Marconistraat 66a
2809 PE Gouda
The Netherlands

+31 (0)85 488 26 60

info@atum3d.com
www.atum3d.com

Press Release
FOR IMMEDIATE RELEASE
Gouda, Netherlands, 2 November 2021

atum3D reveals leap forward in DLP printing and post-curing at Formnext 2021

Dutch printer specialist to show DLP Station 5-365 EXZ and Curing Station for the first time

atum3D, specialists in integral 3D printing application solutions based on their proprietary Digital Light Processing (DLP) 3D printer range, will showcase DLP Station 5-365 EXZ and Curing Station at Formnext, from 16 to 19 November 2021 in Frankfurt, Germany. DLP Station 5-365 EXZ, atum3D's 365 nanometre light engine flagship printer and is based on its open resin platform, which allows using any third-party DLP print material. DLP Station 5-365 EXZ offers a 450-millimetre build envelope. Combined with its speed, accuracy, the availability of high-quality and biocompatible resins and unprecedented cost-effectiveness, it offers new opportunities for professional on-site serial fabrication, like printing personalised orthotics right in the hospital, or custom orthopaedic insoles and test shoes in the orthopaedic workshop. The other atum3D Formnext introduction allows printed parts to reach their physical end-state in a fraction of the time, significantly speeding up the integral 3D printing process. Curing Station combines powerful 360-degree UV light with radiated heat in a vacuum chamber, in fully customisable presets. As oxygen inhibits the curing process, parts are ready for use much faster with Curing Station, enabling the adoption of additive manufacturing for decentralised printing and post-processing in new applications and different industries.

"After 18 months of mostly video meetings, we are looking forward to have face-to-face interaction again at Formnext", says Juan Vertelman, Commercial Director at atum3D. "We are very excited we can finally showcase DLP Station 5-365 EXZ and Curing Station at this trendsetting physical tradeshow again after all that time".

DLP Station 5-365 EXZ is set to offer a solution for on-site printing of client-specific orthotics and orthopaedics. "The Extended Z-axis allows printing larger, longer objects, such as insoles for even the largest shoe sizes and full limb orthotics. These types of applications implicate specific resin requirements like flexibility, toughness, and biocompatibility. Working closely with our resin partners, we have successfully identified and co-developed materials that offer a perfect fit – both literally and figuratively. We believe this printer hits a sweet spot in terms of versatility, speed, accuracy, available material properties and cost-effectiveness. For example, creating personalised orthopaedic test shoes traditionally is a time-consuming process of thermoforming, which includes trial and error. Our solution decimates the lead-time and reduces manual labour, effectively allowing an orthopaedic shoemaker to spend more time with the client and significantly reduce waste and transportation costs. At a midrange price point, we feel DLP Station 5-365 EXZ ticks all the boxes to consider integrating additive manufacturing in traditional workflows", Mr. Vertelman explains.

"Curing Station, significantly speeds up the manufacturing process. When creating functional parts and objects, post-curing after print is necessary and important to reach the final material properties." Mr. Vertelman points out the unique features of Curing Station: "The ability to post-cure in vacuum instead of atmospheric pressure as well as the level of process control the user has to finetune the optimal post-curing settings for a specific resin or application are unprecedented." The absence of oxygen, combined with powerful UV light and radiated heat, results in an optimal post-curing reaction and reaching the material end-state up to ten times faster than other post-curing solutions. The Curing Station touchscreen user interface allows individually setting the vacuum, pressure, UV light dose, as well as degas and cooldown times in a series of subsequent steps, which can be saved in a curing preset. This level of control makes it possible to create the optimal one-touch post-curing preset for a resin or application, resulting in high accuracy, less distortion, and crisp details. "We feel Curing Station is a novel and valuable step towards the optimal integral manufacturing process. Combined with our Cleaning Station to thoroughly clean printed parts, production time and manual processes are reduced to a minimum", he adds.

atum3D combines both products in its Application Packs, which are ready-made but customisable combinations of DLP Station printers, Cleaning and/or Curing Stations, its intuitive Operator Station print preparation software and the functional resin that meets application requirements in terms of process and material properties. Mr. Vertelman: "We are on the forefront of resin development, working together with leading chemical companies, and actively involve expert partners to include, for example, 3D scanning and modelling solutions if the client's application case calls for such a solution."

atum3D welcomes visitors at our booth in hall 12.1, isle B, stand 59 to get further acquainted with the DLP Station range, Operator Station software and many resin options with exceptional functional properties. The atum3D team is ready to share expert advise on specific application benefits and opportunities. Contact atum3D today (www.atum3d.com or info@atum3d.com) to receive an entry voucher for Formnext 2021 free of charge.

About atum3D

atum3D offers 3D manufacturing excellence by connecting superior Digital Light Processing 3D printers to cost-effective, high quality serial production capabilities. atum3D products are comprised of proprietary hardware and software with a free choice of build materials. Based on the assessment of customer application requirements and infrastructure, atum3D creates the optimal solution applying in-depth knowledge and years of experience. Whether you're looking for efficient batch end-product manufacturing, optimisation of the preceding R&D and innovation processes or the technical platform to develop novel print materials: atum3D is here for you.

For questions and additional press information, please contact:

atum3D
Mr. Juan Vertelman
T +31 (0)85 488 2660
E juan.vertelman@atum3d.com