



DLP STATION 5-365 EXZ

1. Extended build envelope.
2. Unprecedented versatility.
3. Exceptional speed & accuracy.

atum3D creates 3D manufacturing excellence based on our three in-house competence centers: hardware, software, and chemistry. Being the latest addition to our DLP Station range, DLP Station 5-365 EXZ combines the atum3D proprietary technical benefits and open resin platform with a significantly larger build envelope and a versatile, powerful light source. These features create opportunities for an entirely new range of applications, like printing parts for entire shoe size ranges in footwear and orthotics parts that were previously unimaginable.

atum 3D
3D Manufacturing Excellence

ON-SITE MANUFACTURING

DLP Station 5-365 EXZ was designed for fast, local manufacturing of single pieces or series of (personalised) parts. The combination of features brought together in this industrial-grade printer make it the ideal solution for a wide range of applications. Whether installed in a factory, workshop or treatment room: DLP Station 5-365 EXZ offers both the versatility, speed, accuracy and open resin platform to help your customers with personalised printed parts, often while they wait.

ROOM FOR CREATION

With a build envelope almost double in height, DLP Station 5-365 EXZ (EXtended Z-axis) enables printing objects with dimensions of up to 190 x 107 x 450 mm. The 450 mm Z-axis is amongst the largest available in DLP printing today. When combined with features like best-in-class speed, accuracy, open resin platform, and cost-effectiveness, DLP Station 5-365 EXZ presents a truly unique solution for a wide range of applications. Examples include same-day in-store printing of personalised orthopaedic insoles or in-hospital printing of personalised arm splints, replacing traditional casts.

FAST & ACCURATE SERIAL PRINTING

One of the key benefits of the DLP process is the fact that print speeds are not impacted by adding more parts to the Build Platform. The differentiating factor lies in a state-of-the-art, highly accurate and powerful light source, combined with unprecedented Z-axis performance. DLP Station 5-365 EXZ features a purpose-built Ultra HD light source that offers exceptional power. The all-new Z-axis allows the Build Platform to accelerate 4x faster and move vertically twice as fast. Although build speeds depend on the resin, resolution and settings, build speeds of up to 150 mm per hour are possible. DLP Station 5-365 EXZ creates consistently accurate results every time.

EASE-OF-USE REINVENTED

New features for the DLP Station 5-365 EXZ include a maintenance door that covers the entire front of the printer and a slide-out mechanism for the Safety Tray, which now allows easy installation and removal. The printer also features a large touch screen user interface and the self-levelling Build Platform S, which makes printer calibration a breeze. Tightening a single screw is all it takes to perfectly align the Build Platform with the Resin Tray in a matter of seconds.

INTELLIGENT PREPARATION

Print jobs for DLP Station 5-365 EXZ are prepared using our intuitive Operator Station software. atum3D proprietary algorithms take into account specific resin properties when used in DLP Station 5-365 EXZ as well as individual printer calibration data when slicing. During this process of generating very thin printable layers that together form the actual parts, Operator Station adjusts for all known variables. This results in our ability to print, for example, truly round openings.

APPLICATION-BASED MATERIALS & PARTNERSHIPS

Although atum3D strives to create the best printers, software, and peripherals available, we understand there is more to creating your specific application solution. That is why our multidisciplinary team combines in-house hardware, software and chemistry expertise with external partnerships. For example, working closely with the world's leading print material suppliers, we can find or co-develop the resin that fits specific application material requirements. If an application process includes 3D scanning or automated modeling, we team up with leading suppliers in the field. atum3D's intrinsic flexibility has proven itself in creating unique application solutions several times over.

FUTURE-PROOF PLATFORM

Selecting DLP Station 5-365 EXZ for your on-site manufacturing application means choosing the most future-proof 3D printing platform currently available. Several optional features can be retrofitted or added whenever requirements change, or new opportunities arise. These include atum3D's Self-Traversing Integrated Resin Homogeniser (STIRH), which allows printing with multi-compound resins while ensuring consistent material properties in the resulting parts, and network modules, which allow remote operation and monitoring of DLP Station 5-365 EXZ.

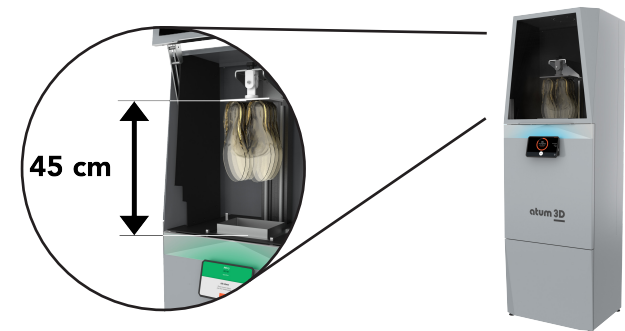
INTEGRAL PROCESS WITH CURING STATION

atum3D aims to offer full application solutions. Any 3D manufacturing process includes scanning or modeling, print job preparation, printing, and post-processing. After conveniently preparing the print job with our Operator Station software and printing, the printed parts can be automatically cleaned with our Cleaning Station. 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.

TECHNICAL SPECIFICATIONS

DLP STATION 5-365 EXZ

Intended use	Professional & Industrial
Technology	Digital Light Processing (DLP)
Colour	Grey
Projector resolution	2K Ultra HD
Print resolution (x,y)	70 µm
Build volume	192 x 108 x 450 mm
Z-axis resolution	6 to 500 µm
Z-axis guideway	Heavy duty double linear guide
Spindle	High-end ground ball spindle
Build Platform S	Easily aligned, anodised aluminum
Resin Tray	Quick release, coated, robust
Third party materials	Yes
Resin Homogeniser (STIRH)	Optional
Print speed	Up to 150 mm/hr
Light source	LED
Wavelength	365 nm
Stand-alone printing	Yes
Automated projector control	Yes
USB port	Yes
Autodesk® Netfabb® support	Pending
Ethernet	Optional
AC input	110-240 V
Operating temperature	15°C – 30°C
Weight (including Base)	136 kg
Dimensions (closed) (WxDxH)	588 x 461 x 1333 mm (incl. Base)
Dimensions (open) (WxDxH)	588 x 461 x 1961 mm (incl. Base)
Base (WxDxH)	588 x 461 x 493 mm



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**.