



DLP STATION 5-405 EXZ

1. Extensive compatibility.
2. Extended Z-axis.
3. Powerful and future-proof.

atum3D creates 3D manufacturing excellence based on our three in-house competence centres: hardware, software, and chemistry. The extended build envelope DLP Station is now available with our powerful 405 nm light engine module. In line with our vision to offer the most cost-effective, fully customisable open platform 3D DLP printers, DLP Station 5-405 EXZ allows using any available DLP resin in the 405 nm range, thanks to the proprietary atum3D open resin platform. These powerful features make DLP Station 5-405 EXZ a great fit with many applications, including architecture and footwear.

atum 3D

3D Manufacturing Excellence

MATERIAL VERSATILITY

Whether your application calls for flexible, rigid, impact- or heat-resistant materials, the open platform DLP Station 5-405 EXZ has you covered for fast, local manufacturing of both unique, one-off pieces or series of (personalised) parts. Working closely with the world's leading print material suppliers, atum3D finds the resin that fits your application material requirements. Even if your application calls for an unprecedented combination of properties, we can push the boundaries of additive manufacturing by co-developing a custom resin.

PRINT PARTS UP TO 45 CM

The Z-axis of DLP Station 5-405 EXZ (EXtended Z-axis) almost doubled in height compared to DLP Station 5-405. This enables creating parts with dimensions of up to 192 x 108 x 450 mm. The 450 mm Z-axis is amongst the largest available in DLP printing today. Thanks to DLP technology, DLP Station 5-405 EXZ allows filling up the Build Platform with different parts without impacting the print time. When combined with features like best-in-class speed, accuracy and cost-effectiveness, this printer offers a great fit with a range of applications, including mould, insert and part printing.

DESIGNED FOR SERIAL PRINTING

The purpose-built Ultra HD light engine featured in DLP Station 5-405 EXZ enables its high performance in terms of speed and accuracy. The redesigned Z-axis allows the Build Platform to accelerate 4x faster and move vertically twice as fast. This makes build speeds of up to 150 mm per hour possible, depending on the resin, part detail and settings. One of the key benefits of the DLP printing process is the fact that print speeds are not impacted by adding more parts to the Build Platform - print time is only impacted by the print height in the Z-direction.

CONVENIENT OPERATION

DLP Station 5-405 EXZ was designed with operator convenience in mind. The large touch screen and intuitive user interface allows controlling all major functions and informs the operator of status and print progress. The self-levelling Build Platform S makes accurate printer calibration an easy task, and the full-width maintenance door with a slide-out Safety Tray allows cleaning and maintenance access. All printer part and consumables, including the Resin Tray, offer the robustness and convenient exchangeability to ensure uninterrupted industrial operation.

EASY JOB PREPARATION

Creating print jobs for DLP Station 5-405 EXZ is fast and easy thanks to our proprietary Operator Station software. With exceptional ease-of-use and proprietary algorithms automatically adjusting for both specific resin properties and printer calibration data, setting up accurate and optimized multi-part print jobs for DLP Station 5-405 EXZ is a breeze. MAGS AI lets you select the part surface most important for your print result. Next, it calculates the optimal part position and creates all necessary supports accordingly - all in a single click. After slicing, Operator Station offers a what-you-see-is-what-you-get preview of every individual print layer.

APPLICATION-BASED CUSTOMISATION

Our combined in-house hardware, software and chemistry expertise allows us to customise your 3D manufacturing solution to meet virtually any requirement - whether in terms of material properties, accuracy, or process parameters, such as build time. Our experts will find or co-develop build materials or customise settings to fulfil your needs. atum3D's intrinsic flexibility has proven itself in creating unique materials and application solutions several times over.

INDUSTRIAL GRADE PLATFORM

The heavy-duty DLP Station 5-405 EXZ presents one of the most future-proof and customisable 3D printing platforms available today. Several hardware modules, enabling for example multi-compound resin printing or networking options, can be exchanged or added whenever requirements change, or new opportunities arise. Selecting DLP Station for your application ensures reaping the full benefits of 3D manufacturing, both now as in the future.

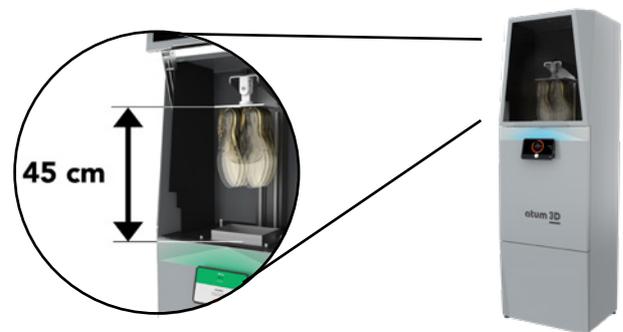
END-TO-END SOLUTION

At atum3D, we understand there is more to integrating additive manufacturing in your production process than shipping our printer - which is why we strive to provide integral solutions. Our long-standing partnerships with leading resin suppliers, 3D scanning experts, and automated modelling specialists allows us to create the solution that fits your requirements. Add our cleaning extensions and Curing Station for up to 10x faster and truly thorough post-curing, and we are ready to create your end-to-end printing solution that rivals traditional production methods.

TECHNICAL SPECIFICATIONS

DLP STATION 5-405 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	High-end double linear guide
Spindle	High-end ground ball spindle
Build Platform S	Easily aligned, anodised aluminium
Resin Tray	Quick release, coated, robust
Third party materials	Yes
Resin Homogeniser (STIRH)	Optional
Print speed	Up to 150 mm/hr
Light engine	LED
Wavelength	405 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 1.826 mm (incl. Base)
Dimensions (open) (WxDxH)	588 x 461 x 2.454 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](https://atum3d.com).

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