

HOW TO TURN ON THE MACHINE

On the control panel:

- Turn System to 'ON'
- Turn Laser to 'ON'
- Turn Shutter to 'OPEN'
- Turn Mode to 'MAINT'
- Fume collector to 'ON'

All the light should be on except for RUN MODE

On the wall:

• Turn on the main compressor (there's a small box on the wall with two blue caps and two red caps: the switches inside this box have to be up)

On the remote:

• SHIFT + HOME to home the machine (SHIFT is button № 20 and HOME is button № 1)

HOW TO CUT

1. Place your material on the bed of the machine. The X axis is the longer part of the laser cutter and the Y axis is the sorted one. Home (0,0,0) is on the lower left corner.

2. Set material thickness and surface height. Press SET SURFACE (button № 6) and ENTER (button № 30) and set the thickness of your material. The values are in millimeters. Press ENTER again, then button 0 and hold it until the sensor touches the surface to automatically set the height.

3. Set home. Move the machine with the arrow buttons 2, 4, 6, 8 and place it at the point where you want your zero. Press SET HOME (button № 11) and ENTER to set home for your file.

4. Set speed and power. In MENU (button № 15) choose Params_2d by pressing ENTER. Set speed (X Y feedrate) and power for your material according to the table.

5. Find your file. By pressing button № 16 you will enter the DNC files folder on the computer. Use the up and down arrows to find your file and choose it by pressing ENTER.

6. Start the job. Press GO (button № 10) twice.

7. If something goes wrong hit PAUSE to stop the machine (button № 5).

8. To continue press ENTER.

WHAT NOT TO DO

• Do not use materials that are not suitable for laser cutting! Ask the FabLab operators if you're not sure about your material.

• Do not stand on the side of the machine! Only in the front. The machine can move suddenly and quickly and can hit you.

- Do not continue cutting if something is going wrong! For example: if there is flame or a lot of smoke or it's not cutting or the material is melting. Pause the machine and call a FabLab operator.
- Do not change the material on the remote! It has to be "cardboard" always.

ADVANCED COMMANDS

- To make a test on a new material you can cut a small square or circle. Set the surface, set home on the place that you're not using, set speed and power that you want to try and then go to MENU, select Cut_utils, choose a square or any other shape, set dimensions and press GO.
- After you paused the cutting you can navigate with arrows and choose Params 2d to change any settings before continuing.
- If you need to adjust something while cutting: press PAUSE, then cancel the job, do whatever you need (reset the surface, move to continue from another place, etc.) Then to continue your cutting press SHIFT, GO, ENTER, GO.