

# ADS 3D TECH

**3D** Printing  
Scanning  
Services



# Are you a Hardware Startup or a Product Development Company ?

Then 3D Printing or Additive Manufacturing is ideal for you in turning your project ideas into physical reality. When many iterations of a part are needed 3D Printing is a great choice as it reduces cost & development time. This strategy is saving companies a lot of time & money while also reducing waste & your carbon foot print.



## How Rapid 3D can help you?



If you need a prototype



If you need a small batch Quantity



If you have a part & need a 3D CAD model

## How to choose the right 3D Printing method ?

Technology	Lead Time	Tech Cost	End use Application	Heat Resistance	Finish	Post Processing
FDM	1-2 Days	₹ ₹	●●●	●●	Layer Lines	As printed
SLA	2-3 Days	₹ ₹ ₹ ₹	●●	●●	Smooth	Painting
SLS	2-4 Days	₹ ₹ ₹	●●●●●	●●●●●	Grainy	Dyeing / Painting
DLP	1-2 Days	₹ ₹ ₹ ₹ ₹	●●●●	●●●●	Smooth	As printed

## Stereolithography

# SLA

Stereolithography (SLA) is an additive manufacturing process that belongs to the Vat Photopolymerization family.

In SLA, an object is created by selectively curing a polymer resin layer-by-layer using an ultraviolet (UV) laser beam.

SLA technique provides an extreme level of detail with smooth surface finishing with almost non-visible layer lines.



## Applications

Prototypes in Automotive, Enclosure & Shoe Mould etc

**Max Build Volume**  
850 x 800 x 500 mm

### Highlights

Accurate  
Smooth  
Fine Detail

**Accuracy**  
± 0.2mm

**Material**  
ABS Transparent  
ABS White



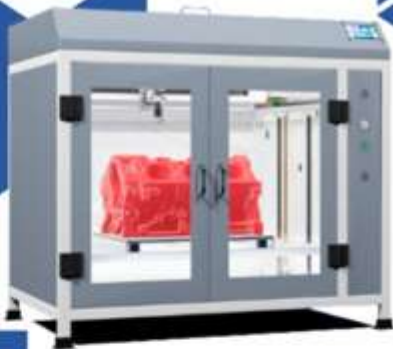
# Fused Deposition Modeling **FDM**

FDM is the most widely available form of 3D Printing.

FDM is great for producing models & mock-ups for your designs.

Verify your CAD models quickly and easily with a wide range of materials.

We employ industrial grade FDM printers to give you exceptional results, in time, every time.



## Materials

ABS, PLA  
TPU, ULTEM 9085

## Max Build Volume

300 x 300 x 300 mm

## Highlights

Cost Effective  
Fast Turnaround  
Low Volume Production

Differential Gear Box



Sand Casting Pattern



Enclosure Prototype



# MANUFACTURERS OF PATTERNS AND DIES FOR ALL CASTING PROCESS CNC Machining Services

Custom machined parts with complex geometries & get end-use products in the shortest possible time.

We operate with multiple machines & wide variety of materials and surface finishes, guaranteeing quick turnaround & quality of one-off prototypes and production parts.

## Materials

Carbon Steel  
Stainless Steel  
Aluminium  
Brass  
Plastics



# 3D Scanning & Reverse Engineering

Reverse Engineering using 3D scan data is the most effective way to generate a CAD model from a physical object that has any kind of complex or free-form shape.

Accuracy  
30 Microns

Scan Your Part &  
Receive a 3D Cad Model

## ? Why Scanning

Create a 3D CAD model out of a prototype or obsolete parts

Make changes & improvements to a product's design

Benchmark & analyze of competitor's part

Scan your part & compare it against the nominal model for 3D inspection



## Applications



## ADS 3D TECH

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