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
	Noize 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/.