



stratasys

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SOLUTIONS FOR A 3D WORLD®

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



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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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PRODUCT SPEC SHEET
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