

OPERATOR STATION

WITH **MAGS AI** AND **SSO**

1. Intuitive.
2. Intelligent.
3. Efficient.

atum3D combines in-house expertise in the fields of hardware engineering, chemical material properties and coding software algorithms to create 3D excellence. We want to make sure your print preparation process is as efficient as can be, with exceptional results. That's why we created our Operator Station software from the ground up. Thanks to Operator Station's intuitive interface, proprietary MAGS AI intelligence, smart supports and accuracy optimising algorithms, it takes only a few clicks to prepare print jobs for atum3D DLP Station.

atum 3D

3D Manufacturing Excellence

MAGS AI

Mark, Adjust & Generate Supports

Our proprietary MAGS AI technology takes you from part import to final print job in a few clicks. You simply mark the surface of the part most important for your result. MAGS AI analyses the part's shape, keeps your selection free of supports, suggests the optimal orientation and automatically adds necessary supports. With your marked selection free of any scarring, finishing parts is as fast and efficient as possible.

SMART SUPPORTS

Support structures created by Operator Station are now jointed and interlinked. Interlinked supports make it possible to significantly reduce individual support thickness while offering increased positioning flexibility. Furthermore, all generated supports now feature positive breakaway tips. These round tips where the support touches the part allow quick and easy support removal without any risk of scarring the actual object. Edit individual support properties and apply your adjustments to all other supports with a single click. You can also choose to save your preferred support settings as default.

EFFICIENCY IN A SINGLE CLICK

Operator Station allows you to maximise your build process efficiency with a single click. You can either duplicate and create a specific number of parts or let Operator Station automatically fill the Build Platform in the most efficient way possible. This helps you getting the most out of your printer runs, as the build time remains the same.

INTUITIVE INTERFACE

Operator Station is a highly intuitive, functional tool without any unnecessary buttons, settings dialogue boxes or data unrelated to the task at hand. This way, we've made sure you can intuitively find all controls and information you're looking for. You can even control Operator Station using a touch screen device. If you prefer entering exact values for adjustments, we've included the Numeric Mode.

ONLINE RESIN CATALOGUE

The open platform atum3D DLP Station range allows you to use many different materials for your print jobs. Because we aim to optimise your results and create 3D Manufacturing Excellence, Operator Station includes a comprehensive online catalogue of resin-specific presets. Build materials can be added to Operator Station with an internet connection, or by importing a settings file on offline workstations.

SURFACE SMOOTHNESS OPTIMISATION (SSO)

The Print Settings dialogue allows you to decide between speed and finish detail by selecting the z-axis resolution setting for selected resins. Operator Station features the Surface Smoothness Optimisation option for selected resins. SSO actively enhances the part's surface quality. Using proprietary algorithms, this intelligent fill feature eliminates stair-stepping by assessing the surrounding surface areas and adjusting the lighting time at the micron level. Enabling Surface Smoothness Optimisation results in unprecedented surface smoothness.

ACCURACY OPTIMISATION

Thanks to our proprietary software algorithms, parts are optimally translated to the DLP Station hardware and firmware during the slicing process. Taking into account variables like the chemical properties of your build material and printer calibration data, atum3D achieves best-in-class accuracy levels.

CHOOSE YOUR EDITION

Operator Station is available in the Professional Edition for end-users looking for fast and hassle-free printjob preparation. Are you developing or researching new build materials or fine-tuning your application yourself? Operator Station Creator Edition allows you to control many hardware, software and lighting settings.

SYSTEM REQUIREMENTS

Operator Station is currently available for Windows PC with the following system requirements:

RECOMMENDED

- Windows 10
- i7 Processor
- 16 GB RAM
- OpenGL 2.0 or higher
- SSD with 1 GB free space
- USB port

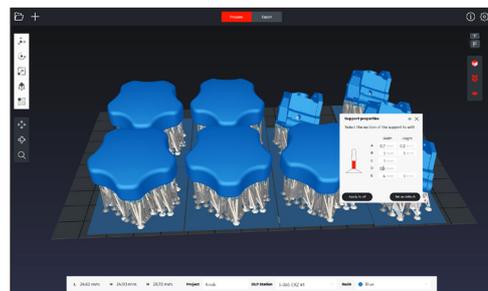
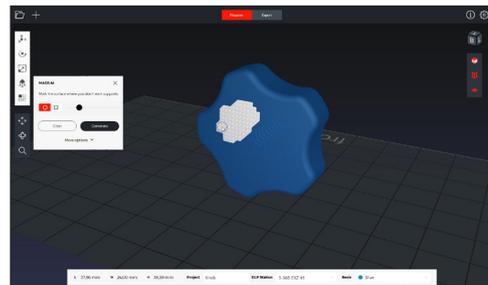
MINIMAL

- Windows 10
- i5 Processor
- 8 GB RAM
- OpenGL 2.0
- 1 GB free space
- USB port

YOUR BENEFITS

Operator Station offers exceptionally fast and easy printjob preparation.

- Efficient preparation of your print jobs in seconds.
- Intuitive user interface with touch screen support.
- Mark the part's most important surface to keep it support-free; MAGS AI adjusts the orientation and generates supports.
- Flexible interlinked support with positive breakaway tips.
- Print Settings dialogue allows you to balance speed and detail.
- Surface Smoothness Optimisation offers micron-level smoothing.
- Slicing Preview lets you check the print result in advance.
- Accuracy-optimising algorithms result reliable consistency.
- Online resin catalogue with downloadable build material presets.
- Extensive material and printer settings control (Creator Edition).



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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