

# STEREOLITHOGRAPHY 3D PRINTER

## SLA300 / 450-DLC



**PROTOFAB™**  
BEYOND DIMENSIONS

### PRECISION BENCHMARK

[www.3dprotofab.com](http://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) <sup>1</sup>	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 <sub>4</sub>	
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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