

High Performance Materials



Nexa3D's robust materials portfolio is backed by strong partnerships with leading material providers including Henkel and BASF. Our resin 3D printing materials are tailored to the LSPc process to deliver ultrafast speed, durability and accuracy. Getting the most out of our ultrafast LSPc technology is enabled by this broad range of fully validated materials, which are formulated to provide unprecedented print speed as well as part characteristics required for optimal mechanical performance. This includes general purpose resins for prototyping or tooling as well as high performance resins like xPEEK for high temperature environments or xPP for exceptional elongation characteristics.

Best For:

Functional prototyping, jigs, fixtures, and on-demand manufacturing of final components.

Printer Hardware

Build Volume (xyz)	275 x 155 x 400 mm (10.8 x 6.1 x 15.7 inch)
Pixel Pitch	76.5 µm (0.0030 in)
Max Resolution	4K (3840 x 2160)
Wavelength	405 nm
Material Packaging	5kg jerry can

Operating Environment

Air Temperature	20-25°C (68-77°F)
Electrical	NA Version: 100-120 VAC, 50/60 Hz, Single Phase, 8A (NEMA 15-5R) EU Version: 210-230 VAC, 50/60 Hz, Single Phase, 4A (CEE 7/7)
Humidity	RH below 70%

Dimensions (WxDxH)

3D Printer crated	990 x 990 x 1905 mm (39 x 39 x 75 inch)
3D Printer uncrated	710 x 710 x 1675 mm (28 x 28 x 66 inch)

Weight	
3D Printer crated	250kg (550lb)
3D Printer uncrated	160kg (350lb)

NexaX Software	Full-featured software tool set providing auto-orientation and nesting, automatic support generation, easy build processing, and remote printer management including build submission, queue visibility, and job statistics.
Connectivity	GigaBit Ethernet RJ-45 & WiFi Interface
Client Hardware Recommendation	<ul style="list-style-type: none"> 3 GHz multiple-core processor with 16+ GB RAM NVIDIA GTX 1060 or AMD Radeon RX 480 or better graphics with 4+ GB RAM 3 GB available HDD space, additional 10GB for files / cache
Client Operating System	Windows 10, 64bit
Input Data File Formats Supported	.stl, .3mf
Post-Processing	Ships with basic part finishing tools accessory kit. <ul style="list-style-type: none"> Max build requires wash basin & cure chamber with 300 x 180 x 480mm (12 x 7 x 19 in) capacity Requires UV curing unit capable of > 2mW/cm² and 60°C (ideal 20mW/cm² and up to 120°C)



nexa3D®

NXE400Pro

Industrial 3D Printer for Ultrafast Production Parts and Prototypes

Precision high speed additive manufacturing

With the patented LSPc™ Technology you can print up to 6.5x faster for ultrafast production of accurate, repeatable parts.

Large, versatile build volume

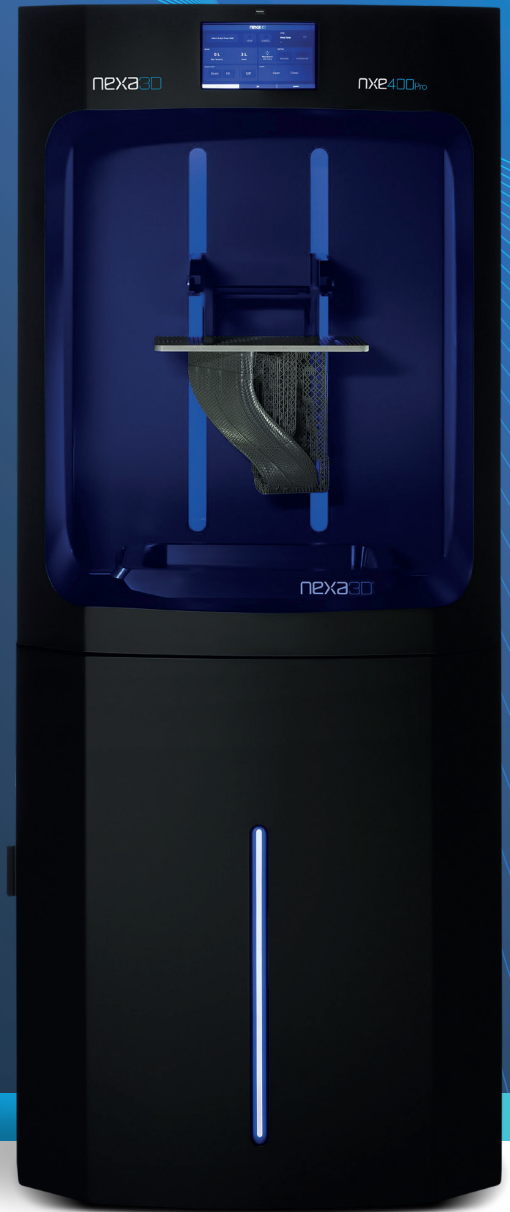
10.8 x 6.1 x 15.7 inch (275x x 155 x 400 mm)

Robust, high-performance materials portfolio

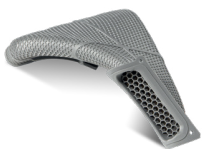
The NXE 400Pro is open source and compatible with various resin materials, including xPEEK, xABS, and xFLEX.

Edge-to-edge uniformity and accuracy with 4K resolution

Count on part-to-part consistency across the full build volume without light diffusion near part edges.



Functional Prototypes



Production Manufacturing



Jigs and Fixtures



3D Printed Tooling and Inserts



Print the Future

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nexa3D®

NXE400Pro

Industrial 3D Printer for Ultrafast
Production Parts and Prototypes



Accessibility

For designers, engineers, and manufacturers who need fast, accurate, and scalable prototyping and manufacturing solutions, the NXE 400Pro is an industrial 3D printer that delivers incredible speed, premium production capabilities, and exceptional productivity. With the NXE 400Pro you gain the ability to design, iterate, and take a product to market faster - and all with the same manufacturing technology.

6.5x Greater Print Speed with LSPc Technology

Nexa3D's patented 3D printing LSPc process enables production speeds that are up to 6.5x faster than other 3D printers from the same class. Different from DLP, where edge-to-edge performance can be compromised, LSPc delivers a uniform, high power and distortion-free image to all areas of the build plate to ensure part-to-part accuracy and uniformity. Nexa3D's self-lubricated, Everlast-2 membrane overcomes the delamination forces that accrue during any inverted, vat based printing process, thus enabling the fastest printing speed found on the market today.

2.5x Larger Build Volume

Featuring 2.5x greater build volume (16L) compared to SLA and DLP-based technologies, the NXE 400Pro photopolymer 3D printer allows for much larger parts, higher part throughput, and ultimately lower part cost – all with higher-resolution pixels (76.5 μm) and isotropic prints.

Manufacturing Ready & Modular Design

Built from industrial hardware with modular components, the 3D printer is easy to service and simple to upgrade, resulting in a long-lasting, reliable machine.

Next-Gen Software + Predictive Service

Nexa3D's very own NexaX software connects our hardware and materials together into a powerful, user friendly system while providing a new era of predictive and prescriptive service. Our software tools include validated workflows that are coded into our digital thread and include an intuitively guided print prep and execution system, and our validated workflows include material and geometry-specific wash and cure cycles.



Streamlined Post Processing for the NXE 400Pro

xWash

xWash matches the build volume and process requirements of the ultrafast NXE 400Pro, and is engineered for Nexa3D's photopolymer materials, giving manufacturers a powerful, consistent, and sustainable washing solution.

The xWash accepts parts attached to the NXE 400Pro build platform, or the option of a loose parts basket for production flexibility, and Nexa3D's xClean solution gives manufacturers an exceptional environmentally friendly recycling option with enhanced chemical/flash-point safety characteristics.

xCure

xCure consistently and rapidly unlocks the full potential of your 3D prints regardless of size or complexity. xCure optimizes the curing of all resin-based parts to ensure consistent dimensional accuracy, robust structural integrity, and stronger molecular structures. Its Perfect Part Optimization process consists of dual wavelength LEDs with parallel UV and thermal processing and the xCure can hold up to three build plates at once.

The net result is, less post-processing time, faster time to market, better part performance, increased 3D printing productivity and of course - exceptional parts.