



## ORTHOPAEDIC TEST SHOE EXCELLENCE

1. Superior fit, fast.
2. Cost efficient.
3. Decimated lead-time.

Producing orthopaedic test shoes used to be a costly and time-consuming process, involving hours of craftsmanship. The brand new atum3D DLP Station 5-365 EXZ, Operator Station software and Curing Station now make the process a lot easier, faster, and cost-effective. Combining our state-of-the-art 3D print platform with BASF's Ultracur3D® ST 45 resin, you can now create a range of test shoes with exceptionally thin walls and overall thickness, without compromising flexibility or strength, in a fraction of the time. Imagine offering your customers the perfect fit much faster, with in-store production and marginal waste.

**atum 3D**

3D Manufacturing Excellence

## ORTHOPAEDIC TEST SHOE EXCELLENCE

Combining strength and flexibility, BASF Ultracur3D® ST 45 resin is optimised for scan-to-print solutions and forms a perfect fit with the orthopaedic test shoe application. By combining its exceptional material properties with the build envelope, speed and accuracy of the all-new atum3D DLP Station 5-365 EXZ, this integral production solution offers versatility and exceptional value. Create series of high-quality personalised test shoes, save costs, reduce waste and offer your customers a single or several slightly different test shoes in a fraction of the time.

## PRINT PERSONALISED TEST SHOES ON SITE

We bundle everything the orthopaedic professional needs to start printing pre-modelled test shoes immediately.

### HARDWARE

- **3D Foot Scanner**

» 3D Foot scanning and automated 3D modelling of test shoes is a highly specialised area of expertise. atum3D has teamed up with several leaders in the field, as we feel you should be able to select your scanning/modelling solution of choice. Contact us for more information about 3D scanning solutions.

- **DLP Station 5-365 EXZ**

» DLP Station 5-365 EXZ is based on atum3D's proprietary open platform DLP technology, offering exceptional speed, high accuracy and an 80% higher build envelope that allows printing series of test shoes in any size - up to 45 cm in height. This future-proof, industrial printer is based on a powerful, high contrast 365 nm light engine and an all-new Z-axis, which allows build speeds of up to 70 mm per hour in the test shoe application with BASF Ultracur3D® ST 45. DLP Station 5-365 EXZ supports adding modules over time to accommodate future developments, such as printing multi-compound materials.

- **Post-processing Automation**

» To optimise your workflow and further reduce lead-times, both post-processing steps, cleaning and post-curing, can be automated. Cleaning Station is based on the cavitation effect resulting from high frequency shockwaves in ethanol. The imploding microscopic bubbles are small enough to enter even the smallest of openings, meticulously cleaning printed test shoes. Next, Curing Station combines a large-capacity vacuum chamber with powerful UV light and radiated heat for up to 10x faster and truly thorough post-curing.

### SOFTWARE

- **Operator Station Professional**

» After modelling, preparing a print job for DLP Station is a matter of just a few clicks thanks to our intuitive Operator Station software. Features like the unique, touch-enabled user interface and MAGS AI algorithms to swiftly position multiple models, let you create and export your print job in minutes.

### RESIN

- **BASF Ultracur3D® ST 45**

» BASF created Ultracur3D® ST 45, a resin that offers excellent properties and material strength comparable to conventional, thermomoulded test shoes. Combined with a high flexibility, this allows creating test shoe designs with exceptionally thin walls and overall thickness.

## TRAINING & SUPPORT

- **Installation & Operator Training**

» atum3D offers customised, integral solutions with optimal ease-of-use. We include the option to have an expert set up hardware and software on-site and train operators in using Operator Station and DLP Station 5-365 EXZ in a hands-on session.

- **DLP Support**

» Our support doesn't end with installation and training. atum3D offers a choice of different support level and on-site maintenance options to fit your requirements.

## YOUR BENEFITS

Orthopaedic Test Shoe Excellence is an end-to-end 3D printing solution based on our DLP Station 5-365 EXZ, featuring a best-in-class combination of build envelope, speed, accuracy, versatility, and cost-effectiveness. You will be able to spend more time with patients by speeding up the technical side of things.

Summarised, the benefits of Orthopaedic Test Shoe Excellence include:

- Fast, in-store production of high-quality, personalised test shoes;
- Accurately print test shoes in any size, up to 45 cm in height;
- Exceptional material properties & flexibility to meet requirements;
- Intuitive software, easy to operate and calibrate hardware;
- Automated post-processing: ease-of-use and shorter lead-times;
- Custom solution: hardware, software, resin, training & support;
- Partner network supplies your choice of 3D scanning hardware;
- High cost-effectiveness, reusable surplus resin, marginal waste.

## WE ARE HERE FOR YOU

Adopting 3D print technology and incorporating our solutions in your existing workflow can call for tailored advice. We understand if you are curious about the material properties BASF Ultracur3D® ST 45 offers to the touch. The atum3D team is ready to answer questions, provide material samples or tailor your specific application solution to size.



Ultracur3D® is a registered trademark of BASF Group.

atum3D strives for 3-fold excellence. With proprietary **software, hardware** and an **open resin platform**, we offer exceptional **accuracy, speed** and **cost-effectiveness**. We aim to make your life easy with comprehensive **training, services** and **support**. Team up with atum3D and become a part of the next industrial revolution!

For more information and specifications, please call +31 (0)85 488 26 60 or visit [atum3D.com](https://atum3D.com).

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