**Rapid3D: Get Unique Designs and Models of 3D Printing**

***Overview of 3D Printing:***

With layers of materials such as plastic, metal, or resin, 3D printing, also known as additive manufacturing, produces multidimensional objects from a computer's design. A CAD model is used as a starting point, after being cut into layers by special software, the object is produced by the printing machine. Utilizing the support of this technology, detailed and specific designs may be created that are difficult to accomplish by employing conventional techniques. 3D printing, which is widely used by various other industries, is perfect to create prototypes, custom parts, and medical devices easily, rapidly, and affordably.

***Rapid3D’s History:***

Having knowledge of 3D printing and the successful completion of 7 years, are well-trained in the field of 3D printing and satisfy our clients in a most effective way. The experts are well educated in creating end-use products by consuming low wastage at high quality. The service is unique, and customers have the option to choose the materials with the help of Rapid3D. They focus on several industries in the creation of custom 3D models, like aerospace, automotive, architecture, medical, casting and electronics. We are near you to help with offering a 3D printing service at a low cost by delivering it within 2–3 days. Upload your formats of STL, STEP, IGES & XT format files to quote.

***How Does it Work?***

Here are the few steps that a 3D printing process is done in an efficient manner which is divided into five segments. They are as follows:

* Make an instant quote
* Share Your Files
* Select Your Material and Get Recommendations
* Creation of Product at High Quality
* Deliver at the right time

**Make an instant quote:**

Fill out the details of your name, email address, phone number, subject and the need of 3D printing material. Your information should be right while filling the form and will be helpful for them to contact you.

**Share Your Files:**

Upload your file formats of STL, STEP, IGES and XT as a sample for your customized 3D product. Then they start designing your 3D model by using modern techniques at low volume of production with high quality.

**Select Your Materials and Get Recommendations:**

You have the option of selecting your material and the experts will help with it. They guide you to choose the right material and explain the production process in detail. After proper selection, they start the production process.

**Creation of Product at High Quality:**

After these steps are completed, the professionals start to produce the product according to the customer needs without compromising on quality. It can be any model, they customize it in a satisfactory way as an exact one.

**Deliver at the right time:**

The product gets ready within a short period of time after choosing a material. Once the output is ready, they check the product and contact you immediately. The cost will be comparatively less which starts from Rs.1000.

***Different Services Offered by Rapid3D:***

**3D Printing Service:**

Current industrial-grade equipment is the service offered to fulfill all of your 3D printing needs. With multiple materials at the ready, guarantee the ideal match for your specific application and working conditions. The knowledgeable experts are here to help you with choosing the best material for your undertaking.

**3D Scanning and Modelling:**

A 3D modeling and scanning service makes realistic digital copies of actual objects. Team members gather detailed 3D data using cutting-edge scanning technology, which is helpful in quality assurance, product design, and reverse engineering. For prototypes, the team ensures accuracy and excellent 3D models customized to meet your requirements.

**Functional Prototyping:**

They will 3D print the complicated parts with convenience, providing you to get functioning prototypes made through additive manufacturing. Before you spend money on mass production machinery, these models duplicate the appearance and performance of production parts.

**3D Jewelry Printing:**

Enabling designers to create pieces that would be impossible to create using traditional manufacturing methods, thus the service is offered by them using modern machines. 3D printed jewelry is more affordable to produce than traditional jewelry, making it more accessible to a wider range of people.

**Conceptual Modeling:**

Early in the design cycle, conceptual modeling helps in understanding user demands and provides advice for final designs. Time is saved and usefulness is enhanced by quickly and simple designing models. The transition from 3D digital models to real components lowers costs, accelerates product development, and improves design communication to enable quicker, more informed decision-making.

***Technologies used in 3D Printing Service:***

**Selective Laser Sintering (SLS):**

SLS is a 3D printing process that uses a layer to fuse powder into solid structures. Uses the EOS Selective Laser Sintering Machine and real thermoplastic powdered material named **Nylon PA12** materials to produce parts for end-use products. The output became more exact as the real one and I got satisfied by their service.

**Stereolithography (SLA):**

Through layer-by-layer drying of resin materials exposed to UV light, stereolithography technology functions. The dimensional accuracy and microscopic, fine features of SLA are among its greatest benefits. Because of the excellent surface polish, the technology performs well for visual models and details with pleasing aesthetic components.

**Fused Deposition Modelling (FDM):**

Through the application of a heated nozzle to release thermoplastic material, fused deposition modeling (FDM) creates objects layer by layer from a cut 3D model. The final component is formed when the layers fuse together as they cool. FDM is a popular tool for producing functional parts and strong prototypes that can handle a variety of materials and colors.

**Scanning and Reverse Engineering:**

The process of scanning is the process of reverse engineering in which the 3D printed product is reversed to discover the making process. It will bring knowledge to the customers about how the objects are created. Rapid3D also offers scanning services at a minimal cost. The services are offered by GOM - Blue Light Scanners and White Light Scanners.

***Industries Specialized In:***

Rapid3D provides 3D printing and scanning services in all over industries like aerospace, automotive, architecture, medical, education, electronics, casting and customized gifts. In each and every field, the experts are specialized and gained proper knowledge of 3D printing service.

***Locations:*** Locations they offer 3D printing service are as follows:

* Bangalore ([3D Printing in Bangalore](https://rapid3d.co.in/3d-printing-bangalore/))
* Coimbatore
* Chennai ([3D Printing in Chennai](https://rapid3d.co.in/3d-printing-chennai/))
* Hyderabad ([3D Printing in Hyderabad](https://rapid3d.co.in/3d-printing-hyderabad/))
* Madurai
* Thrissur
* Kochi
* Hosur ([3D Printing in Hosur](https://rapid3d.co.in/3d-printing-hosur/))
* Mysore and all over India.