



**Press Release  
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**atum3D launches orthotics and orthopaedics DLP printer and vacuum post-curing**

*Print 45-centimeter objects thanks to an extended Z-axis, post-cure better and up to 10x faster*

**atum3D, specialists in integral 3D printing application solutions based on their proprietary Digital Light Processing (DLP) 3D printer range, will launch several new developments at Formnext Connect, which opens its virtual doors to visitors from November 10. The first spotlight is on DLP Station 5-365 EXZ, atum3D's new 365 nm flagship printer. Based on atum3D's open resin platform, which allows using any functional third party material, this versatile printer offers a build envelope almost double in height when compared to its closest sibling - DLP Station 5-365 - and one of the highest available in any DLP printer today. Combine this feature of DLP Station 5-365 EXZ with its speed, accuracy, the availability of high-quality and biocompatible resins and unprecedented cost-effectiveness and it offers a great fit with printing personalised orthotics right in the hospital, or custom orthopaedic insoles and test shoes in the orthopaedic workshop. Secondly, atum3D is introducing its Curing Station vacuum post-curing solution. With fully customisable presets that allow combining powerful 360-degree UV light and radiated heat in a chamber without the curing-inhibiting oxygen, Curing Station delivers thoroughly post-cured, stronger parts with crisp details in a fraction of the time. This means a leap forward for the integral manufacturing process, as parts are ready for use much faster, allowing adoption of additive manufacturing in terms of on-site printing and post-processing for new applications and in different industries.**

The development of the brand new DLP Station 5-365 EXZ was initiated following customer inquiries, says Juan Vertelman, Commercial Director at atum3D. "Several partners and customers have been asking for the ability to print longer parts for some time. At atum3D, we are keen to listen to and act on customer requests. I am proud to live up to our promise with the introduction of this latest addition to our DLP Station printer range at Formnext Connect." Partly due to the availability of new functional resins with fitting material properties, the focus applications for this state-of-the-art printer were clear. Mr. Vertelman explains: "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 chemical partners, we have successfully identified and co-developed materials that offer a perfect fit – both literally and figuratively."

DLP Station 5-365 EXZ is set to offer a solution for on-site printing of client-specific orthotics and orthopaedics. "We believe this printer hits a sweet spot in terms of versatility, speed, accuracy, 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. At a midrange price point, we feel DLP Station 5-365 EXZ ticks all the boxes to consider integrating additive manufacturing in traditional workflows."

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Mr. Vertelman explains how DLP Station 5-365 EXZ is one of two new additions to the range of atum3D products the company combines to order into customer-specific integral additive manufacturing solutions. “The second introduction, 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 the all-new Curing Station: “its most distinctive features are the ability to post-cure in vacuum instead of atmospheric pressure and the level of control the user has to create the optimal post-curing process for a specific resin or application.” The first feature, 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 latter allows individually setting the vacuum, pressure, UV light dose, degas time and the cooldown time for a series of subsequent steps, which can be saved in a curing preset. This level of control makes it possible to create the optimal post-curing preset for a resin or application, resulting in high accuracy, less distortion, and crisp details. “We think Curing Station is a unique, 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 new products in its Application Packs, which are ready-made but customisable combinations of DLP Station, potentially Cleaning and/or Curing Stations, its intuitive Operator Station print preparation software and the functional resin that meets the 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.”

This year’s Formnext Connect event is the first digital-only edition. atum3D welcomes visitors to connect with the atum3D team on [the platform](#). Log in to learn more about the DLP Station range, Curing Station, Operator Station, resins, and Application Packs. “We’ll gladly schedule a virtual meeting and advise interested parties on your specific application requirements and opportunities”, concludes Mr. Vertelman. Contact atum3D today ([www.atum3d.com](http://www.atum3d.com) or [info@atum3d.com](mailto:info@atum3d.com)) to receive a voucher code for the Formnext Connect virtual event 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.*

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