lower left ([link](#))

- select all objets, drills and path
- create operation
 - outside, 0.1mm
- generate
- save gcode

edit gcode to set spindle speed to 8000 rpm and turn on it clockwise (after G90)

```
; after first G1  
M3 S5000
```

carbide3d

set spindle speed to 8000 rpm and turn on it clockwise (after G90)

```
G00 Z1.000  
M3 S10000
```

substitute G01 F400 with G01 F40

substitute G00 Z3.000 with G00 Z1.000

deprecated

- export your PCB as .svg files by clicking on “Export for PCB” on the bottom. Click on the small arrow on the Export button and select “Etchable (SVG)”. You will get a bunch of svg's exported in your selected directory but we will only use two of them:
 - yourfilename*_etch_copper_bottom_mirror.svg
 - yourfilename*_etch_mask_bottom_mirror.svg

From:
<https://wiki.csgalileo.org/> - **Galileo Labs**

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Last update: **2021/05/10 07:17**

