

3D Printing

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3D printing rules

Current inventory of filament

Training and Reference

3D-printing Reference and Training Information

General Design for 3D Printing

- <https://blog.rahix.de/design-for-3d-printing/>

Filament Characteristics and Usage

- ABS
- PETG
- PLA
- TPU
 - all3dp.com/2/best-tpu-print-temperature-bed-filament/
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Sources of 3D Printing Files

- makerworld.com/en (requires login to download)
- www.thingiverse.com

File Conversion

- Conversion of McMaster-Carr IGES files to STL: <https://www.xconvert.com/iges-converter>

Slicers

Misc. Links of Interest

- General
 - Big list of misc. tools for various 3D printing projects:
<https://www.mylasertools.com/?tags=3d-print>

- Lithophane-related
 - <https://tool.itslitho.com/CreateModel>

Filament drier

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Raise 3D Pro 3 Plus

The Makerspace's largest 3D printer, with two nozzels, can print two colors at once.

Requires IdeaMaker Slicer installed on Makerspace Laptops. Free download at

<https://www.raise3d.com/ideamaker/Text>

- Power on the printer; make sure
- Use the "Connect" button in the slicer UI to connect to the printer
- Upload the sliced file to the printer
- Use the "Connect" button to print the file from "local storage"

References

- [Raise 3D Pro 3 Series User Manual](#)

Sovol SV07 Plus

References

<https://www.sovol3d.com/pages/help-center>

<https://wiki.sovol3d.com/en/SV07>

[Sovol SV07 Plus manual.pdf](#)