Raise3D **Pro3** HS **Series**

## **Beyond Speed:** 3D Printing Large Composite Parts Made Simple

The Raise3D Pro3 HS Series is a powerful professional-grade 3D printer that builds upon the Pro3 Series with integrated Hyper FFF® technology. It features leading speeds for printing composite materials with high efficiency and reliability. The upgraded motion control system with a closed-loop stepper motor further improves the precision and accuracy of high-speed printing, making it ideal for printing demanding industrial applications with minimal manual intervention.

High Speed Printing with High-Performance Composite Materials

Enhanced Accuracy for Industrial Applications

Longer-Lasting Reliability and Durability

Maximize Production Efficiency with Minimal Manual Intervention

RAISE3D Pro3 HS

RAISE3D Pro3 Plus HS
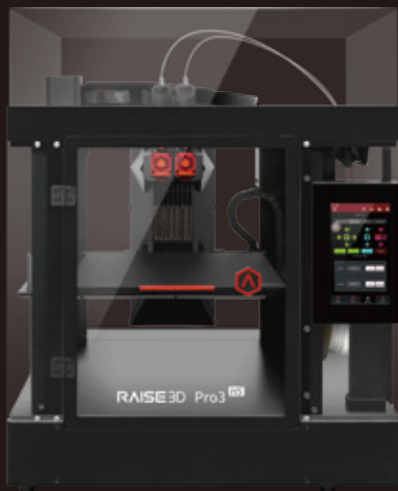
- Built-in Hyper FFF® Technology
- New Printing Build Plate
- 2.5kg Large Roll Storage Boxes*

  *2.5kg filament box needs to be purchased separately.

- Motion Control Upgrade with a Closed-Loop Motor
- New RFID Filament Sensor
- Auto Filament Switching

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℃
Nozzle Diameter	0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available)
Max Nozzle Temperature	320℃
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) While Printing
Operating Ambient	15-30℃, 10-90% RH, non-condensing
Storage Temperature	-25℃ to +55℃, 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/.