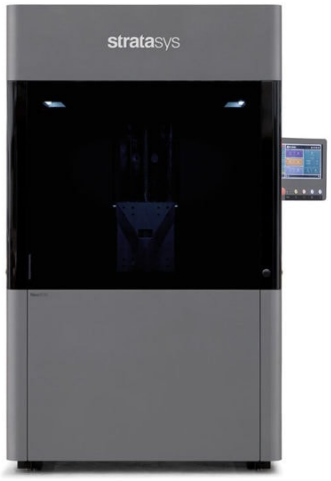
sys stratasys PLATINUM PARTNER

# Stratasys Neo450




## A versatile printer, with flexible options to suit multiple needs

The Stratasys Neo450e is an affordable industrial-grade 3D printer producing small to medium parts with consistent accuracy and repeatability. Dependable and reliable, the Stratasys Neo450e is designed for nonstop printing of industrial production parts.

The Neo450s offers performance and versatility along with all the benefits of Neo450e. The Neo450s is up to 40% faster and offers standard and high-definition build modes, producing superior quality parts.

| Neo800 Specifications | | Neo450e | Neo450s |
|---|---|---|---|
| **Laser & Scanning System** | Laser | 1 Watt | 2 Watt |
| | | 355 nm, solid-state frequency tripled Nd: YV0 | 355 nm, solid-state frequency tripled Nd: YV0 |
| | Beam Focus | Dynamic | Dynamic & Variable |
| | Beam Size | 250 µm | 80 to 750 µm |
| | Scanning Speed | Up to 400 in./s (10 m/s) | Up to 400 in./s (10 m/s) |
| **Layer Resolution** | | 50 to 200 µm | 50 to 200 µm |
| **Minimum Feature Size** | | 0.012 in. (0.3 mm) in X & Y / 0.016 in. (0.4mm) in Z | 0.006 in. (0.15 mm) in X & Y / 0.016 in. (0.4 mm) in Z |
| **Build Modes** | | SD | HD & SD |
| **Build Speed** | | In like-for-like comparisons, build times are up to 40% shorter with the Neo450s | |
| **Accuracy** | | Dimension <3.94 in. ±0.004 in.; Dimension >3.94 in. ±0.1% Dimension <100 mm ±0.1 mm; Dimension >100 mm ±0.1% | |
| **Material Compatibility** | | Open resin system - compatible with commercially available 355 nm stereolithography resins | |
| **Capacities** | Build (XYZ) | Short: ** 17.72 × 17.72 × 1.97 in. (450 × 450 × 50 mm) Half: ** 17.72 × 17.72 × 7.87 in. (450 × 450 × 200 mm) Full: 17.72 × 17.72 × 15.75 in. (450 × 450 × 400 mm) | |
| | Vat Fill | Short: 10 US gal (95 lb) [38 ltr (43kg)] Half: 22 US gal (203 lb) [82 ltr (92kg)] Full: 37 US gal (348 lb) [141 ltr (158 kg)] | |
| **Software** | Operating System | Windows 10 Pro | |
| | Input File Format | SLC | |
| | Control Software | Titanium | |
| | Remote Editor | Titanium Assistant (Optional) | |

# Stratasys Neo450

| Neo800 Specifications | | Neo450e | Neo450s |
|---|---|---|---|
| **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 / Openbuild parameters enabling any material to be processed / On-the-fly parameter adjustment & part deletion / Upper surface build quality optimization / Bubble remover with automated option / Scheduled start | |
| **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** | 110 ~ 120 Volt, 60 Hz | 300 W Typical operation, 550 W Max | |
| | 220 ~ 240 Volt, 50 Hz | 700 W Typical operation, 1300 W Max | |
| **UPS** | | 20 ~ 40 mins of system up-time with Intelligent Control (not sold with the Neo450 series; please contact Stratasys for recommended suppliers) | |
| **Dimensions (WxDxH)** | | 41.3 × 48.2 × 74.8 in. (1050 × 1225 × 1900 mm) | |
| **Weight** | Printer | 1323 lb (600 kg) | |
| | Vat (empty) | 221 lb (100 kg) | |
| **Warranty** | System | 12 months on-site service and support, as per Stratasys conditions of sale | |
| | Laser | Replacement <400 mW after 10,000 hours or 18 months (whichever is sooner | Replacement <800 mW after 10,000 hours or 18 months (whichever is sooner) |

* 100µm layer parameters are supplied for Stratasys certified materials. Parameters for alternative thicknesses may be available. Layer thickness range is material dependant. 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.
* Based on internal testing October 2019.

**Additive Manufacturing Centre**
Chadwick House, Woodyard Lane,
Foston, Derby, DE65 5BU

+44 01283 585955

sys-uk.com

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www.sys-uk.com/contact