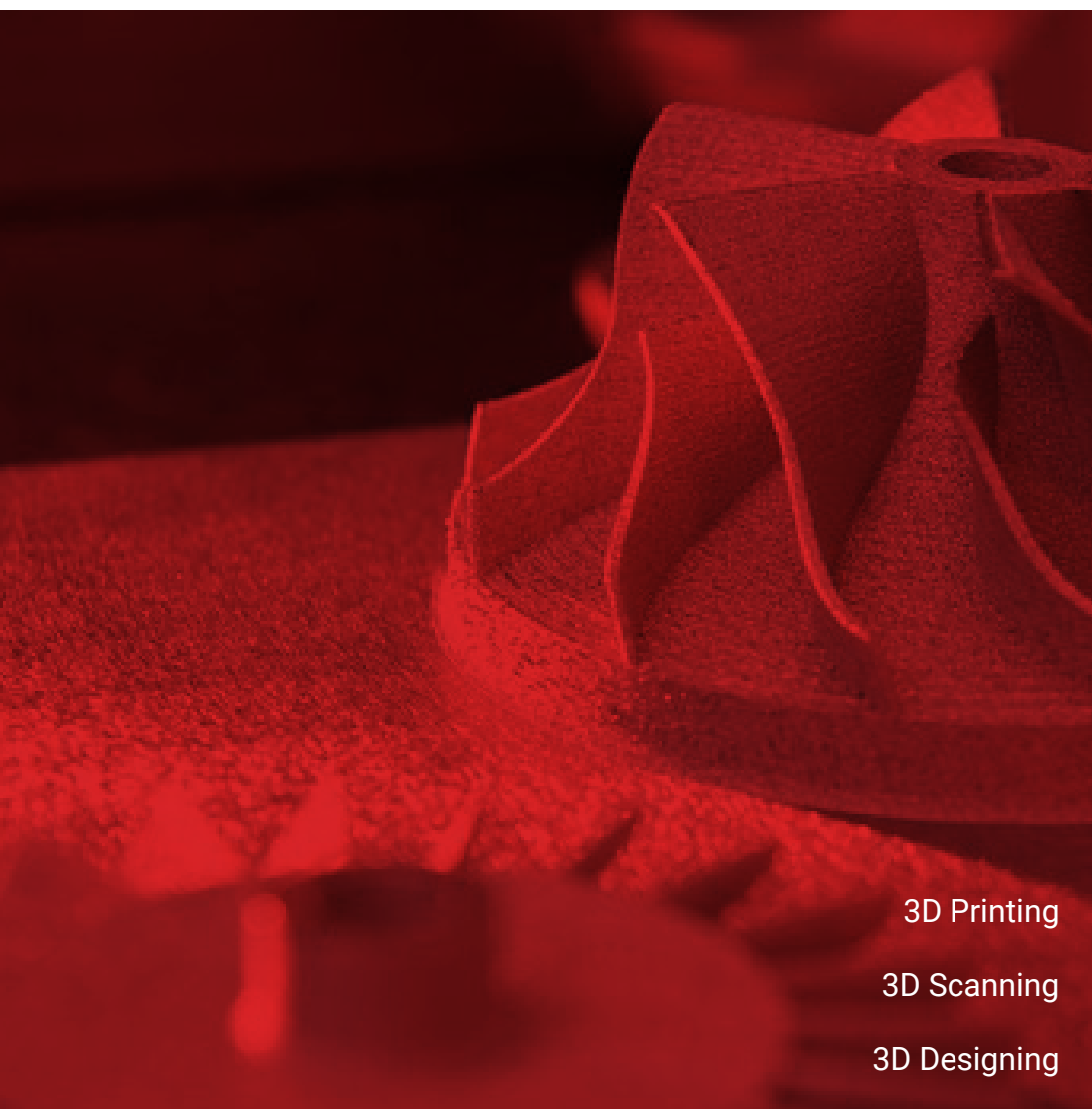


think **3D**

# RAPID PROTOTYPING

From single prototype to multiple end parts in matter of days



3D Printing

3D Scanning

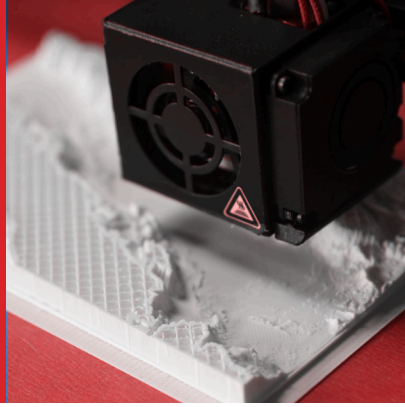
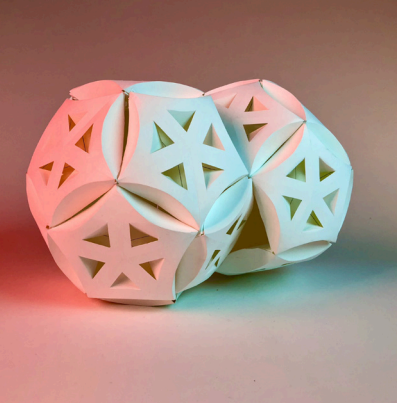
3D Designing



CNC Machining

Vaccum Casting

Injection Molding



## OUR VISION



Our vision at think3D is to enable local manufacturing in India  
by helping entrepreneurs, innovators & product designers  
come up with high quality products at low cost.



### WE ARE PROUD PARTNERS OF “MAKE IN INDIA” INITIATIVE



**60 MACHINES  
IN-HOUSE**



**1M+ PARTS  
DELIVERED**



**5000+ HAPPY  
CUSTOMERS**



# ABOUT US

think3D is a 3D printing startup founded in 2014 by a team of three BITS Pilani and IIM Calcutta batch mates to democratize manufacturing in India through 3D Printing. Over the last 5 years, think3D scaled up aggressively to become one of India's largest integrated 3D printing service

providers. At think3D, we offer 3D Scanning, 3D Designing, 3D Printing, CNC machining, Injection Molding services all in-house. Our motto at think3D - "Anyone can walk into our facility with an idea in his mind and leave with product in his hand".

## INDUSTRIES WE CATER TO



MEDICAL



AUTOMOTIVE



AEROSPACE



MANUFACTURING



ARCHITECTURE



# 3D PRINTING

At think3D, we have one of the best 3D printing setups in India. With a wide range of industrial 3D Printing machines in-house, we offer an entire gamut of 3D printing services ranging

from metals to plastics. Our in-house 3D printing technologies include FDM, CJP, SLS, DMLS, MJF, SLA, DLP, MJP, PJP.

## OUR VARIOUS 3D PRINTING OFFERINGS



FDM



SLA



DLP



SLS



MJP



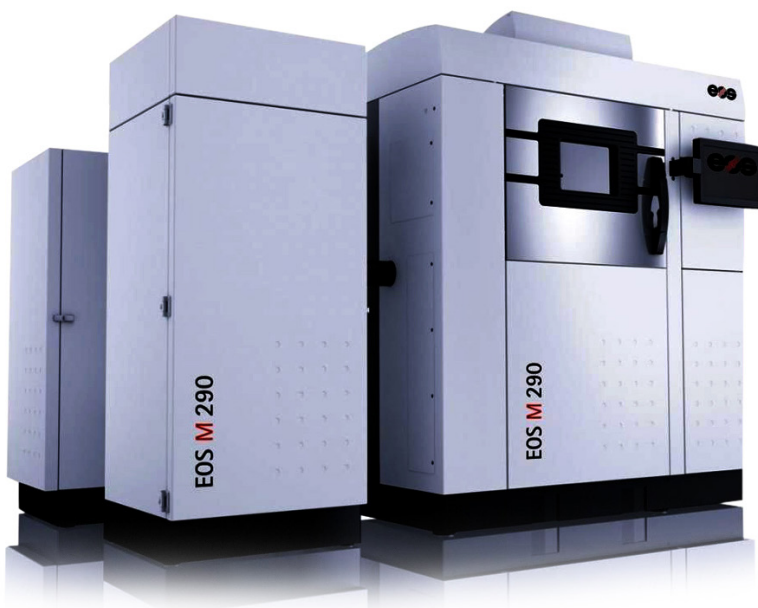
MJF



CJP



DMLS



## APPLICATIONS

3D printing is an on-demand manufacturing technology and thus have wide applications in varied industries. Various applications of 3D printing include local manufacturing, bridge production, custom manufacturing, functional model, rapid prototyping and patterns/ molds.



# CNC MACHINING

CNC is a “subtractive” process used to produce parts via physical removal of material using computer-controlled machining process. CNC Machining offers highly accurate, hundreds or thousands of identical parts over extended periods from same CAD file. We operate an agile and flexible tool room, specialising in

one-off and small to medium production batches upto 1000 pcs. think3D works with plastics, composites and all types of metals, including copper and brass. With around 10 CNC machines in-house, we offer a range of machining services in 3-Axis & 5-Axis with lots of post processing options.

## OUR VARIOUS CNC MACHINING OFFERINGS



CNC 5 AXIS



CNC MILLING



SURFACE GRINDING



PRESSING MACHINE



CNC TURNING



## APPLICATIONS

CNC machining is well established technology for product manufacturing. All kinds of metals, plastics, composites can be easily machined to a high degree of accuracy. It is used for manufacturing high strength metal parts and for molds.

# VACUUM CASTING

Vacuum Casting is a copying technique used for production of small series of functional plastic parts using two-component polyurethanes and silicone molds. Vacuum Casting is known for its fast production of high-quality prototypes or end-use products. At think3D, we can accurately produce the prototypes with original colour, over-mold, texture and geometrics from the masterpiece. One silicon mold can cast about 10-20 parts based on complexity, painting, original colour, size and other factors.



think3D offers affordable vacuum casting solutions to enhance creativity and innovation.



## APPLICATIONS

Vacuum casting is used for testing of pre-launch products, concept models & prototypes. This process is used when air entrapment is a problem, there are intricate details or undercuts, or if the material is fiber or wire reinforced. We can offer Vacuum Casting services in wide range of materials like rubber, ABS, polypropylene, nylon, etc.

# INJECTION MOLDING

Injection molding is by far the most versatile of all techniques. This method is suitable for the mass production of products with complicated shapes, and takes a large part in the area of plastic processing. The flexibility in shape and size achievable by the use of injection molding has consistently widened the boundaries of design. We have two horizontal injection molding machines of 200 ton & 180 ton each and one vertical injection molding machine in-house. With these three machines, we are able to make a wide variety of custom prototypes from small batches to large assemblies. With our qualified engineers we will



work with you to determine the best materials, design and assembly methods necessary to create superior products.

## APPLICATIONS

Injection molding is generally used for mass production of components. It is also suitable for prototyping, bridge tooling, low volume production of end parts. The process relies on a mechanism that injects thermoplastic material into the mould cavity which then solidifies into finished part.



# 3D SCANNING

3D scanning is a process of capturing point cloud data of a physical object in order to recreate its shape and appearance digitally. At think3D, we use the most efficient scanning methods and industry-leading scanners to

capture millions of data points of a structure or component. Our team of expert in-house CAD designers produce custom deliverables ranging from point cloud data, 2D drawings, 3D models, RE, and dimension inspection.

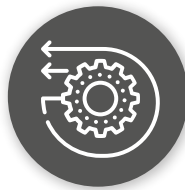
## OUR VARIOUS 3D SCANNING OFFERINGS



OBJECT DIGITISATION



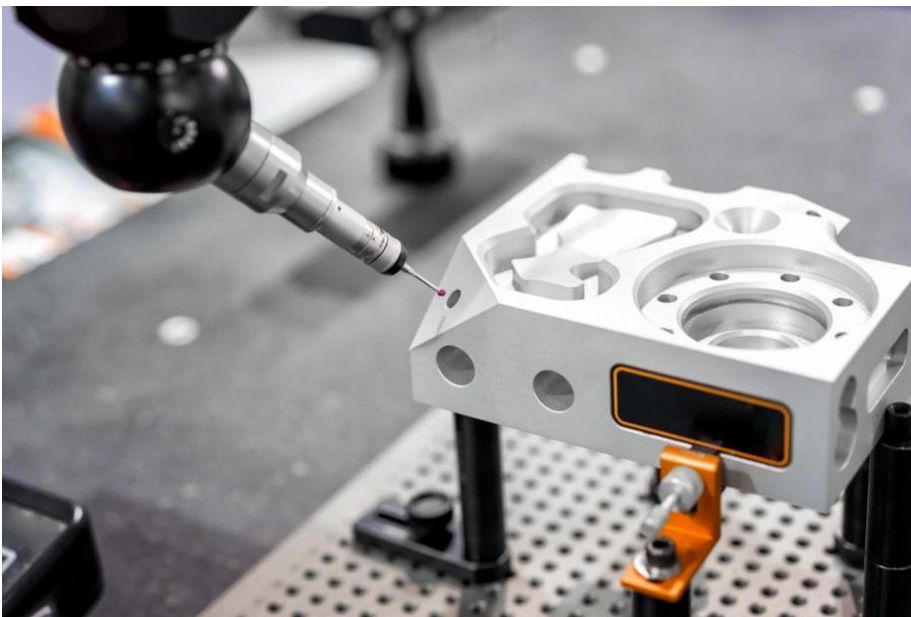
DIMENSION INSPECTION



REVERSE ENGINEERING



CMM



## APPLICATIONS

3D scanning is widely used in industrial design, engineering, and manufacturing due to their ability to quickly and precisely capture the required data. Most common applications of 3D Scanning include reverse engineering, dimension inspection and object digitisation.



# 3D DESIGNING

With best-in-class 3D modelling softwares & an expert in-house 3D design team, we offer highly quality CAD modeling and organic modeling services using softwares like solidworks, NX, Maya, Zbrush. Our team can provide services for machined parts to consumer products supporting a variety of end use materials.



Photo by Zmorph on Unsplash

## OUR VARIOUS 3D DESIGNING OFFERINGS



3D RENDERING



ORGANIC



INORGANIC



3D MODELLING



## APPLICATIONS

3D modelling services not only speeds up the design process but also enables the client to understand the flaws so that they can choose the best manufacturing technique. 3D modelling involves mesh repair & correction, miniature & character modelling, product development, reverse engineering, design enhancement, strength analysis, etc.

# ONE STOP SHOP

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## 3D Scanning

For converting an existing physical object into a 3D model for further enhancements.

## 3D Designing

For modifying an existing CAD model or for developing a new CAD model from scratch.

## 3D Printing

For the reiterative validation of CAD model & for batch production.

## Mass Production

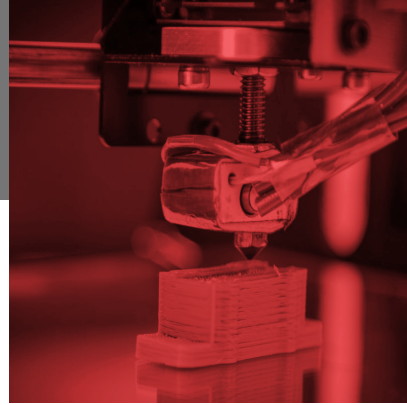
For manufacturing the product in bulk quantity.

## Quality Check

CMM, VMM, Dimensional validation as per the requirement.

## Assembly

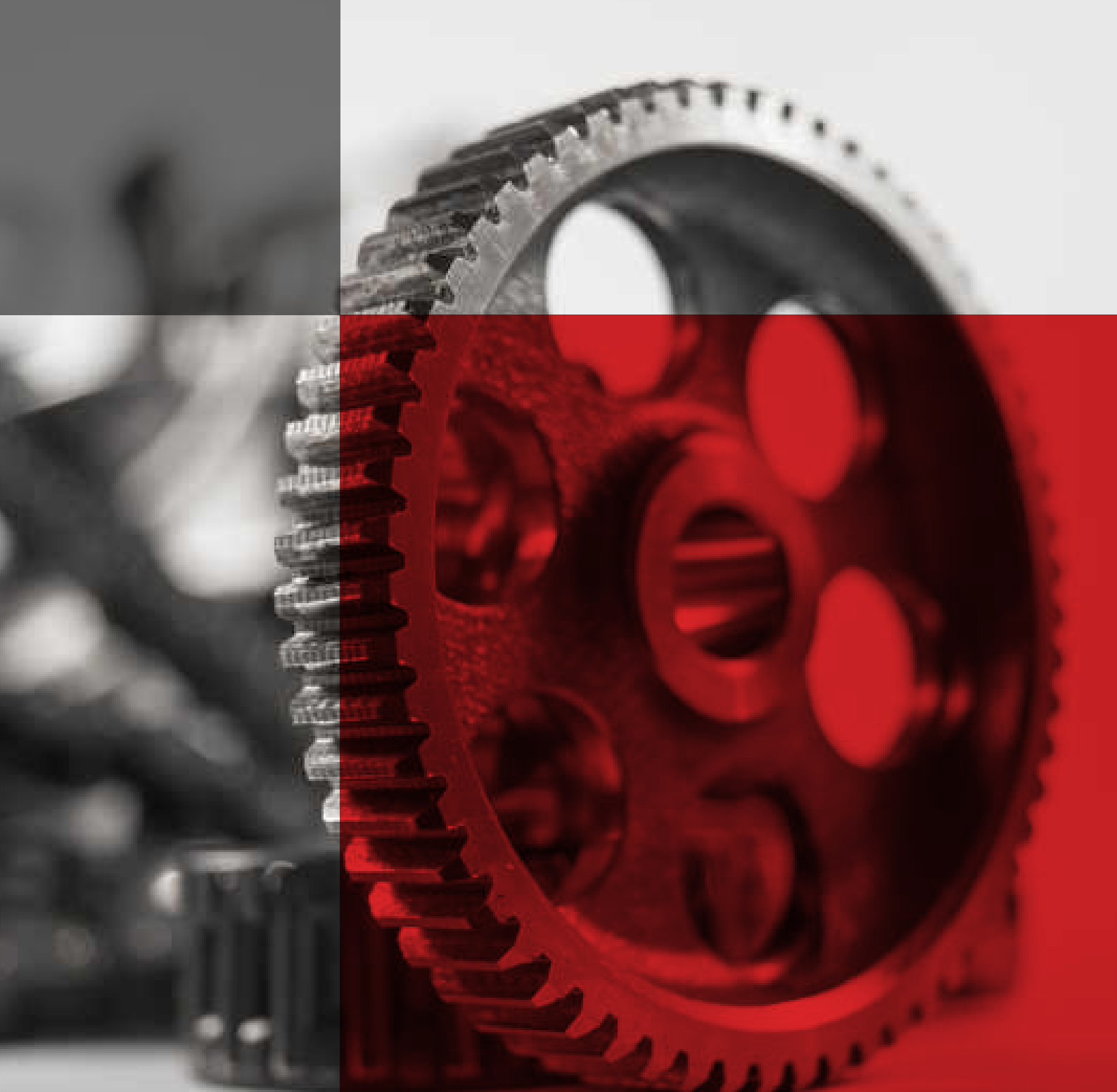
For product assembly, packaging and shipment to the customers.



## OUR CLIENTS

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## HEAD OFFICE

PBN Square 2nd Floor, Opp. Croma  
Rd. Number: 36, CBI Colony  
Metro Pillar No: C 1683  
Jubilee Hills, Hyderabad, Telangana  
India - 500 033

## PRODUCTION FACILITY

AP MedTech Zone Campus  
Pragathi Maidan  
VM, Steel Project S.O.,  
Vizag, Andhra Pradesh  
India - 530031

**think** **3D**

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