



AUTOMOTIVE INTERIOR EXCELLENCE

1. End-use parts.
2. High abrasion resistance.
3. Fast and accurate.

Short lead times, fast development and design iterations and local, just-in-time production of functional automotive interior parts is here. Mitsubishi Chemical and atum3D have joined forces to connect fast, accurate and cost-effective DLP 3D printing with a specialty resin offering technical properties that fit the automotive industry. Interior trim parts, covers and frames can now be created in a matter of hours. With this abrasion resistant material incorporated in an integral manufacturing solution, Automotive Interior Excellence includes the tools to move beyond prototyping and start manufacturing end-use parts.

atum 3D

3D Manufacturing Excellence

AUTOMOTIVE INTERIOR EXCELLENCE

Every car interior contains hundreds of plastic parts, traditionally created using expensive, time-consuming and inflexible injection moulding techniques. In close cooperation with atum3D, Mitsubishi Chemical created a high-quality DLP resin tailored to the requirements of the automotive industry. Series of interior trim parts, covers and frames can now be 3D printed, allowing just-in-time production and significantly saving time and costs.

ON-SITE PART REPLACEMENT

We bundle everything an automotive parts supplier needs to start printing replacement interior parts immediately.

HARDWARE

- **DLP Station 5-365 EXZ**

» DLP Station 5-365 EXZ is based on atum3D's proprietary open platform DLP technology, offering exceptional speed and high accuracy. This printer offers an extended Z-axis, which results in an 80% higher build envelope that allows printing series of parts up to 45 cm in height. This future-proof, industrial printer is based on our powerful, high contrast 365 nm light engine which allows build speeds of up to 75 mm per hour in the with this specialty Mitsubishi Diabeam™ resin.

- **Post-processing Automation**

» To optimize 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, meticulously cleaning printed parts. Next, Curing Station combines a large-capacity vacuum chamber with powerful UV light and radiated heat for up to 10x faster, 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 the print job in minutes.

RESIN

- **Diabeam™ 3D-H01C resin**

Mitsubishi created this Diabeam™ resin, with technical properties that offer a good fit with the automotive interior application.

	Diabeam™ 3D-H01C
Hardness (Shore)	D79-D80
Tensile strength (Mpa)	33
Tensile modulus (Mpa)	1.000
Elongation at break (%)	19
Application	Interior parts, trims/covers, frames

TRAINING & SUPPORT

- **Installation & Operator Training**

» Our team will set up atum3D hardware and software on-site. Next, our specialist will train the operators in using Operator Station software and DLP Station 5-365 EXZ in a hands-on training session.

- **DLP Support Basic**

» Our support doesn't end with installation and training. This support package includes personal support by phone and online.

YOUR BENEFITS

Automotive Interior Excellence is based on our DLP Station 5-365 EXZ, featuring our powerful light engine that delivers speed in accurate and consistent repetition. This 365 nm light engine allows you to use Diabeam™, a high-quality resin by Mitsubishi Chemical. Efficiently prepare for print with our Operator Station Professional software.

Summarised, your benefits of Automotive Interior Excellence includes:

- High build speeds and best-in-class accuracy thanks to the powerful 365 nm light engine and an exceptional contrast ratio;
- Diabeam™ resin developed by Mitsubishi Chemical for use with atum3D hardware balances heat resistance and impact resistance, combined with high abrasion resistance;
- Large build platform with an 80% higher build envelope enables printing larger parts and combining several 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 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 this Diabeam™ resin offers to the touch. The atum3D team is ready to answer questions, provide material samples or tailor your specific application solution to size.



Diabeam™ is a registered trademark of Mitsubishi Chemical

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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