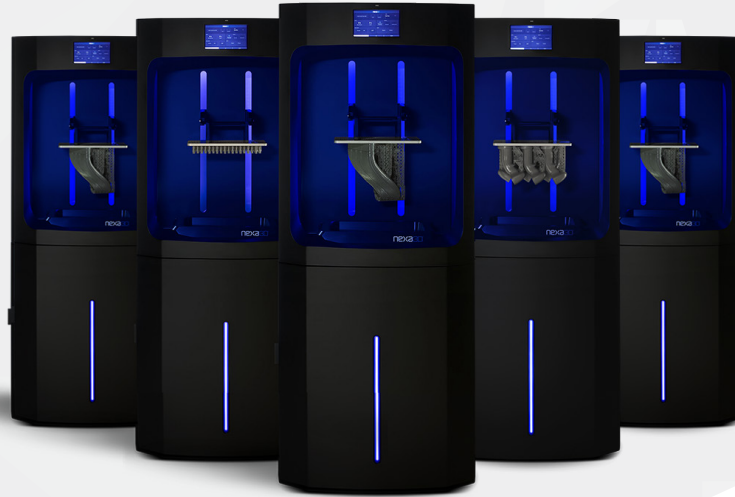


# NXE 400 3D Printer is Breaking Additive Industry Productivity Performance and Cost Barriers



NXE 400 3D printer delivers best in breed print size, volume and speed at the lowest cost of ownership, making it ideal for series production and same day on-demand parts and prototypes.



## See what the World's Fastest Industrial 3D Printer can Do For Your Business

### NXE 400

With an unprecedented 16L build volume measuring 10.8 in x 6.3 in x 15.7 in (27.5 cm x 15.5 cm x 40 cm), intelligent optimization, and Nexa3D's revolutionary patented LSPc technology, the NXE 400 is the perfect printer for any application.

### 2.5x Larger Build Volume

The NXE 400 features more than double the build volume compared to currently available technologies, allowing for much larger parts, higher part throughput, and ultimately lower part cost, all with the higher-resolution pixels (75  $\mu\text{m}$ ) and isotropic prints.

### Manufacturing Ready + Modular Design

In addition to our highly reliable LSPc technology, the NXE 400 is crafted to be completely modular in design for easily interchangeable parts and technology upgrades eliminating hardware obsolescence.

### Next-Gen Software + Predictive Service

Nexa3D's internally developed intelligent software connects our hardware and materials together into a powerful, user friendly system while providing a new era of predictive and prescriptive service. It's as simple as pressing CTRL+P.

### Maximize Part Quality and Yield

The NXE 400 is the next scalable manufacturing solution with additional washing and curing units capable of handling even the largest 16L parts on a single tray making the NXE 400 the most advanced printing solution in its class. The washing and curing units are also capable of handling both single large prints and a combination of smaller parts with multiple trays to create finished parts in a matter of minutes in what would normally take hours with today's available technologies reducing labor costs and post processing times.

### Smart and Connected

Our software tools, include validated workflows that are coded into our digital thread and include intuitively guided print prep and execution system. Machine learning and vision provide adaptive print process and real-time monitoring for optimal yield and quality. Our validated workflows include material and geometry specific prescribed wash and cure cycles.

[Contact us for a free sample box](#)

# Performance Photoplastics For Series Production

Nexa3D offers an expanding range of high impact functional materials for the NXE 400 3D printer that are tailored to unleash performance and productivity by taking 3D printing from dial-up internet to broadband speed, making our solutions ideal for series production and same day prototypes.

|   |  |
|---|--|
|    | <p><b>xGPP-Translucent</b></p> <p><b>Unique Features</b></p> <ul style="list-style-type: none"> <li>• No Water uptake</li> <li>• Fast Printing Speed</li> <li>• Low Shrinkage</li> <li>• High Accuracy</li> </ul>  |
|    | <p><b>xGPP-Gray</b></p> <p><b>Unique Features</b></p> <ul style="list-style-type: none"> <li>• Great surface finish</li> <li>• Incredibly true to design details</li> <li>• Ideal for texture-rich parts</li> <li>• Matt finish</li> <li>• Primed for painting and plating</li> </ul>  |
|  | <p><b>xABS-HT-Orange</b></p> <p><b>Unique Features</b></p> <ul style="list-style-type: none"> <li>• Fast Printing Speed</li> <li>• Low Shrinkage</li> <li>• Fully Functional parts</li> <li>• Stronger Durability</li> </ul>   |
|  | <p><b>xCE-Black</b></p> <p>High performance polymer for producing end-use plastic parts and injection molding tools in minutes. Nexa3D's new material is a single cure polymer that delivers higher flexural strength compared to those typically achieved only in dual cure cyanate ester resins. xCE-Black has excellent isotropic properties and exhibit long-term environmental stability.</p>                         |
|  | <p><b>3843 xABS black</b></p> <p>High performance, high modulus material that boasts excellent flexural and tensile physical properties with a relatively high degree of elongation. 3843-ABS-Black is a low-shrinkage and high toughness material, enabling it to print accurately and function in a wide variety of applications including robotics and automation machinery, vehicle components, and end-use parts.</p> |
|  | <p><b>xMED412</b></p> <p>xMED412 is polypropylene-like material that is ideal for manufacturing a variety of biocompatible, medical and wearable devices. xMED412 is based on Henkel's Loctite® MED412 material and is covered by all of its associated clearances, tests and certifications.</p>  |

## Printer Hardware

|                           |   |
|---------------------------|---|
| <b>Build Volume (xyz)</b> | 275 x 155 x 400mm (10.8 x 6.1 x 15.7 inch)  |
| <b>Pixel Pitch</b>        | 76.5 μm (0.0030 in)   |
| <b>Build Materials</b>    | UV Curable Plastics: xGPP-Blue, xGPP-Transparent, xGPP-Grey, xABS-HT-Orange, 3843-ABS-Black, xCE-Black, xMED, xCAST |
| <b>Max Resolution</b>     | 4K (3840 x 2160)  |
| <b>Wavelength</b>         | 405 nm  |
| <b>Material Packaging</b> | 5kg jerry can   |

| Operating Environment  |  |
|------------------------|--|
| <b>Air Temperature</b> | 20-25°C (60-80°F)  |
| <b>Electrical</b>      | NA Version : 100-120 VAC, 50/60 Hz, Single Phase, 8A (NEMA 15-5R)<br>EU Version: 210-230 VAC, 50/60 Hz, Single Phase, 4A (CEE 7/7) |
| <b>Humidity</b>        | RH below 70%   |

| Dimensions (WxDxH)         |   |
|----------------------------|---|
| <b>3D Printer crated</b>   | 990 x 990 x 1905mm (39 x 39 x 75 inch)  |
| <b>3D Printer uncrated</b> | 710 x 710 x 1675 mm (28 x 28 x 66 inch) |

| Weight   |  |
|--|--|
| <b>3D Printer crated</b>                           | 250 kg (550lb)   |
| <b>3D Printer uncrated</b>                         | 160kg (350lb)  |
| <b>Materialise MagicsPrint for Nexa3D Software</b> | Full featured toolset including auto aorientation and nesting, auto support generation, mesh repair wizard, and part editing   |
| <b>NexaX v1 Software</b>                           | Easy build processing and Remote Printer Management: submission and queues, job statistics.  |
| <b>Connectivity</b>                                | GigaBit Ethernet RJ-45 & WiFi Interface  |
| <b>Client Hardware Recommendation</b>              | <ul style="list-style-type: none"> <li>- 3 GHz multiple core processor with 16+ GB RAM</li> <li>- NVIDIA GTX 1060 or AMD Radeon RX 480 or better graphics with 4+ GB RAM</li> <li>- 3 GB available HDD space, additional 10GB for files / cache</li> </ul>   |
| <b>Client Operating System</b>                     | Windows 10, 64bit  |
| <b>Input Data File Formats Supported</b>           | .stl, .3mf   |
| <b>Post-Processing</b>                             | Ships with basic part finishing tools accessory kit.<br><ul style="list-style-type: none"> <li>- Max build requires wash basin &amp; cure chamber with 300 x 180 x 480mm (12 x 7 x 19 in) capacity</li> <li>- Requires UV curing unit capable of &gt; 2mW/cm<sup>2</sup> and 60°C (ideal 20mW/cm<sup>2</sup> and up to 120°C)</li> </ul> |

Note: Not all products and materials are available in all countries – please consult your local sales representative for availability

## Materials

| Properties  | xGPP-Translucent     | xGPP-Gray        | xABS-HT-Orange              | xCE Black                   | 3843-ABS-Black | xMED412       |
|---|----------------------|------------------|-----------------------------|-----------------------------|----------------|---------------|
| <b>Viscosity at RT (cps)</b>                            | 1063                 | 364              | 409                         | 386                         | 826            | 637           |
| <b>Color</b>  | Clear                | Gray             | Orange                      | Black                       | Black          | Clear         |
| <b>Liquid Density</b>                                   | 1.06                 | 1.12             | 1.12                        | 1.12                        | 1.16           | 1.06          |
| <b>Package Size</b>                                     | 5kg                  | 5kg              | 5kg                         | 5kg                         | 5kg            | 5kg           |
| <b>Layer Thicknesses</b>                                | 100μm                | 50, 100μm        | 100, 200μm                  | 100μm                       | 100μm          | 100μm         |
| <b>Tensile Strength, Ultimate (MPa) ASTM D638</b>       | 60                   | 30               | 80                          | 69                          | 60             | 38            |
| <b>Elongation at Break</b>                              | 5.5%                 | 4%               | 5.5%                        | 3.0%                        | 47%            | 141%          |
| <b>Flexural Strength (MPa) ASTM D790</b>                |                      |                  | 135                         | 135                         | 80.6           | 37.6          |
| <b>Flexural Modulus (MPa)</b>                           |                      |                  | 3250                        | 3250                        | 1860           | 1022          |
| <b>Hardness (shore D) ASTM D2240</b>                    | 88                   | 84               | 90                          | 89                          | 86             | 74.7          |
| <b>Impact, Notched Izod (J/m) ASTM D256</b>             |                      |                  | 20                          | 20                          | 53.8           | 42.6          |
| <b>Heat Deflection Temperature @ 0.45 Mpa ASTM D648</b> | 61°C                 | 59°C             | 120°C                       | 120°C                       | 80°C           | 40°C          |
| <b>Glass Transition (Tg)</b>                            |                      | 93°C             | 129°C                       | 128°C                       |                |               |
| <b>Water adsorption</b>                                 | 0.4%                 |                  | 0.38%                       | 0.63%                       | 2.35%          | 0.36%         |
| <b>Description</b>                                      | Prototyping Material | Aesthetic models | High temperature & strength | High temperature & strength | High Toughness | Medical Grade |

**Warranty/Disclaimer:** The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. Nexa3D makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use.