



ADDITIVE MANUFACTURING

1. Speed up.
2. Flexibilise.
3. Reduce costs.

atum3D connects superior Digital Light Processing (DLP) technology to cost-effective, high quality serial manufacturing capabilities. With best-in-class hardware, intuitive software and an open resin platform, our products incorporate features that rival traditional production methods in many applications. With atum3D, fixed costs become flexible expenses. Reduce stock levels and risks by decentralised, just-in-time production, instantly create high quality prototypes in-house at lower cost or produce series of (personalised) parts, designs or moulds in any available material.

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3D Manufacturing Excellence

atum3D provides application-specific, integral solutions that let you reap the full benefits of additive manufacturing. The term 'additive manufacturing' includes a broad range of different technologies. We've summarised the potential benefits of additive manufacturing, the specific benefits of DLP technology versus other additive manufacturing technologies, and ultimately the unique added value atum3D offers compared to DLP equipment suppliers.

ADDITIVE MANUFACTURING

Additive manufacturing refers to the process by which digital 3D design data is used to build up a part in layers by depositing material. The strengths of additive manufacturing lie in those areas where conventional manufacturing reaches its limitations. When compared to traditional methods, like injection moulding, additive manufacturing methods offer many significant benefits:

Efficiency

- Create complex parts without impact on efficiency/cost
- Create many different parts without impact on efficiency/cost
- Little waste
- Accurate production planning
- Low investment (no moulds)
- Short time from development to production

Flexibility

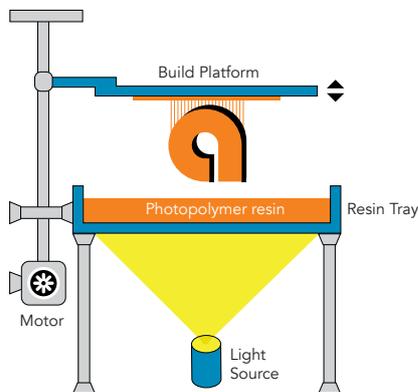
- Design determines production
- Easy modification & redesign potential for product customisation

Specifications

- Complex structures
- Lighter solid parts with semi-hollow interior

DIGITAL LIGHT PROCESSING (DLP)

Digital Light Processing (DLP) is an additive manufacturing process based on photopolymer resins that react with light and cure to form a solid in a very precise way and speedily produce accurate parts.



The key benefits of DLP over other additive manufacturing technologies can be summarised as follows:

- High resolution
- Flexibility
- Material use efficiency
- Cost-efficiency
- Diverse material properties
- Strong fusion between layers

ATUM3D

Integral DLP solutions for both R&D and production atum3D developed our range of industrial grade hardware, firmware and software in-house from the ground up. That allows us to offer a unique proposition compared to other DLP suppliers.

Accurate

The combination of proprietary hardware and software allows atum3D to achieve an unparalleled accuracy and surface finish. By automatically adjusting for chemical resin properties and printer calibration data, we're for example able to create truly round openings.

Fast

Our Operator Station software takes you from model import to final print job in just a few clicks. DLP Station build speeds are best-in-class. Post-processing is largely automated thanks to our Cleaning Station and Curing Station extensions.

Open Platform

We created an open platform which allows resin suppliers to develop state-of-the-art resins. Based on your application and specifications, we'll advise you on the optimal build material - or create it together with our partners.

Cost-effective

atum3D products require a midrange investment, and the running costs are low. Add speed, flexibility, low waste levels and low consumable use. atum3D offers exceptional quality and accuracy resulting in unparalleled value.

Training & Support

At atum3D, we aim to make our customer's life easy. For every new customer we welcome to the atum3D family, we offer training and support to make sure you get the most out of our products.

Would you like to know what atum3D's products and services can do for your application? Contact our experts today!



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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