

NYCCTfab

LASER CUTTING

Appropriate Laser Setting Tips

- When laser cutter is **Vector Cutting** the setting (Power/Speed) should not exceed, **POWER 90** and **SPEED 20**, as it risks cracking the lens and damaging the machine.
- Based on material being used, the **Power** and **Speed** should not exceed it's persetting.
- If persettings needs to be changed. Please consult with laser operator coordinator before making any changes.
- To locate the persetting you will go to **Desktop>Laser template>Laser settings >xxx (xxx will be the material type)**

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Power Setting

-Higher Power deeper it cuts. Too much power sacrifices details. Has no effect on running time.

Speed Setting

-High Speed saves time. Burns shallower and reduce detail. Lower Speed increases time, Burns deeper but too deep may reduce detail.

PPI Setting

-Higher settings increases burning and meltin.

-Produces finer detail if speed is not to fast.

-Has no effect on runing time and very little effect on depth.

-Lower settings descreases burning or melting.

-Reduces setting image detail, if set to low. Has no effect on running time and very little effect on depth. Very low setting are used to perforate the material.

Rules of Thumb

-Doubling the power doubles the depth and halving the depth. Halving the speed doubles the depth and doubling the speed halves the depth.