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SHINING 3D®

AccuFab-L4K

High-Precision Resin 3D Printer

A high-precision resin 3D printer that improves prototyping efficiency and shortens the new product development lifecycle.



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AccuFab-L4K

AccuFab-L4K is a high-precision resin 3D printer independently developed by SHINING 3D. With the help of 4K resolution and 192 x 120 x 180 mm print size, AccuFab-L4K produces extraordinary print results with high fidelity while achieving continuous and stable operation. AccuFab-L4K is your ideal choice to meet most prototyping, engineering, and small volume production needs.

HIGH PRECISION

4K

HIGH RESOLUTION

HIGH FIDELITY

MULTIPLE ENGINEERING MATERIALS

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Unparalleled Accuracy



Accurate Precise

IT7- level printing accuracy, to ensure the printing size is consistent with the design size.

Outstanding Uniformity

High luminance uniformity achieves up to 90%.

Beyond the Limits

Provides not only the possibility to obtain features smaller than a pixel, but also a superior surface finish.

Reliable Performance

State-of-the-Art Robustness

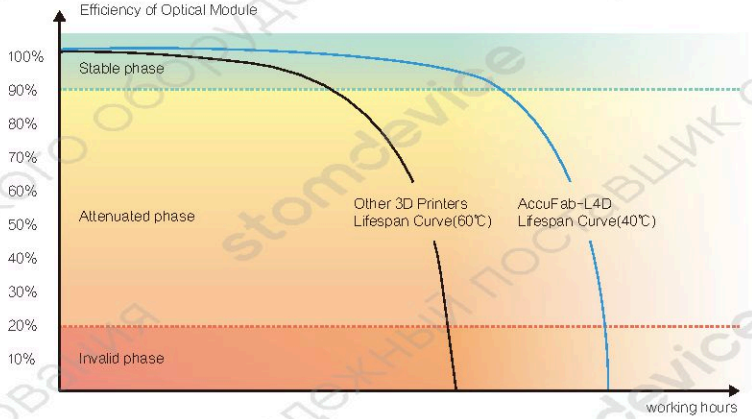
AccuFab- L4K's 5 million layers tested in real engineering condition provides state- of- the- art reliability.

District Cooling System

DCS (District Cooling System) maintains the temperature of optical system under 40℃, while extending the 3D printer lifespan significantly.

Industrial Grade Components and Quality Inspections

Assembly production adopts industrial-grade components, passed 21 strict factory inspections, to ensure the high quality of the factory equipment.

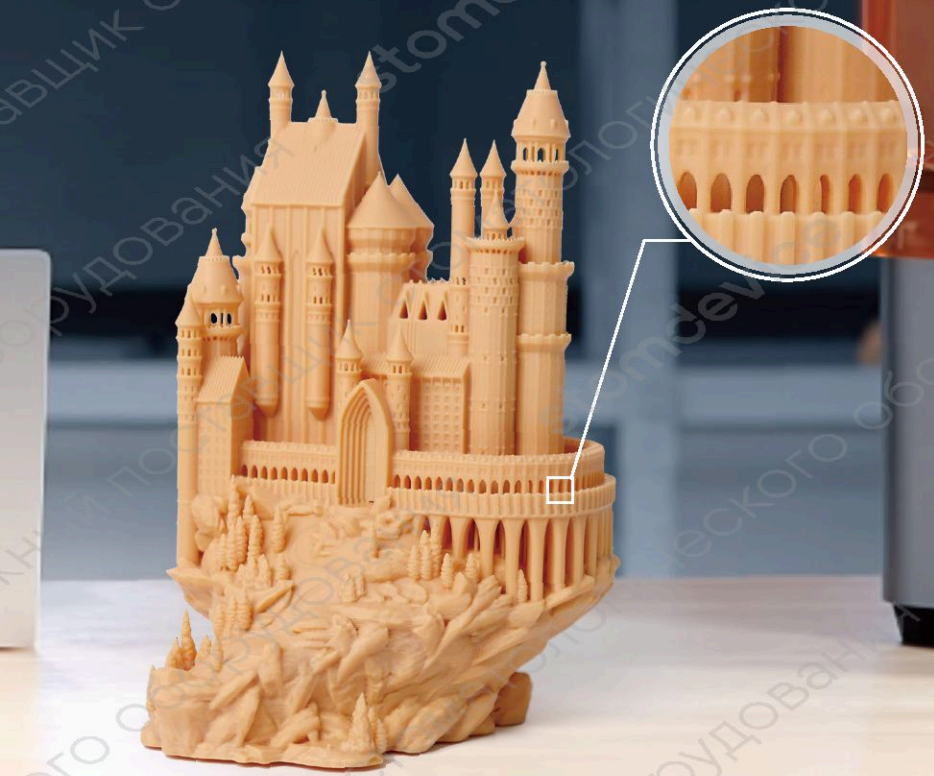


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4K Resolution

4K resolution satisfies the demands of users for efficiency and details.





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Large Print Size

Large format, rapid prototyping, highly efficient printing.

Multiple Material Options

Shining Engineering Resin

Shining Engineering covers a wide range of materials for engineering 3D printing applications, includes Standard Resin, Bio-compatable Resin and Water Washable Resin, provides great size accuracy, surface quality, and low deformation rate.

Certified 3rd Party Material

Shining 3D partners with industry leading brands in engineering material, providing more possibility and flexibility.



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Professional Software

Plug and Play

The guided interactive operation provides gentle learning curve, low learning costs.

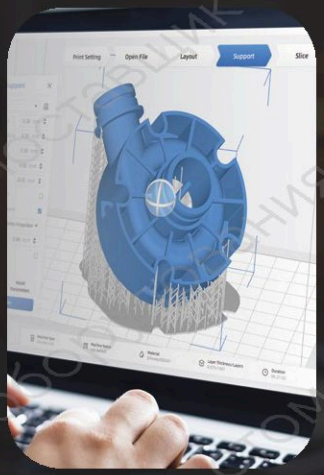
Free Updates

Push update of software and material packages.

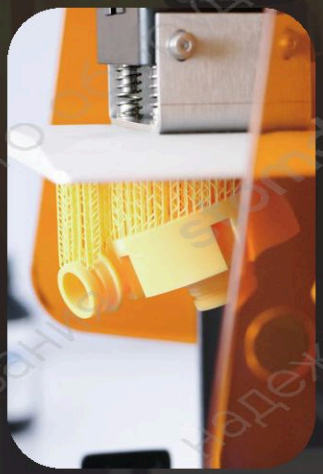
Collaborative Management

Multi-equipment collaborative management, achieve rapid production in small batches.

Data preparation | Add material | Print | Post-process









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APPLICATIONS

SHINING 3D provides a wide range of engineering resin options to meet diverse quality requirements, creating diverse application scenarios for AccuFab-L4K high-precision resin 3D printer.

Standard Resin

Standard resin is a stable and high-performance standardized resin. It has great size accuracy as well surface quality, which is great for displaying details of the prints. It meets most prototyping, engineering, and low volume production needs.



Water Washable Resin

It' s an environment-friendly low odor resin, which is easy to clean by water. There is no worry about the dangerous by using alcohol or IPA. Water Washable resin has high surface quality, strong mechanical properties and good stability.



Rigid Resin

They are specifically engineered to deliver class-leading tensile strength and rigidity, as well as high print accuracy with low shrinkage, and to ensuring the long-term UV stability of printed parts. These prints have low water uptake and are easy to polish.



Durable Resin

Durable Resin can accept certain pressure without damaging the structure, suitable for engineering prototypes that need to withstand pressure or tension temporally. This is the right choice for Tough resin applications where a limited degree of impact adsorption and compression, low-stress bending and elasticity is required to avoid brittle fracturing.



Flexible Resin

Flexible resin with fine softness and good elastic feature, can simulate the deformation scenarios of different products during actual use. It deliver high elongation at break, combining high cushioning with long-term rebound and torsional strength thanks to their minimal structural degradation over time.



Medical Resin

Self-developed resin with medical equipment certification record, suitable for the printing of entry-level medical-related and medical aids products. i,e. wrist guards, orthodontic models.



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TECHNICAL SPECIFICATION

AccuFab-L4K

Optical Spec	Resolution	3840 × 2400
	Pixel Size	0.05 mm
	Wavelength	405 nm
	Light Intensity	3 mw/cm^2
	Light Source	UV LED + LCD
Print Spec	Print Size	192 mm × 120 mm × 180 mm
	Print Speed	10 ~ 50 mm/h
	Tolerance	± 0.05 mm
	Layer Thickness	0.025 / 0.05 / 0.075 / 0.1 mm
Environment Spec	Working Temperature	20℃ ~ 30℃
	Working Humidity	30% ~ 70%
Others	Interface	5" touch screen
	Connection	Wi-Fi/Ethernet/Thumdrive
	Weight	19 kg
	Printer Dimensions	360 mm × 360 mm × 530 mm
Available Materials	SHINING 3D Engineering Material	White Material: TR01、S1; Yellow Material: DM12; Transparent Material: SG01; Black Material: S2; Washable Material: W1
	BASF Engineering Material	Durable Material: ST45、ST80; Rigid Material: RG35、RG50; Flexible Material: FL60、EL150
	Third Party Certified Resin	Third party resin materials approved by SHINING 3D, also can be used in AccuFab-L4K High-Precision Resin 3D Printer

Obtained CE, RoHS, WEEE, FCC, Photobiological Safety International Certification

Notice: SHINING 3D reserves the right to explain any alteration of the specifications and pictures.

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