

Stratasys Neo800 3D printer

Build large parts with superior surface quality, accuracy and detail.

Build large prototypes, rapid tooling and master patterns with a world-class industrial large-format stereolithography system. The Neo[®]800 builds high-quality parts with superior surface quality, accuracy and detail.






Why choose the Neo800?

- Exceptional part sidewall quality: Outstanding scanning resolution reduces finishing time by up to 50%.
- Open resin system: Compatible with all commercially available 355nm SL resins, allowing freedom of material selection.
- Connected services: Stay connected and updated with the built-in camera, emailed progress reports and status updates.
- Customer-driven development: Customer suggestions and feedback are encouraged, driving user-enhanced software updates.
- Large build volume: Measuring 31.5 x 31.5 x 23.6 in. (800 x 800 x 600 mm). Build larger parts without section and bonding.
- Intuitive Titanium[™] software: Easy-to-use software optimizes build time and part quality with build history, parameter detail, hardware usage and part traceability data reporting.
- Accessible support: Remote diagnostics or convenient on-site support from our exceptional service team.
- Quality assurance: The Stratasys Neo800 is carefully designed and engineered throughout, using premium components, parts and finishes.

3D Printer Specifications**		
Laser & Scanning System	Laser	2 Watt
		355 nm, solid-state frequency tripled Nd: YVO ⁴
	Beam Focus	Dynamic & Variable
	Beam Size	150 to 600 μm
	Scanning Speed	Up to 400 in./s (10 m/s)
Layer Resolution	50 to 200 μm*	
Minimum Feature Size	0.008 in. (0.2 mm) in X & Y [†] / 0.016 in. (0.4mm) in Z [†]	
Build Modes	HD & SD	
Accuracy	Dimension <3.94 in. ±0.004 in.; Dimension >3.94 in. ±0.15% [†] Dimension <100 mm ±0.1 mm; Dimension >100 mm ±0.15% [†]	
Material Compatibility	Open resin system - compatible with commercially available 355 nm stereolithography resins	
Capacities	Build (XYZ)	31.50 x 31.50 x 23.62 in. (800 x 800 x 600 mm)
	Vat Fill	147 US gal (1389 lb [‡]) [555 ltr (630 kg [‡])]
Software	Operating System	Windows 10 Pro
	Input File Format	SLC
	Control Software	Titanium
	Remote Editor	Titanium Assistant (Optional)
Connectivity	Ethernet	Fully compliant with IEE 802.3, IEEE 802.3u, IEEE 802.3ab
	USB Port	USB 2.0

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Features & Build Options	Build validation / Build time estimator / Material usage estimator / Scheduled start / Open build parameters enabling any material to be processed / On-the-fly parameter adjustment & part deletion / Upper surface build quality optimization / Bubble remover with automated option.	
Advanced Services & Reporting Tools	Industry 4.0 compliant / Full part traceability / Logging of machine utilization; build history; parameters; material usage; formatted data export / System & build status email notification § / Onboard camera / Resin viscosity tracking / User level access control / Scheduled lighting.	
Support	1-click "snapshot" job diagnostic pack for remote support / Remote diagnostics §	
Electrical Requirements	208 ~ 240 V, 50/60 Hz	900 W Typical operation, 1900 W Max
Environmental Requirements	Temperature range: 68-74°F (20-23°C), max rate change ±2°F/hr (1°C/hr). Relative humidity 20-50% non-condensing.	
Dimensions (WxDxH)	53.2 × 64.2 × 90.6 in. (1350 × 1630 × 2300 mm)	
Weight	Printer	1764 lb (800 kg)
	Vat (empty)	529 lb (240 kg)
Warranty	System	12 months on-site service and support, as per Stratasys conditions of sale
	Laser	Replacement <800 mW before 10,000 hours or 18 months (whichever is sooner)
Accessories	Unload Trolley for Neo800 / UV800 oven & hot box	
Regulatory Conformity	    	

* 100µm layer parameters are supplied for Stratasys certified materials. Parameters for alternative thicknesses may be available. Layer thickness range is material dependent. Contact Stratasys for more details.

† Accuracy & minimum feature size will vary depending on material, parameters, part geometry and size, pre- & post-processing methods and environment.

‡ Based on typical material density, 2.47 lb/0.3 gal @ 78.8°F (1.12kg/ltr @ 26°C).

§ Internet connection is required for full or partial functionality.

** Specification can be subject to change without prior notice.