



Press Release

September 9, 2021

Henkel and Nexa3D teamed up with French start-up WeMed for 3D printing innovation

Collaboration enables the production of first additively manufactured connected stethoscope for tele-medicine

Düsseldorf, Germany, and Ventura, California – [Nexa3D](#), the maker of ultrafast polymer 3D printers, today announced that it partnered with functional polymers leader Henkel to produce the world's first additively manufactured connected SKOP stethoscope for WeMed. Based on biomimicry design and produced on the NXE400 ultrafast 3D printer using performance matched Henkel materials, the WeMed SKOP is the world's first connected stethoscope to be additively manufactured in its entirety at scale with production volumes to exceed 100,000 units per annum. Nexa3D will be showcasing SKOP at RAPID + TCT 2021, from September 13 to 15 at McCormick Place, Chicago, on booth E7428. To learn more about our SKOP Additive Manufacturing Solution, check out this [media kit](#).

Born during the COVID-19 health crisis, French start-up, WeMed saw an opportunity to quickly respond to accelerating demand for new diagnostic medical devices that support teleconsulting and remote monitoring. Nexa3D and Henkel came together with French contract manufacturing provider Third, to help WeMed develop, manufacture and launch its new product.

The SKOP is a medical device for remote auscultation. It provides excellent listening quality, essential for emergency situations and for isolated patients. SKOP takes inspiration from nature, using a biomimetic design based on the human ear to maximize performance. The SKOP geometry can only be additively manufactured using ultrafast 3D printing.

"We developed the SKOP in response to a global call for democratized, affordable teleconsulting healthcare solutions," said Cyrille Lecorq, co-founder and CEO of WeMed. "From the get-go, it was obvious to us, that our biomimicry design, could only be manufactured using 3D printing. Together with our additive manufacturing expert partner, Third, we selected Nexa3D's ultrafast 3D printers with Henkel's customized materials as the best

production solution to meet our productivity, reproducibility, precision, and cost requirements, so that we can quickly and deliver hundreds of thousands of SKOPs to waiting customers around the world."

"This project highlights the inherent advantages of our ultrafast additive manufacturing capabilities," explained Kevin McAlea, COO of Nexa3D. "The ability to perform rapid design iterations and design-based materials performance and color optimization, without any traditional manufacturing design constraints was essential to bringing this game-changing product to market quickly.

"Our printers were selected not only for the ability to produce high quality parts, but for the speed and significant economic advantage they provide," added McAlea. "Nexa3D's 20x productivity advantage means our customers can manufacture products at unmatched speed, helping businesses like WeMed make a real difference. Nexa3D is excited to partner with other businesses with innovative design ideas, who could benefit from a new additive manufacturing process."

"Leveraging our expanding product development and go-to-market partnership, we quickly developed a series of manufacturing-optimized, customized colour and performance-matched materials for the SKOP in 30 days", commented Simon Mawson, Senior Vice President, and global head of 3D printing at Henkel. "Our combined capabilities and close cooperation between Nexa3D and Henkel is open to all product companies and we invite them to work with us through every phase of their project from design, decision, support and optimization to full scale additive manufacturing operations including material formulation customization, colour matching and a variety of finishing options."

Thanks to the speed and flexibility of the custom manufacturing solution developed jointly by Nexa3D and Henkel for WeMed, the device has already been tested and embraced as a device of choice by cardiologists, pulmonologists, general practitioners, emergency physicians and nurses. The SKOP is currently being marketed and annual production volumes are expected to exceed 100,000. With Nexa3D's NXE400, contract manufacturer Third can produce production volumes with a 5X smaller fleet of printers, making its manufacturing more efficient and cost-effective.

To learn more about Henkel's innovation in 3D printing visit [LoctiteAM.com](https://www.loctiteam.com). To see how your organization can collaborate with Henkel, please email Loctite3DP@henkel.com.

About Henkel

Henkel operates globally with a well-balanced and diversified portfolio. The company holds leading positions with its three business units in both industrial and consumer businesses thanks to strong brands, innovations and technologies. Henkel Adhesive Technologies is the global leader in the adhesives market – across all industry segments worldwide. In its Laundry & Home Care and Beauty Care businesses, Henkel holds leading positions in many markets and categories around the world. Founded in 1876, Henkel looks back on more than 140 years of success. In 2020, Henkel reported sales of more than 19 billion euros and adjusted operating profit of about 2.6 billion euros. Henkel employs about 53,000 people globally – a passionate and highly diverse team, united by a strong company culture and shared values. As a recognized leader in sustainability, Henkel holds top positions in many international indices and rankings. Henkel's preferred shares are listed in the German stock index DAX. For more information, please visit www.henkel.com.

About Nexa3D

Nexa3D is passionate about digitizing supply chain sustainably. The company makes ultrafast polymer 3D printers, that deliver 20X productivity advantage, affordable for professionals and businesses of all sizes. The company partners with world-class material suppliers to unlock the full potential of additively manufactured polymers for volume production. The company makes automated software tools that optimize the entire production cycle using process interplay algorithms that ensure part performance and production consistency, while reducing waste, energy, and carbon footprints. For more information, please visit www.nexa3d.com.

Photo material is available at www.henkel.com/press

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Henkel AG & Co. KGaA



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The combination of Nexa's technology and Henkel's materials enables production volumes of more than 100,000 units per annum.



Nexa3D will be showcasing the stethoscope at RAPID + TCT 2021, from September 13 to 15 at McCormick Place, Chicago, on booth E7428.