

# 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. With Hyper FFF® technology, it offers high-speed printing for composite materials. The new auto filament switching function and supports 2.5kg filament spools, with the goal of bestowing general manufacturers and print farmers 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 Fused Filament Fabrication (FFF) Print Head System Dual-head with Electronic Lifting System Filament Diameter 1.75 mm XYZ Step Size 0.78125, 0.78125, 0.078125 micron Standard Printing Speed 300 mm/s Build Plate Flexible Steel Plate with BuildTak Build Plate Leveling Mesh-leveling with Flatness Detection Heated Bed Material Silicone Heated Bed Max Temperature 120°C Nozzle Diameter 0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available) Max Nozzle Temperature 320°C Layer Height 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. Automatic Filament Switching Available (Coming Soon) RFID Sensor Available (Coming Soon) Filament Run-Out Sensor Available Filter HEPA Filter with Activated Charcoal Eve Smart Assistant Available Connectivity Wi-Fi, LAN, USB port, Live Camera Noise Emission < 55 dB (A) When Building Operating Ambient 15-30°C, 10-90% RH, non-condensing Storage Temperature -25°C to +55°C, 10-90% RH, non-condensing			
Electrical	Power Supply Input	100-240 V AC, 50/ 60 Hz 230 V @ 3.3 A		
	Power Supply Output	24 V DC, 600 W		
Material	Material Type	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+ Third Party Material Supported by Raise3D OFP (Open Filament Program)*		
Software	Slicing Software	ideaMaker		
	Supported File Types	STL/ OBJ/ 3MF/ OLTP/ STEP/ STP/ IGES/ IGS		
	Supported OS	Windows/ macOS/ Linux		
	Machine Code Type	GCODE		
Printer Controller	User Interface	7-inch Touch Screen		
	Network	Wi-Fi, Ethernet		
	Power Loss Recovery	Available		
	Screen Resolution	1024 × 600		
	Motion Controller	Atmel ARM Cortex-M4 120 MHz FPU		
	Logic Controller	NXP ARM Cortex-A9 Quad 1 GHz		
	Memory	1 GB		
	Onboard Flash	16 GB		
	OS	Embedded Linux		
	Ports	USB 2.0 × 2, Ethernet × 1		

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