

The [Ultimaker2+](#) is one of two 3D printers in the MakerPlace. It can print your 3D design, or a design you've found in a 3D design library, such as Thingiverse or TinkerCAD.

Specs:

- The Ultimaker Printer uses **Fused Deposition Modeling** (FDM) Printing Technology for **PLA** and **ABS** materials to form the three dimensional objects
- The build size maximum for the Ultimaker is 223mm x 223mm x 305 mm
- The nozzle's diameter is 0.4mm/1.75mm, which can heat up to a max 260 degrees celsius
- The Ultimaker prints to a layer resolution of 0.05mm - 0.3mm



Hardware:

- The Ultimaker2+ uses an SD card input for a file that has been converted (or sliced) in **CURA** for the Ultimaker
- The printer can handle files of .STL, .OBJ, .DAE, and .AMF, which are converted into .gcode files through **CURA**

Software:

- The Ultimaker uses the [Ultimaker CURA software](#) to slice a graphic image
- You can create your own 3D design on [SketchUp](#) or [TinkerCAD](#)
- You can also search for an existing model found on external databases such as [Thingiverse](#)

Watch this [Ultimaker2 Video](#) to find out more.

Use the library's [Lynda.com database](#) to learn how to use 3D design software and learn the basics of 3D printing.