



NextDent™ 5100

High-speed dental solution addressing the broadest range of applications with NextDent biocompatible materials

Powered by revolutionary Figure 4™ 3D printing technology, the NextDent 5100, combined with the industry's broadest portfolio of dental materials, addresses multiple applications, resulting in unparalleled accuracy, repeatability, productivity, and total cost of operation.

NextDent 5100

HIGH-SPEED DENTAL 3D PRINTER

DIGITAL DENTISTRY, REDEFINED

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 LC-3DMixer for optimal stirring of materials, and the 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 Biocompatible Materials

THE NEXTDENT 5100 ADDRESSES MULTIPLE APPLICATIONS WITH A BROAD RANGE OF NEXTDENT MATERIALS*



Denture 3D+
3D print resin for the manufacturing of removable denture bases



C&B MFH
Micro filled hybrid 3D print resin for the manufacturing of long-term temporaries



Try-In
3D print resin for the manufacturing of try-in devices



Tray
3D print resin for the manufacturing of individual impression trays



SG (Surgical Guide)
3D print resin for the manufacturing of dental surgical guides



Model 2.0
3D print resin for the manufacturing of prosthodontic and orthodontic models



Gingiva Mask
3D print resin for the manufacturing of gingiva masks on dental models



Ortho Rigid
3D print resin for the manufacturing of dental splints



Ortho IBT
3D print resin for the manufacturing of indirect bonding trays.



Cast
3D print resin for the manufacturing of castable parts

Accessories

LC-3DPRINT BOX UV POST-CURING UNIT

Post-curing is required in order to obtain the final material properties, and is a necessary step to produce a biocompatible end-product with NextDent materials. The LC-3DPrint Box is a revolutionary UV light box equipped with 12 UV light bulbs strategically placed inside to ensure a product is illuminated from all sides, which results in a quick and uniform curing cycle. Always follow the instructions for use relevant to the corresponding material.

LC-3DMIXER

The LC-3DMixer keeps your NextDent 3D materials ready for use at any time at an optimum consistency. The LC-3DMixer 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, and handshaking is insufficient for highly filled and colored materials, and when mixed insufficiently color deviation and print failures may occur.



NextDent 5100 System Properties

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	<p>*Materials specifications are listed on nextdent.com. For specific information about the available resins and colors for the NextDent 5100 please contact your authorized reseller or area sales manager.</p> <table border="0"> <tr> <td>NextDent Denture 3D+</td> <td>NextDent Ortho Rigid</td> </tr> <tr> <td>NextDent SG (Surgical Guide)</td> <td>NextDent Model 2.0</td> </tr> <tr> <td>NextDent Try-In</td> <td>NextDent Tray</td> </tr> <tr> <td>NextDent C&B MFH</td> <td>NextDent Gingiva Mask</td> </tr> <tr> <td>NextDent Ortho IBT</td> <td>NextDent Cast</td> </tr> </table>	NextDent Denture 3D+	NextDent Ortho Rigid	NextDent SG (Surgical Guide)	NextDent Model 2.0	NextDent Try-In	NextDent Tray	NextDent C&B MFH	NextDent Gingiva Mask	NextDent Ortho IBT	NextDent Cast
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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	40 minutes to print a plate full of models										
Certifications	FCC, CE, EMC										
Warranty	12 month manufacturer's warranty included. 12 to 24 month extended warranty options available.										

Accessories	LC-3DPrint Box	LC-3D Mixer
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

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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