



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 <sup>4</sup>
	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 <sup>†</sup> 0.016 in. (0.4mm) in Z <sup>†</sup>
Build Modes		High Detail & Standard Detail (HD & SD)
Accuracy		Dimension <3.94 in. ±0.004 in.; Dimension >3.94 in. ±0.15% <sup>†</sup> Dimension <100 mm ±0.1 mm; Dimension >100 mm ±0.15% <sup>†</sup>
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 <sup>‡</sup> ) [316 ltr (354 kg <sup>‡</sup> )] Full: 147 US gal (1378 lb <sup>‡</sup> ) [558 ltr (625 kg <sup>‡</sup> )]
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

<b>Advanced Services &amp; Reporting Tools</b>		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
<b>Support</b>		1-click "snapshot" job diagnostic pack for remote support / Remote diagnostics §
<b>Electrical Requirements</b>	<b>208 ~ 240 V, 50/60 Hz</b>	900 W Typical operation, 1900 W Max
<b>Environmental Requirements</b>		Temperature range: 68-74 °F (20-23 °C), max rate change ±2 °F/hr (1 °C/hr) Relative humidity 20-50% non-condensing
<b>UPS</b>		1 – 2 hrs of system up-time with intelligent UPS control***
<b>Dimensions (WxDxH)</b>	<b>Printer (uncrated)</b>	53.2 x 64.2 x 90.6 in. (1,350 x 1,630 x 2,300 mm)
	<b>Printer Crated</b>	67.3 x 73.2 x 100.8 in. (1,710 x 1,860 x 2,560 mm)
	<b>Vat (uncrated)</b>	46.9 x 35.9 x 34.3 in. (1,190 x 910 x 870 mm)
	<b>Vat Crated</b>	55.2 x 41.4 x 43 in. (1,400 x 1,050 x 1,090 mm)
<b>Weight</b>	<b>Printer</b>	1,764 lb (800 Kg)
	<b>Vat</b>	529 lb (240 Kg)
<b>Crated Weight</b>	<b>Printer</b>	2,646 lb (1200 Kg)
	<b>Vat</b>	960 lb (435 Kg)
<b>Warranty</b>	<b>System</b>	12 months on-site service and support, as per Stratasys conditions of sale
<b>Accessories</b>	<b>UV800</b>	1,058 lb (480 Kg)
	<b>Unload Cart</b>	463 lb (210 Kg)
<b>Regulatory Conformity</b>		CE UK FC KC A

\* 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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