

Crystalmark Etching Tool

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| Crystalmark |
| picture_of_crystalmark |
| Tool Type: Etching Tool |
| Location: Microfluidics Lab |
| Description: [SOMETHING] |
| Manufacturer: [SOMETHING] |

About

The CrystalMark Etcher is located in the Microfluidics Lab on the middle table by the Haas CNC in 3430. It is attached to the [Sherline CNC Diamond Drill](#).

It uses air pressure and aluminum oxide abrasive to cut or etch patterns in materials such as glass or silicon. The kerf of the cuts are 700 microns.

Patterns and pre-programmed holes can be uploaded via .dxf files to a program called **insert program here**, and holes can also be added manually.

Safety Concerns

Inhaling large amounts of aluminum oxide can be hazardous. It is recommended to wear a mask and eye protection when using the CrystalMark.

Training Documentation

[CrystalMark SOP](#)

Detailed Specifications

Build Volume: 14.5 x 14.5 x 17.5 cm (L x W x H)

X,Y Accuracy: ~150 ish microns

Layer Thickness: 25-300 microns

Printable Materials: Standard resin (clear or available colors), Durable resin, Flexible resin

Reference Documentation

https://support.formlabs.com/s/article/Design-Specs?language=en_US

[flexible_resin_sds_eu.pdf](#)

[formlabs_clear-sds.pdf](#)

[durable_resin_sds_eu.pdf](#)

[workshops_3d_printer_rates_112019_1_.pdf](#)

[Guide to printing with clear resin](#)

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