Rayjet 300 Laser Cutter

Rayjet 300

Tool Type: Laser cutter
Location: Innovation Workshop
Description: 80W laser cutter and engraver
Manufacturer: Trotec

About

One of two laser cutters, the Rayjet is located in the Innovations Workshop along with its stand alone fume extractor. Both laser cutters utilize CorelDraw as a 2D sketch manager which is then imported into Trotec's specific cutting software. CorelDraw can be used to create the 2D sketch, however importing a DXF file or PDF into CorelDraw from Solidworks or other CAD packages is preferred due the CAD packages integrated features and functions.

Safety Concerns

Looking directly into the laser can cause retinal damage. Confirm that the fume collection system is running whenever the laser is cutting or engraving. See list of approved materials for laser cutting, some require nitrogen gas if flammable, or could release chlorine gas if cut. NO NOT CUT NON APPROVED MATERIALS INCLUDING METALS. Laser lenses must be cleaned within ONE WEEK of time of use. If lenses has not been cleaned, clean before use to avoid damaging lenses.

Training Documentation

Laser Cutter Training SOP

Detailed Specifications

Working area: 726 x 432 mm / 29“ x 17”
Max height of work piece: 149 - 200 mm depending on installed lens (see operations manual page 7)

Reference Documentation

Laser cutting data

Operations Manual

Software Manual

Exhaust System Info

Laser Cutter Notes

Bonding Acrylic with Methylene Chloride