# Stratasys Neo800

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:
- Open resin system
- Customer-driven developmen
- Large build volum
- Intuitive TitaniumTM software
- Accessible support
- Quality assurance
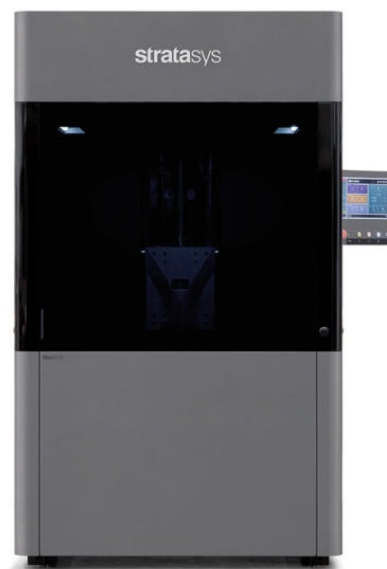
Neo800 Specifications		
Laser & Scanning System	Laser	2 Watt
		355 nm, solid-state frequency tripled Nd: YV0
	Beam Focus	Dynamic & Variable
	Beam Size	150 to 600 μm
	Scanning Speed	Up to 400 in./s (10 m/s)
Layer Resolution		50 to 200 μm
Minimum Feature Size		0.008 in. (0.2 mm) in X & Y† / 0.016 in. (0.4mm) 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

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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

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

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