

Raise3D Pro3 HS Series Technical Specifications

The Raise3D Pro3 HS Series is a powerful professional-grade machine that builds upon the various performance improvements introduced on Raise3D's flagship Pro3 Series. It improves on printing speed, production efficiency and reliability. Equipped with Hyper FFF[®] technology, the Pro3 HS Series can now provide leading high-speed printing for composite materials to meet even the most advanced requirements. The newly added closed-loop stepper motor enables more precise high-speed printing without losing steps.

The new auto filament switching function and supports 2.5 kg filament spools, with the goal of providing general manufacturers and print farms with the ability to produce small batches efficiently and reliably, whether they're end-use parts or tooling fixtures.

Printer	Raise3D Pro3 HS		Raise3D Pro3 Plus HS		
Build Volume (W × D × H)	Single Extruder Print	Dual Extruder Print	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)	300 × 300 × 605 mm (11.8 × 11.8 × 23.8 inch)	255 × 300 × 605 mm (10 × 11.8 × 23.8 inch)
Machine Size (W × D × H)	620 × 626 × 760 mm (24.4 × 24.6 × 29.9 inch)		620 × 626 × 1105 mm (24.4 × 24.6 × 43.5 inch)		
Weight	Net Weight	Gross Weight (Carton with Pallet)	Net Weight	Gross Weight (Carton with Pallet)	
	54 kg (119 lbs)	75.7 kg (166.9 lbs)	64 kg (141 lbs)	88.7 kg (195.5 lbs)	
General	Print Technology Print Head System Filament Diameter XYZ Step Size Max Printing Speed Build Plate Build Plate Leveling Heated Bed Material Heated Bed Max Temperature Nozzle Diameter Max Nozzle Temperature Layer Height Automatic Filament Switching RFID Sensor Filament Run-Out Sensor Filter Eve Smart Assistant Connectivity Noise Emission Operating Ambient Storage Temperature	Fused Filament Fabrication (FFF) Dual-head with Electronic Lifting System 1.75 mm 0.78125, 0.78125, 0.078125 micron 500 mm/s Flexible Steel Plate with BuildTak Mesh-leveling with Flatness Detection Silicone 120°C 0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available) 320°C The Pro3 HS Series is compatible with 0.2, 0.4, 0.6, 0.8 and 1.0 mm nozzles, and the layer height can vary between 0.05-0.6 mm. To achieve stable print results, when using 0.4 mm nozzles, we recommend using a layer height between 0.1-0.3 mm. Available Available Available HEPA Filter with Activated Charcoal Available Wi-Fi, LAN, USB port, Live Camera < 55 dB (A) While Printing 15-30°C, 10-90% RH, non-condensing -25°C to +55°C, 10-90% RH, non-condensing			
Electrical	Power Supply Input Power Supply Output	100-240 V AC, 50/ 60 Hz 230 V @ 3.3 A 24 V DC, 600 W			
Material	Material Type Third Party Material	Hyper Core: PPA CF/ PPA GF/ ABS CF Hyper Speed: PLA/ ABS Industrial: PPA CF/ PPA GF/ PET CF/ PET GF/ PETG ESD/ PET Support/ PPA Support Premium: PLA/ ABS/ ASA/ PETG/ PC/ TPU-95A/ PVA+ Supported by Raise3D OFF (Open Filament Program)*			
Software	Slicing Software Supported File Types Supported OS Machine Code Type	ideaMaker STL/ OBJ/ 3MF/ OLTP/ STEP/ STP/ IGES/ IGS Windows/ macOS/ Linux 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			

*For detailed information and slicing profiles of the materials supported by Raise3D OFF, please visit <https://www.ideamaker.io/>.