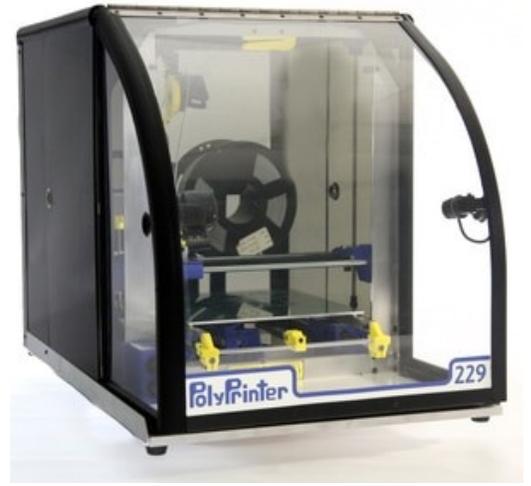


Polyprinter 229 3d Printer

3D printing is an exciting form of technology that is only limited by the size of your imagination. Printing fun figurines, jewelry, or prototypes for engineers and architects can all be done on our printer.

The PolyPrinter 229 is a fast, high-quality 3D printer able to reliably produce objects down to 50 micron (0.05mm) resolution. We utilize a customized KISSlicer application to generate the G-Code which learners upload to the Polyprinter unit to read and run the machine.

The PolyPrinter PolyPrinter 229 has a closed frame and a heated print bed. This 3D



Methods To Create Design Model

Use 3D design software programs - many are available from the Internet and are free

- Tinkercad – drop-and-drag solid modeling for beginners
- SketchUp – good for architecture, interior design
- Sculpttris – digital sculpting “from clay”
- FreeCAD – parametric modeling, good for engineering
- OpenSCAD – script-based modeling, good for machine parts
- Blender – advanced modeling for animation, art

Use a pre-existing design repository (Thingiverse, YouMagine, My Mini Factory). Look for free designs that have printed successfully many times and are copyright free

Submit Design Model To Print

Eligibility Requirements

- Computer use is limited to Cleburne Public Library card holders
- Patron brings design file in .STL on a flash drive and meets with staff
- Patron gives filename, expected dimensions of design and maximum budget amount
- Library returns flash drive after project is done

Printing Price: 20¢ per gram — \$1.00 minimum

Patron is notified when 3D print is ready for pickup. 3D print objects must be picked up by the patron who submitted the print request. 3D print objects and flash drives are held for 10 days after notification

Technical Specifications

3D print objects must be smaller than 8.75” by 8.75” by 8.75”

3D print objects are printed using fused filament fabrication (FFF) with ABS thermoplastic filament in a single selected color

3D print objects are printed by staff using a PolyPrinter 229

Design Guidelines

The Library reserves the right to refuse any 3D print request

The 3D printer may only be used for lawful purposes. 3D objects must not be intended for harm

3D objects must not infringe upon any third party’s intellectual property rights

The patron is responsible for object design. Staff will not modify designs submitted for printing. The patron will be notified if the design is unprintable