Raise3D Forge1Technical Specifications

Raise3D Forge1 is a metal FFF printer which allows the use of dual materials and achieves a smooth surface finish, providing high progress for assembly and the ability to reliably handle batch printing. Raise3D Forge1 printers are cost-effective to build a print farm to manufacture parts on demand.

Printer	Raise3D Forge1			
Build Volume (W × D × H)	Single Extruder Print		Dual Extruder Print	
	300 × 300 × 300 mm (11.8 × 11.8 ×	11.8 inch)	255 × 300 × 300 mm (10 × 11.8 × 11.8 inch)	
Machine Size (W × D × H)	620 × 626 × 1390 mm (24.4 × 24.6 × 54.7 inch)			
Net Weight	80.55 kg (177.58 lbs)			
Electrical	Power Supply Input Power Supply Output	100-240 V AC, 50-60 Hz 230 V @3.3 A 24 V DC, 600 W		
General	Print Technology Print Head System Filament Diameter XYZ Step Size Print Head Travel Speed Build Plate Max Build Plate Temperature Heated Bed Material Build Plate Leveling Filament Run-out Sensor Layer Height Nozzle Diameter Max Nozzle Temperature Connectivity Noise Emission (Acoustic) Operating Ambient Temperature	Fused Filament Fabrication (FFF) Dual-head with electronic lifting system 1.75 mm 0.78125, 0.78125, 0.078125 micron 30-150 mm/s Glass Build Plate 120°C Silicone Auto-Leveling Available 0.1-0.25 mm 0.4 mm (Default), 0.2/0.6 mm (Available) 300°C Wi-Fi, LAN, USB port, Live camera < 55 dB (A) when building 15-30°C, 10-65% RH non-condensing -25°C to +55°C, 10-90% RH non-condensing		
Material	Material Type	Metals (Ultrafuse [®] 316L, Ultrafuse [®] 17-4PH) ¹ Support layer material: aluminum oxide (Ultrafuse [®] Support Layer) ²		
Software	Slicing Software Supported File Types Supported OS Machine Code Type	ideaMaker for Metal STL/ OBJ/ 3MF/ OLTP Windows GCODE		
Printer Controller	User Interface Network Power Loss Recovery Screen Resolution Motion Controller Logic Controller Memory Onboard Flash OS Ports	7-inch Touch Screen Wi-Fi, Ethernet Available 1024 × 600 Atmel ARM Cortex-M4 120 MHz FPU NXP ARM Cortex-A9 Quad 1 GHz 1 GB 16 GB Embedded Linux USB 2.0 × 2, Ethernet × 1		

1. Metal materials are used to print parts and supports.

2. The support layer material can't be printed on its own and is only used for layer isolation, allowing for good separation between the support and the prints after sintering.

This product is intended exclusively for sales, distribution, and use within the European Union, Albania, Iceland, Liechtenstein, Monaco, North Macedonia, Norway, San Marino, Serbia, Switzerland, Turkey, and the United Kingdom, and is only available for customers located in those countries.

