FAST. AUTOMATED. COST-EFFICIENT.

STEREOLITHOGRAPHIC 3D PRINTING FOR INDUSTRIAL ADDITIVE MANUFACTURING



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precisionPrint





Pioneering Plastics

PRECISIONPRINT PRECISE AND COST-EFFICIENT 3D PRINTING

precisionPrint is a system based on stereolithography for industrial additive manufacturing. This laser system enables printing of extremely high-precision products in very high quality, at high speeds and at low cost. These advantages provide innovative added value in industrial, medical and sports applications, to name just a few.

Typical applications

Service Providers



(e.g. prototypes, short runs, spare parts) Manufacturing on an industrial scale. Regardless of the number of units, precisionPrint enables cost-efficient manufacturing and generates efficiency and process reliability in professional applications.



(e.g. shoe soles, helmets, glasses, bicycle seats) Mass customization: The products can be adapted individually, providing comfort and convenience in everyday life.





(e.g. individualized components for hearing aids, prosthetic devices)

In medical applications, additive manufacturing delivers high-quality, high-precision products that support the health of each individual.

Electricals & Electronics

Sports & Leisure



(e.g. connector housings, cable guides) Highly dimensionally stable precision parts for the cost-efficient production of short runs or customized solutions, as well as spare parts.

WHAT IS STEREOLITHOGRAPHY?

Stereolithography is an additive manufacturing process that enables high-resolution printing of products using a UV laser. This provides advantages such as high detail accuracy as well as the ability to create smooth surfaces.

Liquid photopolymer resins are used for manufacturing.

Depending on the requirement, transparent, translucent or opaque products can be produced in many colors with a high-quality matte or glossy surface. Products can be flexible (as in the case of shoe soles, for example) or highly precise, highly rigid and temperature-resistant (as required in the E&E industry).

PRECISIONPRINT THE HIGHLIGHTS

Additive Manufacturing Mass Production

With our automated 3D printing process, you can reduce the need for constant human assistance, significantly enhancing the reliability of your production line.

- Ideal for the medical, sports and E&E industries
- Cost-efficient mass production of smaller parts
- High resolution and surface quality

Max. resolution across the entire build plate

We break free from the limitations of small-scale 3D printing, offering the maximum build size without sacrificing precision and speed.

- Dynamic resolution with 18 to 80 microns
- Layer resolution 25 to 250 microns
- up to 90 m/s scan speed

Industrialized Additive Manufacturing

Fully automated industrial production systems help ensure that all steps are coordinated, with smooth transitions from one to the next.

- Magazine towers for build plates reduce manual labor and maximize the system's efficiency
- Industrial-grade, long life lasers and high-quality components bring industrialization to Additive Manufacturing
- Build volume (mm): 250 x 250 x 400

Scalable End-to-End Process

Scalable end-to-end process for series production enables high process reliability.

- Dedicated post-processing for optimum part quality
- User interface for fast orientation and easy operation
- User-friendly, ergonomic HMI design



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