

Dentsply Sirona and Rapid Shape Announce Validation of D50+, D90+ and PRO 20 3D Printers for Lucitone Digital Print Denture System Materials

Dentsply Sirona, the world's largest diversified manufacturer of professional dental products and technologies, and Rapid Shape, a leading innovator in German-engineered dental 3D printing technology are pleased to announce that the Lucitone Digital Print Denture workflow and material system is now validated and available on Rapid Shape's D50+, D90+ and PRO 20 3D printers for digital denture manufacturing.

Charlotte, N.C., October 22, 2025. As the number of skilled dental technicians in the workforce declines, dental labs are under pressure to meet the increasing oral healthcare needs of a growing aging population. This includes the need for efficient, consistent, and high-quality denture production. To address this challenge, Dentsply Sirona and Rapid Shape collaborate to offer labs of all sizes a reliable solution that enhances productivity, increases profitability, and maintains uncompromising material standards by making the Lucitone Digital Print® Denture System, including the comprehensive range of materials and validated workflows featuring BAM!® smart polymer technology accessible on the Rapid Shape 3D Printing Platform

The Lucitone Digital Print Denture System is highly regarded for its robust mechanical strength, exceptional tooth durability, and an extensive platform for producing both full arch and partial dentures, available in 16 A-D* tooth shades plus two bleach options. Rapid Shape's advanced 3D printing solutions—from chairside to high-volume production—feature cutting-edge technology for faster printing and greater efficiency. Integrated into the D50+ and D90+ with their patented Automatic Separation Module, Rapid Shape enables fully automated production of over 120 dentures, eliminating manual intervention

The validation of the newly released Rapid Shape PRO 30 desktop 3D printer is currently ongoing and will be finalized by end of 2025.

Redefining denture manufacturing by bringing speed and efficiency to labs

Validating all Lucitone Digital Print materials for Rapid Shape printers including for both premium and economy dentures – Lucitone Digital Print, Lucitone Digital Value, Lucitone Digital IPN, Lucitone Digital Fuse, and the Digital Cure Units – will enable dental laboratories to meet the increased demand for high-quality dentures without necessitating complex assembly methods or long processing times.

"We're thrilled to collaborate with Rapid Shape to help more labs deliver premium-quality dentures through the Lucitone Digital Print System," said Rodrigo Canelhas, Group Vice President Implants and Prosthetic Solutions at Dentsply Sirona. "By combining our advanced polymer materials with Rapid Shape's robust 3D-printing platforms, we will make it easier than ever for labs to produce dentures that meet the highest clinical and aesthetic standards."

"Our partnership with Dentsply Sirona highlights our commitment to driving innovation in dental technology and equipping labs with the essential tools for success," says Andreas Schultheiss, Founder and CEO at Rapid Shape. "By certifying these premium materials for our printers, we empower users to deliver exceptional denture solutions with unwavering confidence—whether in dental labs or through seamless chairside production."

For more information about Rapid Shape's validated materials portfolio visit [Welcome - Rapid Shape](#)

Visit [3D Printed Dentures: Lucitone Digital Print | Dentsply Sirona USA](#) for more information about the Lucitone Digital Print® Denture System.

* The A1-D4 designations correspond to the VITA classical A1-D4® shade guide, which is meant to be a guide, not a match.

VITA classical A1-D4 is a registered trademark of VITA Zahnfabrik H. Rauter GmbH & Co. Internal data on file.

IMAGES

are available for [Download](#) on the website.



Fig. 1: Rapid Shape D50 and D90 3D printers



Fig. 2: : Rapid Shape PRO 20 3D printer



Fig. 3: Andreas Schultheiss, Founder and CEO at Rapid Shape



Fig. 4: Rodrigo Canelhas, Group Vice President Implants and Prosthetic Solutions at Dentsply Sirona



Fig.5: Lucitone Digital Print® Denture System makes it easy to manufacture dentures directly in-house

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About Dentsply Sirona

Dentsply Sirona is the world's largest diversified manufacturer of professional dental products and technologies, with over a century of innovation and service to the dental industry and patients worldwide. Dentsply Sirona develops, manufactures, and markets a comprehensive solutions offering including dental and oral health products as well as other consumable medical devices under a strong portfolio of world-class brands.

Dentsply Sirona's innovative products provide, high-quality, effective and connected solutions to advance patient care and deliver better and safer dental care. Dentsply Sirona's headquarters is located in Charlotte, North Carolina. The Company's shares are listed in the United States on Nasdaq under the symbol XRAY.

Visit www.dentsplysirona.com for more information about Dentsply Sirona and its products.

About Rapidshape

Founded in 2011, Rapid Shape is a leader in high-precision 3D printing solutions for dental, jewelry, hearing aids, and industrial applications. Combining German engineering with cutting-edge technology, the company delivers reliable, scalable systems that streamline workflows and ensure unmatched accuracy. Committed to innovation, sustainability, and global partnerships, Rapid Shape is shaping the future of 3D printing.

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