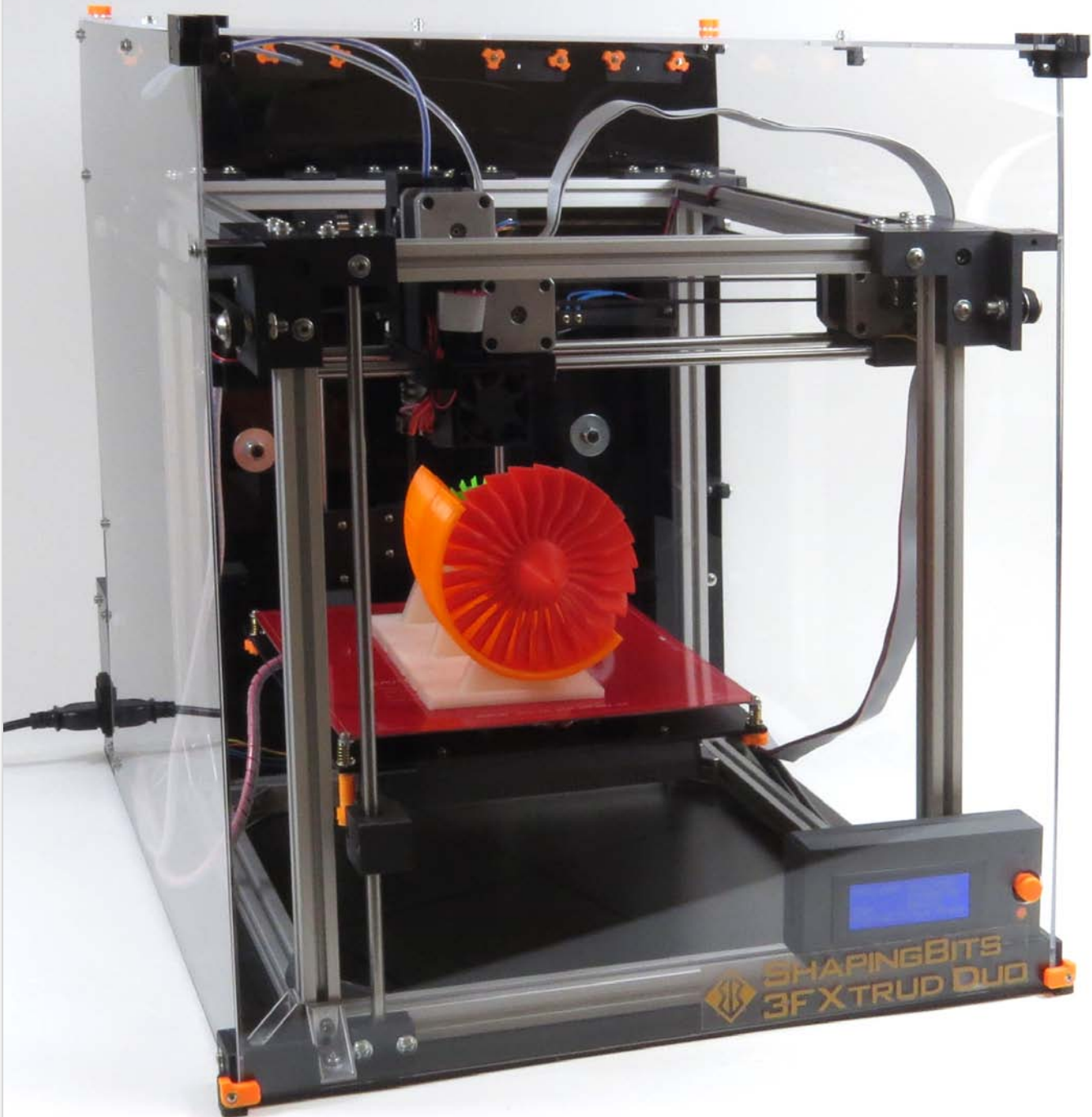


SHAPINGBITS



3FXTRUD DUO
MULTI-MATERIAL & DUAL EXTRUDER 3D PRINTER



COMPLETE FEATURE LIST SHAPINGBITS 3FXTRUD DUO

Covers model size 20, 25, and 30

1 Overview

3FXtrud Duo is a dual extruder, true free-form fabrication 3D printer with advanced features for 3D printing of the largest variety of engineering thermoplastic materials, a tool for professionals wanting the most capability within one system. It builds functional objects with material properties matching your applications. High-strength, flexible, rubbery, renewable or dissolvable parts can all be 3D printed with our universal extruder system. It can print FDA approved materials.

2 Multi-material universal extruder

- All metal construction excels at printing the largest range of thermoplastics, from renewable to specialty engineering grade thermoplastics.
- Specifically designed to print thermoplastic materials with very different physical properties, from soft and compressible (rubbery) to hard and high strength, and from low to high temperature melting.
- operates to 320 °C standard, and can be upgraded to water cooling for extended range to 460 °C.

3 Heated bed and removable surface

- A high temperature 130 °C heated bed for improved adhesion and to prevent warping for the largest range of thermoplastic materials.
- Universal printing surface: a very smooth, flat, and removable glass build surface which works for many materials in conjunction with water dissolvable coating.
- removable high temperature glass bed allows for easier process control and higher throughput.

4 Fully enclosed build volume

- A fully enclosed build volume that eliminates air drafts and provides a stable air temperature profile thus minimizing interlayer stress in the built object for stronger parts.
- **Particle and activated carbon air filter with air temperature homogenizer upgrade:** particles and odor free operation and uniform temperature profile for the enclosure.
- **Closed loop air temperature conditioner upgrade** for extended enclosure air temperature range.

5 True free-form fabrication

True Free-Form Fabrication (3F) can be achieved when any shape can be printed. 3FXtrud Duo uses a multi-material dual extruder thus can print a large number of thermoplastics along with any two combinations of such materials. With 3FXtrud Duo you can print any 3D geometry with overhangs, bridges, internal spaces with internal objects, all possible by using dissolvable support materials.

6 High resolution & high quality

long life operation with down to 20 micrometers layer height resolution.

- stiff and dimensionally stable aerospace aluminum alloy frame.
- linear motion with high quality hardened steel rails and precision bearings; high precision Z motion.
- high power and high resolution stepper motor controllers.
- easy bed alignment with visual bed level indicator.
- easy nozzle replacement and alignment.
- USB and standalone printing.

4 Open software

- easy 3D printing for supported materials with provided standard settings.
- open software is a proven technology developed collaboratively. It allows you to benefit fully of the newest developments, and gives you full control over the 3D printing process.
- Multi-software compatible: freedom to use any number of 3D printing software: [Repetier-host](#), [Slic3r](#), [Printrun](#), [MatterControl](#) etc.

5 Open filament

Open filament gives you the freedom to experiment with any number of materials and you are free to choose and experiment with the newest materials as they come to the market. This is an investment in the future. We have an ever expanding selection of supported materials with standard settings for fast setup and easy 3D printing!

6 ShapingBits support

ShapingBits support is ready to help

We are available online six days a week to help ShapingBits 3FXtrud owners with their additive manufacturing projects, from hardware and software use to general 3D printing guidelines.

info@shapingbits.com [Mon–Sat, 9 AM–6 PM MST].

Videos and technical data @ www.shapingbits.com

