stratasys

Neo®800+ 3D Printer

The new benchmark for high-speed, large-format SLA

Designed by Engineers, for Engineers.

The Neo®800+ 3D printer combines cutting-edge software and advanced technology to deliver up to **50% faster performance** than its predecessor. With enhanced part fidelity and reliability, it minimizes downtime and service needs, setting a new standard for large-format SLA printing with the **lowest total cost of ownership**.

System Specifications

Laser & Scanning System	**Laser**	4 Watt, 355 nm, solid-state frequency tripled Nd:YVO[4]
	Beam Focus	Dynamic & Variable
	Beam Size	120 to 750µm
	Scanning Speed	Up to 790 in./s (20 m/s)
Layer Resolution		50 to 200 µm[*]
Minimum Feature Size		0.007 in. (0.17 mm) in X & Y[†] 0.016 in. (0.4mm) in Z[†]
Build Modes		High Detail & Standard Detail (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)**	Half: 31.50 x 31.50 x 11.81 in. (800 x 800 x 300 mm) Full: 31.50 x 31.50 x 23.62 in. (800 x 800 x 600 mm)
	Vat Fill	Half: 83 US gal (780 lb[‡]) [316 ltr (354 kg[‡])] Full: 147 US gal (1378 lb[‡]) [558 ltr (625 kg[‡])]
Software	**Operating System**	Windows 10 IoT Enterprise LTSC 2021
	Input File Format	SLC
	Control Software	Titanium
	Build Prep Software	GrabCAD or Materialise Magics
	Remote Editor	Titanium Assistant (Optional)
Connectivity	**Ethernet**	Fully compliant with IEE 802.3, IEEE 802.3u, IEEE 802.3ab
	USB Port	USB 3.1
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 and part deletion / Upper surface build quality optimization / Bubble remover with automated option

System Specifications

Advanced Services & Reporting Tools		Industry 4.0 compliant / Full part traceability / Logging of machine utilization; build history; parameters; material usage; formatted data export / System and 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
UPS		1 – 2 hrs of system up-time with intelligent UPS control***
Dimensions (WxDxH)	**Printer (uncrated)**	53.2 x 64.2 x 90.6 in. (1,350 x 1,630 x 2,300 mm)
	Printer Crated	67.3 x 73.2 x 100.8 in. (1,710 x 1,860 x 2,560 mm)
	Vat (uncrated)	46.9 x 35.9 x 34.3 in. (1,190 x 910 x 870 mm)
	Vat Crated	55.2 x 41.4 x 43 in. (1,400 x 1,050 x 1,090 mm)
Weight	**Printer**	1,764 lb (800 Kg)
	Vat	529 lb (240 Kg)
Crated Weight	**Printer**	2,646 lb (1200 Kg)
	Vat	960 lb (435 Kg)
Warranty	**System**	12 months on-site service and support, as per Stratasys conditions of sale
Accessories	**UV800**	1,058 lb (480 Kg)
	Unload Cart	463 lb (210 Kg)
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 and minimum feature size will vary depending on material, parameters, part geometry and size, pre- and 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.
*** When connected to a Stratasys Certified UPS, not sold with the Neo800+ 3D printer, please contact Stratasys for further details.

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ISO 9001:2015
Certified

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PRODUCT SPEC SHEET
SLA