



FOOTWEAR INSOLE EXCELLENCE

1. High stiffness.
2. Superior dampening.
3. Save time, costs and components.

Insoles are traditionally produced with a costly and time consuming process of thermoforming. Advances in additive manufacturing technology can now make the process a lot easier, faster and cost-effective. By combining atum3D hardware with Covestro ADDIGY™, it's now possible to create insoles with exceptionally thin walls and limited height. Imagine large-scale production of 3D printed insoles with technical properties that rival and surpass traditional insoles in terms of stiffness and dampening.

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3D Manufacturing Excellence

FOOTWEAR INSOLE EXCELLENCE PACK

Offering high stiffness combined with exceptional dampening properties, Covestro ADDIGY™ is optimised for scan-to-printer solutions and fits with the insole application. It's now possible to create series of insoles in a fraction of the time. By combining the ADDIGY™ material properties with the speed and accuracy of the all-new atum3D DLP Station 5-365 with STIRH, this Pack offers industrial production opportunities and exceptional value. The result? Less components, shorter lead times, cost savings and satisfied customers with a superior insole solution.

WHAT'S INCLUDED?

We've bundled specific hardware, software, resin, consumables and services to comprise the Footwear Insole Excellence Pack.

HARDWARE

- **DLP Station 5-365 with STIRH**
 - » Industrial grade, open platform 3D printer with a powerful state-of-the-art 365 nm light source featuring an ultra high resolution and a high contrast ratio offering build speed, accuracy and atum3D's Self-Traversing Integrated Resin Homogeniser (STIRH).
- **Post-processing automation**
 - » The Footwear Insole Excellence Pack includes the Cleaning Station, Curing Station and Finishing toolkit extensions. Removing excess resin and post-curing parts to reach their final material properties is automated, saving time and effort.

SOFTWARE

- **Operator Station Professional (single workstation)**
 - » Our intuitive software with MAGS AI prepares your parts for print in just a few clicks and features Surface Smoothness Optimisation. Included is a 1 year license for a single workstation.

RESIN

- **Covestro ADDIGY™ (1 kilo)**
 - » ADDIGY™ offers technical properties that fit the insole application.

The material stiffness is comparable with conventional, thermomolded insoles. Combined with the high elongation, this enables insole designs with thin walls and low height. Furthermore, ADDIGY™ has improved dampening properties compared to traditional insole materials.

CONSUMABLES

- **Starter Kit 5-365**
 - » Initial set of consumables and all tools you need to start working.

TRAINING & SUPPORT

- **Installation & Operator Training**
 - » We'll set up your atum3D hardware and software on-site. Next, our specialist will train the operators in using Operator Station software and DLP Station 5-365 in a hands-on training session. Included is an 8-hour installation and training day; travel time and expenses are excluded.
- **DLP Support Basic**
 - » Our support doesn't end with installation and training. This support package includes personal support by phone and online.

YOUR BENEFITS

The Footwear Insole Excellence Pack is based on our DLP Station 5-365 with STIRH, featuring a powerful light source that delivers speed in accurate and consistent repetition. The combination of our 365 nm light source and STIRH allows you to use the high quality ADDIGY™ resin by Covestro. Efficiently prepare for print with our Operator Station Professional software.

Summarised, your benefits of the Footwear Insole Excellence Pack include:

- High build speeds and best-in-class accuracy thanks to the powerful 365 nm light source and an exceptional contrast ratio;
- ADDIGY™, developed by Covestro, offers high stiffness combined with high elongation, which allows for thin walls and low height insoles;
- atum3D STIRH actively homogenises the resin as required for consistent results;
- Large build envelope enables combining several insole parts in a single run, without impacting build speed;
- Quality consumables: atum3D's Resin Tray features our proprietary coating, high chemical resistance and quick release pins; Build Platform S is installed and aligned in seconds;
- Integral product: includes resin, software, post-processing automation, consumables, installation and operator training.

WE'RE HERE FOR YOU!

We understand that incorporating innovative technology in your current business processes calls for tailored solutions. Although we believe the Footwear Insole Excellence Pack offers the best additive manufacturing starting point for the footwear industry, our team gladly customises your product bundle to order.



ADDIGY™ is a registered trademark of Covestro Deutschland AG.

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.

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