

Rayjet 300 150W Laser Cutter

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Tool Type: Laser Cutter

Location: Innovation Workshop

Supervisor	Tool Lead
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Description: 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

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](#)

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