



SYSTEMS3D

innovation in 3D solutions

Services

We offer a wide range of processes that are suitable for every commercial, industrial, and consumer – based application and all our equipment provides industrial grade accuracy.



Limited

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Services at Systems 3D Group



FDM 3D Printing Process

FDM 3D Printing can produce sturdy, rigid and functional components for all industries.

Materials available:

Nylon 12: For applications requiring: repetitive snap fits, high fatigue resistance, strong chemical resistance and press (friction) fit inserts.

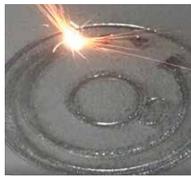
PC-ISO: Is a strong, heat-resistant engineering plastic.

ASA: Exceptional UV stability and the best aesthetics of any FDM thermo plastic. This thermo plastic is available in a wide variety of colors.

PC (Polycarbonate): Offers accuracy, durability and stability, creating strong parts that withstand functional testing and the rigors of real life industrial application.

PC-ABS: Offers the most desirable properties of both LPC + ABC. This combo offers superior strength and heat resistance.

PLA: Is a hard, strong material with a low rate of thermal expansion.



SLM 3D Metal Printing Process

SLM 3D Metal Printing is a technology implementing a high-power laser to melt and fuse metallic powders together. SLM is considered to be a subcategory of Selective Laser Sintering (SLS). The SLM process has the ability to fully melt the metal material into a solid.

Materials available:

Stainless Steel: Used for manufacturing acid and corrosion resistant components. Finished items can be post process machined, additionally hardened and surface finished in a variety of ways. Chemical composition according to 1.4404, X 2 CrNiMo 17 13 2, 316L.

Hot Work Steel: Used for a wide variety of components from tooling to functional components. This material can be post-processed machined and hardened. Chemical composition according to 1.2709.

Aluminium Alloy: Used for manufacturing lightweight components. Composition CL 30AL According to DIN EN 1706 AISi12(a) / DIN EN 1706 AISi10Mg(b).

Titanium Alloy-Ti6Al4V: Used to produce lightweight components and components of super rigidity. Composition According to ASTM F136-02a (ELI Grade 23).

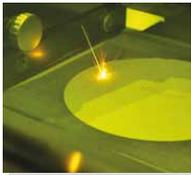


SLA 3D Printing Process

SLA is a form of 3D printing technology using a photosensitive polymer which is activated by a controlled light source. The light and the build table are controlled by CNC functions.

Materials available:

Accura60: Clear plastic for quickly producing, rigid and strong parts.



SLS Plastic Printing

Produces accurate and highly rigid finished products, through the use of a laser in a controlled environment.

Materials available:

Duraform: Durable **POLYAMIDE (PA)** (nylon) creates accurate and repeatable parts as demanded by manufacturers.



LDT-Laser Deposition Technology

Repairs surfaces on parts by first machining down the worn surface and building it back up by depositing cladding material in thin layers to restore the worn surface.



Injection Mould Inserts Conformally Cooled (Free Analysis)

A design strategy implemented when designing injection mould inserts to Channel coolings processe, improve quality of moulded products, reduce costs.



3D Scanning in High Resolution

High Resolution 3D Scanning produces digital models for design, model modification and reverse engineering. Products can convert legacy models into solid models useable for all production methods.



3D Design & CAD Work

Designing a 3D Digital File is a technical and complex process. ME 3D can assist with the design of your project by providing 3D Design or CAD work.



CNC Plasma Cutting

All types of metal sheets producing either simple or complex shapes in 2D. We can process a large variety of metals and alloys with our CNC plasma operations. This process is highly accurate and can produce complex shapes in 2D form.



CNC Machining and Turning

Used to create an original part or be used to enhance a 3D Printed component. In collaboration with our 3D Design capabilities we offer CNC Milling and CNC Turning as a rapid service.



CNC Routing of Wood and Plastic

Produces highly accurate complex shapes. We produce items for industry, sign makers, cabinet makers and hobbyists.



Vibratory Finishing

Enhances surface finishes of components produced from a variety of substrates. It can also be used for deburring, radiusing edges, smoothing surfaces, polishing surfaces or removing surface grease either one by one or in mass quantities.



Virtual Warehousing

Inventory Management eliminates the need to keep items on the shelf reducing stockholding and improving cash flow. You can upload your digital files to our Portal.



Post Processing

ME 3D can post process any component that we produce no matter if it is metal, alloy, wood, plastic or any other material. Contact us to discuss the specifics of your project. We can take your project successfully from start to finish.