3D Printing Pen Maker Kit

Guide

The 3D printing pen is like a handheld 3D printer. This electronic pen heats and melts thin strands of plastic, allowing you to create three-dimensional shapes and designs by "drawing" on surfaces and in the air. **Because the tool's metal tip and plastic becomes extremely hot, the 3D printing pen is only intended for ages 14 and up.**

Using the 3D Pen

Make sure to read the user manual before beginning! This document details the different functions of the 3D printing pen as well as safety warnings you should be aware of before using. We recommend trying this general guide to get you started with the basic techniques used with 3D pens: http://www.instructables.com/id/3D-Printing-Pen-Tutorial/?ALLSTEPS

There are also some instructional videos on some fixable mistakes and troubleshooting, if you experience any issues using the tool. Here are a few videos from MYNT3D®:

- 4 Fixable Mistakes : https://www.youtube.com/watch?v=edoWQv78UdY
- Tips & Troubleshooting: https://www.youtube.com/watch?v=R2VHUbWvFVU&t=1s

Types of Plastic

The 3Doodler uses two types of plastic: PLA and ABS. Both have their advantages and disadvantages. We've included only PLA plastics because the plastic is readily available for us to purchase. See 3Doodler's chart to see how the different plastics compare here: https://www.mynt3d.com/blogs/projects/abs-vs-pla-filament-for-a-3d-printing-pen

PLA requires a lower heat setting, so make sure the 3D printing pen is under 190° C. If you'd like to supplement the filament strands in the kit, or try a different type of plastic, you can order strands directly from MYNT3D® or other online places like Amazon. You can also purchase additional filament rolls from the library, 3 for $1.

Starting Out

This tool gets very hot! You should never directly touch the metal tip of the 3D pen during or directly following use. Please let the tool cool completely before placing back in the box.

Try tracing two-dimensional designs first. This will allow you to get used to the tool's speed and flow before moving on to three-dimensions.

Secondary tools like scissors, wire cutters or even small pliers are helpful for handling and finishing designs. We've included some in the kit.

Consider having additional consumable materials like cardboard or cardstock on hand to take 3D designs to the next level!

Project Ideas

The MYNT3D® website has many projects with detailed photos, instructions, and videos. Find them here: https://www.mynt3d.com/blogs/projects

Feedback

We would love to hear how your experience was! Please consider sharing photos or videos of your experience with us on social media:

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