



# Choosing the Right Dental 3D Printer

From desktop 3D printing for chair-side operations to scalable production for dental labs, we offer a full line of ultrafast 3D printing solutions and validated workflows that deliver unmatched speed, accuracy, and reliability at a lower total cost of ownership.



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# NXD 200 Pro

Ultrafast, Accurate, and  
Reliable 3D Printer for  
Dental Manufacturing

## Key Features

**Powered by next-generation LSPc® technology  
with validated workflows**

- Higher throughput for better profitability
- FDA-cleared materials
- Disruptive, modular and scalable light engine technology
- Edge-to-edge uniformity and accuracy
- Print up to 20 flat models in 30 minutes
- Spacious build platform 275 x 155 x 200 mm
- 4K resolution for great fit and impressive finish consistency across the full build volume without light diffusion near part edges



# NXD 200Pro Dental Solution

A complete 3D printing solution superior in speed and workflow for large-scale dental production needs.

## Large Build Plate Allows for High Throughput

The NXD 200Pro features 8.5L of build volume (measuring 10.8 x 6.1 x 7.8 in / 275 x 155 x 200 mm), an intelligent print optimization software, 4K resolution, and Nexa3D's revolutionary patented LSPc technology. Thanks to its cutting-edge technology the NXD 200Pro provides isotropic printed parts, higher throughput, and lower cost per part making it the perfect 3D printing solution for any dental application.

## Consistency with Every Build

Accuracy, uniformity and repeatability from edge to edge on the build platform.

## Lab Ready + Modular Design

In addition to our highly reliable LSPc technology, the NXD 200Pro is crafted to be completely modular in design for easily interchangeable parts and technology upgrades eliminating hardware obsolescence.

## Smart Integrated Workflow 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.

# Printer Hardware

Build Volume (xyz)	275 x 155 x 200mm (10.8 x 6.1 x 7.8 inch)
Max Resolution	4K resolution
Pixel Pitch	76.5 µm (0.0030 in)
Wavelength	405 nm
Material Packaging	5kg jerry can

Operating Environment	
Air Temperature	20-25°C (60-80°F)
Humidity	RH below 70%
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)

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

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

Weight	
3D Printer crated	250 kg (550lb)
3D Printer uncrated	160kg (350lb)
Materialise MagicsPrint for Nexa3D Software	Full-featured toolset including auto orientation and nesting, auto support generation, mesh repair wizard, and part editing
NexaX Software	Easy build processing and Remote Printer Management: submission and queues, job statistics
Connectivity	GigaBit Ethernet RJ-45 & WiFi Interface
Client Hardware Recommendation	<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>
Client Operating System	Windows 10 & 11, 64bit
Input Data File Formats Supported	.stl, .obj
Post-Processing	Ships with basic part finishing tools accessory kit. <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>

# xWASH

Nexa3D's xWASH matches the build volumes and process requirements of the ultrafast NXD 200Pro 3D printer, and is engineered for Nexa3D's photoplastic materials, giving manufacturers a powerful, consistent, and sustainable washing solution.



## Key Features

### Simple Operation

Touch screen user interface with color display

### Efficient

Bidirectional magnetic stirrer agitation with variable speeds

### Convenient

Accepts up to NXD 200Pro build plates, and/or loose parts basket

### Functional

35L Tritan reservoir with drain/fill ports

### Intuitive, Validated Workflow

Adjustable cleaning cycle timer and cleaner saturation timer

### Sustainable

Reduce cost and environmental impact with Nexa xClean part washing solution

## Technical Data

Dimensions L x W x H	400 x 420 x 860mm
Weight	60kg (wet)
Reservoir Capacity	35L
Maximum part capacity	275 x 155 x 400mm
Weight	7kg
Agitation Method	Magnetic impeller, variable speed
Power Supply	110-240VAC 50/60Hz
Recommended Operating Temperature	+10 °C to +40 °C (+50 °F to +104 °F)

# xCURE

Nexa3D's xCURE is a validated post-processing solution that optimizes the curing of all your dental parts to ensure consistent dimensional accuracy, robust structural integrity, and stronger molecular structures.



## Key Features

### Intuitive, Validated Workflow

Resin profile pre-settings for Nexa3D resins, as well as custom user input option

### Efficient

365+405 nanometer wavelength LED's deliver a broad spectrum of Nexa3D resin initiator coverage

### Maximum Coverage

6 LED strips that provide 360° of coverage with reflective interior to optimize uniformity

### Simple Operation

LCD screen interface with a rotary knob and push operation

### Convenient

Part loading flexibility: option to load loose parts on a shelf or parts printed on a build plate

## Specifications

Single click – rotate and push operation	External Dimensions (WDH) 21x20x32 in. / 53.34x50.80x81.28cm
Validated resin pre-setts for consistent part curing results	Internal Dimensions (WDH) 15.50x 10.75x25.75 in. 39.37x 27.30x65.40cm
30-60C heating capacity with 1C increments	Weight 110lbs (empty) / 49.89 kg (empty)
6 dual wavelength 365 + 405 nm LEDs	US 100-120 VAC 60 HZ
Total input power of 360W ensures quick and efficient cycles	EU 200-240 VAC 50 HZ

# XiP

Ultrafast Desktop  
Resin 3D Printer



## Key Features

**Powered by Nexa3D's proprietary Lubricant Sublayer Photo-curing (LSPc®) Technology, breaking the speed barrier in 3D printing**

- Proprietary Everlast-2 Membrane delivers enhanced part quality at superior speed
- Print at speeds of up to 18 cm per hour
- Generous 4.8L build volume (190 x 120 x 210 mm)
- Modular, 4K resolution mono LCD and advanced UV light engine combine for uniform and consistent prints
- Open materials platform for ultimate accessibility
- Quick-change resin system to easily swap materials
- Sleek industrial design with robust components and consumer-grade experience



# XiP Your Complete Desktop Solution

## Printer Specifications

<b>Technology</b>	<ul style="list-style-type: none"> <li>• Lubricant Sublayer Photo-curing (LSPC); Everlast-2</li> </ul>
<b>Build Volume</b>	<ul style="list-style-type: none"> <li>• 195 x 115 x 210 mm (7.7 x 4.5 x 8.3 in)</li> <li>• 4.8 liters print volume</li> </ul>
<b>Light Engine</b>	<ul style="list-style-type: none"> <li>• 405 nm LED array w/ collimating lens</li> <li>• Modular 9.3" Monochrome 4K LCD Mask</li> </ul>
<b>Resolution</b>	<ul style="list-style-type: none"> <li>• 0.050 mm (.002") / 0.100 mm (.004") / 0.200 mm (.008")</li> <li>• Pixel Size: 52µm</li> </ul>
<b>Resin System</b>	<ul style="list-style-type: none"> <li>• Automatic Gravity Feed Cartridge w/ Vat Level Sensing</li> <li>• Smart NFC bottle and resin vat/membrane</li> <li>• Auto electromagnet vat clamping; quick release build plate</li> <li>• Stackable vat storage</li> <li>• Built-in spill containment</li> </ul>
<b>Hardware</b>	<ul style="list-style-type: none"> <li>• Billet aluminum enclosure</li> <li>• 420mm (16.5") W x 350mm (14") D x 530mm (21") H</li> <li>• 5.5" Color HD OLED Touchscreen Display</li> <li>• Z-Stage               <ul style="list-style-type: none"> <li>• Rigid parallel linear rails</li> <li>• Recirculating ballscrew</li> </ul> </li> <li>• Ethernet / USB / Wi-Fi connectivity</li> </ul>
<b>Software</b>	<ul style="list-style-type: none"> <li>• NexaX Basic or NexaX Pro for XiP</li> <li>• <b>Supported File types:</b> .stl, .obj</li> <li>• <b>Operating Systems:</b> Windows 10/11, MacOS (coming soon)</li> </ul>
<b>Operating Environment</b>	<ul style="list-style-type: none"> <li>• <b>Electrical Input:</b> 100-240VAC, 50/60Hz</li> <li>• <b>Ambient Temperature:</b> 20-25 degrees C</li> <li>• <b>Humidity:</b> Below 70%</li> </ul>



> Intelligent NexaX™ Software enables intuitive workflow and access to open materials platform

> With XiP, you really can have it all - speed, productivity, quality, ease-of-use, and affordability

> All-in-one automated post processing system for washing and curing parts



## Essential Accessories



### Wash + Cure

The XiP Wash + Cure is a 2-in-1 post processing station that provides optimal automated post-processing in a compact package. Simply drop parts into the wash bin with IPA or xCLEAN and run the wash cycle. Then remove the wash bin and place your part on the turntable, fold down the LED arm, and place the reflective cover over the top for post-curing.



### XiP Air

The XiP AiR is a bluetooth-enabled desktop air filter and purifier. It comes with a HEPA filter specifically designed for Nexa3D with 5X the normal activated carbon to remove nuisance smells from the printing environment.

# Performance Dental Resins For Serious Production

Nexa3D offers an expanding range of high impact functional materials for dental applications that are tailored to unleash performance and productivity, making our solutions ideal for dental lab production and same day in-office prints.

## Performance Dental Resins

Properties	KeyModel Ultra	KeySplint Soft	KeySplint Hard	KeyGuide	KeyTray	KeyOrtho IBT	xMODEL 2505
Tensile Elongation at Break/D638	5%	110%	9%	6%	26%	>130%	4%
Tensile Modulus/ASTM D638	1700 MPa				2056 MPa	15.5 – 31 MPa	2500 MPa
Ultimate Tensile Strength/D638	50 MPa				62 MPa	8.0 – 10.5 MPa	54 MPa
Flex Modulus/ASTM D790	1940 MPa	1100 MPa	2300-2400 MPa	2400 MPa	1913 MPa		2150 MPa
Flex Strength/ASTM D790	70 MPa	44 MPa	100-110 MPa	106 MPa	84.7 MPa		83 MPa
Flex Modulus/ISO 20795-2		135 MPa	1510-1600 MPa				
Flex Strength/ISO 20795-2		2.6 MPa	60-65 MPa				
Hardness (Shore D)/ASTM D2240		80	89	95	86		73
Sorption/ISO 20795-2		<18 µg/mm <sup>3</sup>	18 ug/mm <sup>3</sup>				
Solubility/ISO 20795-2		<4.8 µg/mm <sup>3</sup>	0.1 ug/mm <sup>3</sup>				
Free Monomer Extraction		<2.2%	< 2.2%			< 2.2%	
Cytotoxicity/ISO 10993		Pass	Pass			Pass	
Irritation/ISO 10993		Pass	Pass				
Orthodontic Adhesive Release						Pass	
Sensitization/ISO 10993		Pass	Pass				
Biocompatibility/ISO 10993-5		Pass	Pass	Pass		Pass	
Biocompatibility/ISO 10993-10				Pass			

**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.

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A decorative graphic consisting of numerous thin, parallel blue lines that originate from the right side of the image and fan out towards the left, creating a sense of motion and depth.