

Stratasys

Neo800

Build large parts with superior surface quality, accuracy and detail

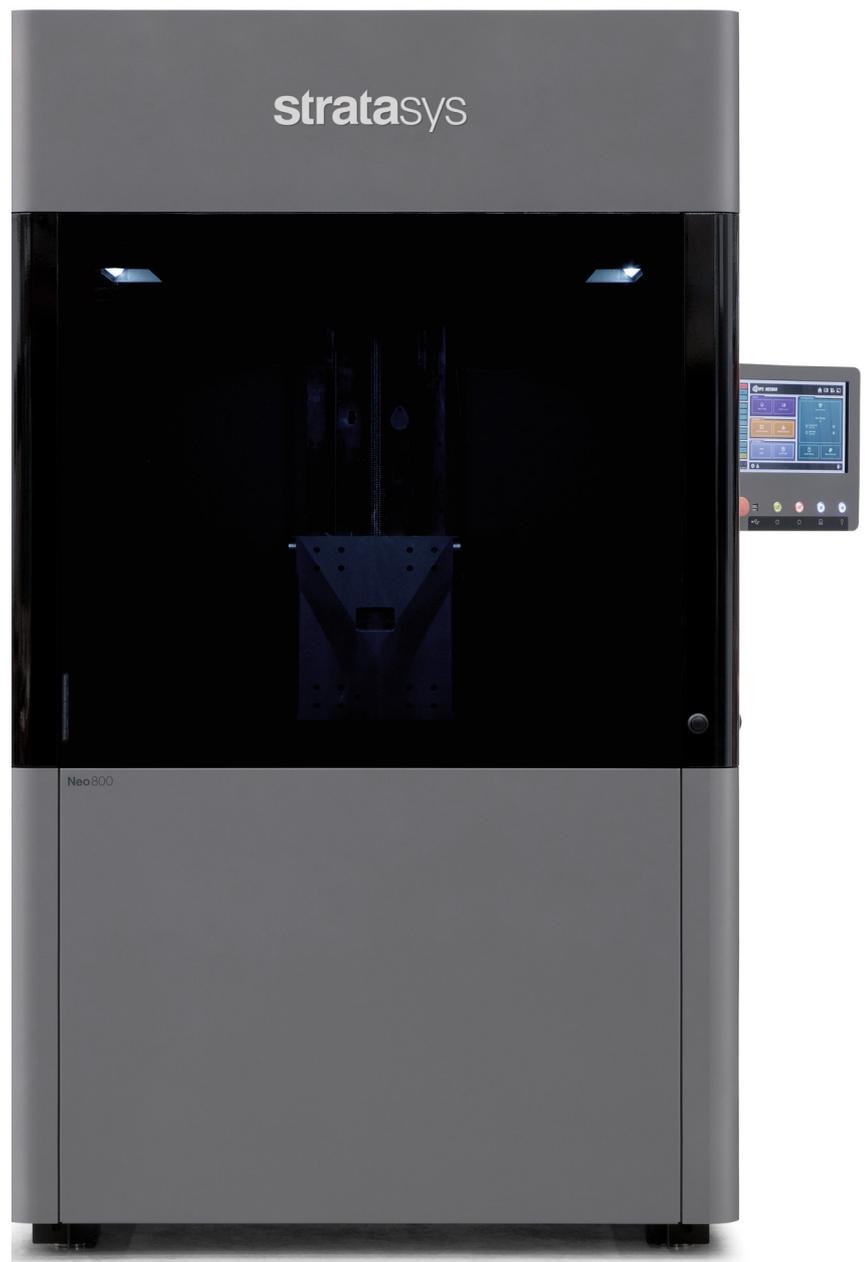
The Neo800 builds large prototypes, rapid tooling and master patterns, and is the global market leader of large-format stereolithography technology.

The Neo800 is renowned for its reliability and industry standard side wall quality. It has an established track record for delivering consistently accurate parts and high yield volumes for industrial production.

Known in the industry for its productivity and performance, the Neo800 is placed around the world in a range of organizations, including F1, automotive, service bureaus and universities.

Key highlights

- Print large parts with outstanding surface finish on the 53.2 × 64.2 × 90.6 in. (800 × 800 × 600 mm) build platform.
- Produce large parts without the need for sectioning, or build multiple parts in one build, saving time and costs.
- Intuitive Titanium software optimizes build quality and captures build data for greater traceability, enhancing work efficiency.
- Dynamic laser focusing and SD and HD build modes produce highly accurate and detailed parts.
- The Neo Unload Trolley and UV800 post-curing oven & hotbox are available for a complete, end-to-end 3D printing solution.



See the Specs

Neo800 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 × 31.50 × 23.62 in. (800 × 800 × 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
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.