



HP Jet Fusion 580: Introduction

An explanation of the intended use of the HP and descriptions of machine layout and components.

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Introduction

The HP Jet Fusion 580 is an industrial-grade MJF printer intended for small scale production of functional parts. This guide will give you a brief overview of the machine's strengths, a description of the physical layout of the printer, and instructions on how users can interface with the HP.

Images by: HP, Nico Lagendyk

Step 1 — Advantages of the HP



- The HP is designed to produce accurate parts across many jobs giving high repeatability
- Produce full-color functional parts while maintaining optimal mechanical properties
- Achieve fine detail and high dimensional accuracy for small features
- Produce engineering-grade thermoplastic parts with optimal mechanical properties

Step 2 — What is Multi Jet Fusion Technology?



- HP Multi Jet Fusion technology offers control over part and material properties and speed advantages beyond those found in other 3D printing technology
- The process begins by depositing a thin layer of material in the printer's work area.
- Next, the carriage containing an HP Thermal Inkjet array passes over the full work area, printing chemical fusing, detailing, and coloring agents
- During another pass of the carriage, the work area is exposed to fusing energy, which bonds part layers together
- The process continues, layer-by-layer, until a complete part is formed

Step 3 — Machine Layout



- Insert wisdom here.

Step 4 — Switch power on



- Turn the main switch at the back of the printer to the on position
- *Press* the power button next to the control panel
- *Press* the blue rearming button when prompted by the machine

Step 5 — Switch power off



- *Press* the power button on the front panel
- Wait for the 3 LEDs on the back of the machine to turn off
- Turn the main switch to the power off position

Step 6 — Navigating User Interface



- The front panel is straight forward and should be easily navigable
- On the main screen you have three options: Jobs, Maintenance, and Build Status
 - The Jobs page is a queue of all the uploaded builds
 - The Maintenance page is an overview of all the consumables on the printer from agents to filters
 - The Build Status page is only relevant when the printer is running and it will give you detailed information on the status of the build
- On the bottom ribbon you can select the 3x3 squares to bring up even more options
 - Here is where you can access maintenance tasks and perform print diagnostics