

Safety Instructions

General

- **ALWAYS SETUP AND TURN ON** the gas extractor and chiller (on the left side both switches)
- always wear safety gear (glasses)
- you don't want your material to melt -> higher chance for FIRE when stringing
- check the gas/steam emission when cutting
 - if too much gas/steam, adjust the settings (less power or more speed)
- know where the fire extinguisher is
- never leave laser while lasering and check from time to time/no headphones

No Go Materials

Don't use following materials:

Material	DANGER!!
PVC (Poly Vinyl Chlorid)/vinyl/pleather/artificial leather	Emits chlorine gas when cut ruin optics and corrodes metal!
Thick (>1mm) Polycarbonate/Lexan	Cuts very poorly, discolors, CATCHES FIRE!!! long stringy clouds on cutting -> will ruin optics and mechanics
ABS (Acrylonitrile butadiene styrene)	Melts instead of vaporize / Hydrogen Cyanide Gas on cutting -> UNSAFE
HDPE/ milk bottle plastic	Catches fire and melts
PolyStyrene/PolyPropylene Foam	CATCHES FIRE VERY EASILY!
Epoxy	can't cut -> burns/ smokes Cyanide!!
Fiberglass	Emits fumes (glass can only be etched and epoxy only smokes)
Coated Carbon Fiber	emits noxious fumes!! (carbon fiber can be cut, but not when coated)
Any Food	Not food-safe -> many toxic gases where in the laser for a longer time

Material	DANGER!!
Material With Sticky Glue Backing	Coats/ cracks lens when CUT; also hard to remove from the lens!

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