

NextDent™ 5100

Revolutionary high-speed Figure 4 3D printing technology combined with the industry's broadest portfolio of dental materials addressing multiple applications, resulting in unparalleled accuracy, repeatability, productivity, and total cost of operation.



DIGITAL DENTISTRY, REDEFINED

Powered by Figure 4™ technology, the NextDent 5100 facilitates high-speed 3D printing for production of dental appliances and sacrificial castings. This revolutionary solution features an industry-defining value proposition that combines best-in-class speed and performance at a price point that is accessible to virtually all labs and clinics.

The range of dental materials, advanced print technology and compatibility with leading dental software is transforming dental workflows, enabling dental labs and clinics to produce trays, models, surgical guides, dentures, orthodontic splints, crowns and bridges with enhanced speed, precision, efficiency and lower cost.



CERTIFIED AND BIOCOMPATIBLE MATERIALS

Combined with a portfolio of 30 unique NextDent biocompatible materials—the largest number available from any material supplier—the NextDent 5100 addresses multiple dental applications. These materials are offered in a variety of aesthetic colors to closely match patients' teeth and gums. All NextDent materials are biocompatible and CE-certified, FDA listed and classified in accordance with the international medical device regulations.



TRUSTED END-TO-END WORKFLOW

Fully compatible with industry-standard intra-oral scanning and software solutions, the NextDent 5100 delivers precise results every single time with minimal human intervention. Combine the printer with other 3D Systems dental solution components to create a comprehensive and trusted workflow. This includes the NextDent LC-3DMixer for optimal stirring of materials, and the NextDent LC-3DPrint Box for UV post-curing.



EXPERIENCE YOU CAN COUNT ON

3D Systems has leveraged its 30 years of 3D printing experience in combination with the leading developer of biocompatible dental 3D printing materials to deliver the NextDent 5100 solution. This complete solution represents industry-defining materials and print innovation, dental domain expertise, and regulatory compliance in all major markets to revolutionize your workflow.

NextDent 5100

Build Volume (xyz)	124.8 x 70.2 x 196 mm (4.9 x 2.8 x 7.7 in)
Max Resolution	1920 x 1080 pixels
Pixel Pitch	65 microns (0.0025 in) (390.8 effective PPI)
Wavelength	405 nm
Build Materials	NextDent biocompatible resins Indications and uses: Models Temporaries (provisionals) Castables Surgical guides Splints Night guards Try-In and Dentures Custom Trays Gingiva Mask
Material Packaging	1 kg bottles for manual pour
Operating Environment Temperature Humidity (RH)	18-28 °C (64-82 °F) 20-80%
Electrical	100-240 VAC, 50/60 Hz, Single Phase, 4.0A
Dimensions (WxDxH) 3D Printer crated Pedestal crated 3D Printer uncrated 3D Printer with Pedestal uncrated	73.66 x 68.58 x 129.54 cm (29 x 27 x 51 in) 82.55 x 79.375 x 55.245 cm (32.5 x 31.25 x 21.75 in) 42.6 x 48.9 x 97.1 cm (16.7 x 19.25 x 38.22 in) 68.1 x 70.4 x 135.6 cm (26.8 x 27.71 x 53.38 in)
Weight 3D Printer crated Pedestal crated 3D Printer uncrated 3D Printer with Pedestal uncrated	59 kg (130 lbs) 26.3 kg (58 lbs) 34.5 kg (76 lbs) 54.4 kg (120 lbs)
Production Time for Full Arch Model	40 minutes to print a plate full of models
Accessories	LC-3DPrint Box UV post-curing unit (not included), Pedestal (not included), LC-3D Mixer (not included)
Certifications	FCC, CE, EMC
Warranty	12 month manufacturer's warranty included. 12 to 24 month extended warranty options available.



LC-3DPrint Box



LC-3D Mixer

Description	<p>The LC-3DPrint Box is a revolutionary UV light box, suitable for post-curing 3D printing materials. The LC-3DPrint Box is equipped with 12 UV light bulbs strategically placed inside the box to ensure a product is illuminated from all sides, which results in a quick and uniform curing cycle.</p> <p>Post-curing is required in order to obtain the final material properties. This procedure is a necessary step to produce a biocompatible end-product. Always follow the instructions for use relevant to the corresponding material.</p>	<p>The LC-3D Mixer is a roller/tilting stirring device for mixing 3D printing materials before pouring in the Resin Tray of the printer. Print resins must be mixed well. Only handshaking is insufficient for highly filled and colored materials. When mixed insufficiently color deviation and print failures may occur.</p> <p>The NextDent LC-3D Mixer keeps your NextDent 3D materials ready for use at any time at an optimum consistency.</p>
Related Voltage	110/230 V, 50/60 Hz, 2.6/1.3 A	100-240 V, 50/60 Hz
Power consumption	10 W	10 W
Fuse	250 V, T 2 A	250 V, T 2 A
Dimension (WxLxH)	41 x 44 x 38 cm	410 x 270 x 100 mm
Weight	22 kg	4 kg



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Warranty/Disclaimer: The performance characteristics of these products may vary according to product application, operating conditions, material combined with, or with end use. 3D Systems 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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