

Why

do I have to **to figure out additive manufacturing myself?**

You don't.

atum3D connects superior Digital Light Processing (DLP) technology to cost-effective, high quality serial manufacturing capabilities for the first time. With extensive in-house expertise regarding hardware, software and resins, our products incorporate all properties to rival traditional component production methods. With atum3D, you can now flexibilize costs and reduce stock levels and risks by manufacturing just-in-time.

The term 'additive manufacturing' includes a broad range of different technologies. We've summarized the potential benefits of additive manufacturing, the specific benefits of DLP technology versus other additive manufacturing technologies and ultimately the unique added value atum3D products offer compared to other DLP machines. With atum3D, you're able to reap the full benefits of the additive manufacturing potential.

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3D Manufacturing Excellence

ADDITIVE MANUFACTURING

Additive manufacturing refers to a process by which digital 3D design data is used to build up a component 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 molding, additive manufacturing methods offer a number of significant benefits:

Efficiency

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

Flexibility

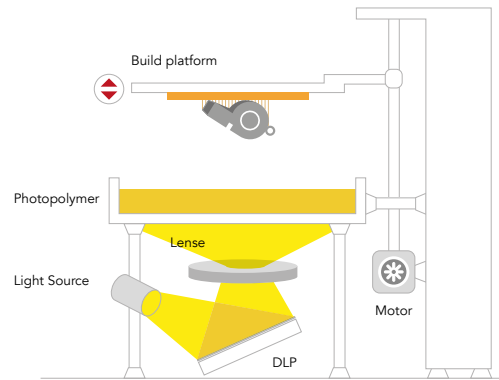
- Design determines production
- Easy modification & redesign potential for product customization

Specifications

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

DIGITAL LIGHT PROCESSING

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 to speedily produce accurate parts.



The key benefits of DLP over other additive manufacturing technologies are:

- Resolution
- Flexibility
- Material use efficiency
- Cost efficiency
- Material properties
- Fusion between layers

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The first DLP Machine for both R&D and production

atum3D developed our industrial-grade 3D manufacturing hardware, firmware and software in-house in the Netherlands, from the ground up. By optimizing the integral DLP process, we open up the possibility for high volume manufacturing of finished components, ready for further integration, for the first time. atum3D benefits over other DLP suppliers include:

- Exceptional accuracy, up to 6 μm
- Open platform: use any resin, mimic ABS and PU or create your own specifications together with our experts
- Large build platform: produce an entire range of components in a single run
- Instant implementation of component improvements or design modifications
- Integral manufacturing line: minimal post processing and truly finished product
- Designed for efficiency and scaling up from single piece to serial or mass production



atum3D is here to assist you every step of the way. atum3D is ready to discuss the optimal 3D manufacturing solution in your application or industry. But we don't stop there. Our services include installation, training and support for your staff, Tolerance Tuning and material R&D. Team up with atum3D and become a part of the next industrial revolution!

www.atum3D.com

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