

Raise3D E3

Elastic, Engineering-grade, Expandable

The Raise3D E3 IDEX printer delivers precise, stable, and fast prints of up to 200 mm/s for composite materials and TPU, perfect for prototyping and end-use part production. Built for diverse manufacturing needs, the E3 features the Flexible Filament Auxiliary Feeder and composite filament print head, suited for printing TPU, composite materials, and parts with specific surface finishes. Reshape the boundaries of manufacturing with the E3: Elastic, Engineering-grade, Expandable.



Faster, More Reliable Printing of Flexible Filaments, with Broader Compatibility



Engineered with Performance in Mind for Composite Filaments



Efficient and Stable Production



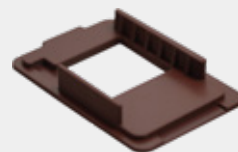
Convenient Printing Experience to Boost Creativity





Flexible Filament Auxiliary Feeder

The E3 is compatible with Raise3D's Flexible Filament Auxiliary Feeder. The higher TPU feed rate enables the E3 to print high-quality TPU parts at up to 200 mm/s. The Flexible Filament Auxiliary Feeder also expands E3's compatibility with more flexible and elastic materials.



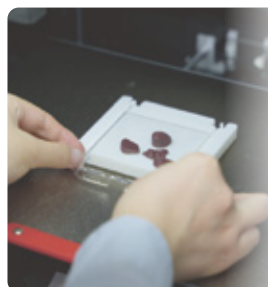
Pro Ironing

Experience ultra-fine surface finish prints with the new Pro Ironing feature. This delivers an improved surface quality comparable to injection molding, with an average roughness (Ra) of less than 2 μm .



IDEX

The E3 is an IDEX 3D printer that supports multiple print modes including mirror mode, duplication mode, dual-color, and dual-material printing. The E3 can double production output by printing identical models simultaneously, maximizing efficiency and throughput.



Auto Bed Leveling and Substrate Printing

The E3 uses a sensor to measure the distance at various locations between the nozzle and the print bed to ensure optimal spacing for a higher success rate. With the addition of the 9-point leveling system to the E3, substrate printing now enables unlimited creativity on flat surfaces.

Build Volume (W × D × H)	Single Extruder Print		Dual Extruder Print	
	330 × 240 × 240 mm (13 × 9.4 × 9.4 inch)		295 × 240 × 240 mm (11.6 × 9.4 × 9.4 inch)	
Machine Size (W × D × H)	607 × 596 × 465 mm (23.9 × 23.5 × 18.3 inch)			
General	Print Technology	Fused Filament Fabrication (FFF)		
	Print Head System	IDEX Independent Dual Extruders		
	Filament Diameter	1.75 mm		
	Max Printing Speed	200 mm/s		
	Max Volumeric Speed	16 mm³/s		
	Build Plate	Flexible Double-sided PEI Build Plate (Default), Flexible Steel Plate with BuildTak (Available)		
	Build Plate Leveling	Mesh-leveling with Flatness Detection		
	Heated Bed Material	Silicone		
	Max Build Plate Temperature	110°C		
	Nozzle Diameter	0.4 mm (Default), 0.2/ 0.6/ 0.8/ 1.0 mm (Available)		
	Max Nozzle Temperature	330°C		
	Filter	HEPA Filter with Activated Charcoal		
	Connectivity	Wi-Fi, LAN, USB port, Live Camera		
Noise Emission (Acoustic)	< 50 dB (A) When Building			
Operating Ambient Temperature	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 @ 2 A		
	Power Supply Output	24V DC, 350 W		
Material	Raise3D Material	Hyper Core: PPA CF/ PPA GF/ ABS CF Hyper Speed: PLA/ ABS/ PETG CF/ PET CF/ PLA Pro Industrial: PPA CF/ PPA GF/ PET CF/ PET GF/ PETG ESD/ PET Support/ PPA Support/ PPS CF/ PA12 CF+		
	Flexible and Elastic Material	Premium: PLA/ ABS/ ASA/ PETG/ PC/ TPU-95A/ PVA+ When equipped with the Flexible Filament Auxiliary Feeder, the E3 is compatible with TPE (TPU, TPE-A, TPE-S, TPE foam filaments, etc.), Shore (A) hardness between 95A and 80A (e.g. TPU-95A, 90A, 80A), as well as all Shore (D) hardness filaments.		
Software	Slicing Software	ideaMaker		
	Supported File Types	STL/ OBJ/ 3MF/ OLTP/ STEP/ STP/ IGES/ IGS		
	Machine Code Type	GCODE		
Printer Controller	Network	Wi-Fi, Ethernet		
	Memory	2 GB		
	Onboard Flash	16 GB		
	Ports	USB 2.0 × 2, Ethernet × 1		