

STEREOLITHOGRAPHY 3D PRINTER

SLA300 / 450-DLC



PROTOFAB™
BEYOND DIMENSIONS

PRECISION BENCHMARK

www.3dprotofab.com

TRUE TO CAD ACCURACY AND SURFACE FINISH

Fabricates small and medium-sized parts up to 300 x 300 x 300 mm and 450 x 450 x 300 mm respectively with 0.05 mm accuracy, the highest among our printers, and with surface roughness as low as 0.05 µm. These standard tolerances outperform those of injection-molding and can even compete with CNC.

PRECISE & COMPACT

The perfect choice for enabling 3D printing in environments with limited workspace. The highly stable printing platform with granite reinforcement and an aerospace-grade aluminum Z-axis module make quick and efficient prototyping virtually effortless.

OUTSTANDING PRINTING SPEEDS

Equipped with a top of the line galvanometer optical system by ScanLab Germany, the SLA300/450 displays top scanning speeds and enhances production efficiency significantly.

WIDE CHOICE OF MATERIALS

A selection of over 10 different custom-designed printing materials with unique characteristics for functional prototypes and low-volume manufacturing.

MADE TO MEASURE CUSTOMIZATION

We offer a considerable selection of customizations free of charge. Available upgrades include autofocus, automatic material refilling, environment sensors, as well as remote diagnostics and control, ensuring you are industry 4.0 ready.



TECHNICAL DATA SHEET

Model	SLA300-DLC	SLA450-DLC
Build Size (xyz) ¹	300 x 300 x 300 mm (11.81 x 11.81 x 11.81 in)	450 x 450 x 300 mm (17.72 x 17.72 x 11.81 in)
Printing Speed	70 - 140 g/h (Single Scanner)	75 - 150 g/h (Single Scanner)
Scanning Speed	6.0 m/s (Recommended) 10.0 m/s (Maximum)	
Accuracy	Part Size < 100 mm (3.9 in): ±0.1 mm (±0.004 in)	Part Size ≥ 100 mm (3.9 in): ±0.1% x L
Layer Thickness	0.1mm (0.004 in)	
Laser Type	Diode-pumped solid-state laser Nd:YVO ₄	
Optical System	SCANLAB Galvanometer Scanner Beam Size: the diameter of fixed spot: 0.08mm-0.15m the diameter of variable spot: Small spot: 0.08mm-0.15m; Large spot: 0.45mm	
Operating Software	Sirius Intelligent Printing Control Software Linux / Windows (Optional)	
CAD Interface	STL,CTL,OBJ,PLY,ZPR,ZBD,AMF,WRL,3DS, FBX,MJPDDD,3DPRINT,BFF,IGES,IGS,STEP and STP	
Machine Size W x D x H	850 x 1150 x 1800 mm (33.46 x 45.28 x 70.87 in)	880 x 1200 x 1850 mm (34.65 x 47.24 x 72.83 in)
Ambient Temperature	22 - 25°C (71.6 - 77°F)	
Relative Humidity	Less than 40%	
Power Requirements	200 - 240 VAC 50 / 60 Hz 16A (Available according to local voltage standard)	



Accuracy may vary depending on build parameters, part geometry and size, part orientation and post-processing methods.

By choosing a ProtoFab SLA machine, you also gain access to comprehensive training for 3D printing, post-processing and advanced industrial design assistance. We also provide you with free lifetime technical support to help your business optimize production and maximize profitability.

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