

# SIMPLIFORGE<sup>TM</sup>

## CREATIONS

RAPID PROTOTYPING & MANUFACTURING SOLUTIONS

SIMPLE. CREATIVE. FRUGAL.

[WWW.SIMPLIFORGE.COM](http://WWW.SIMPLIFORGE.COM)



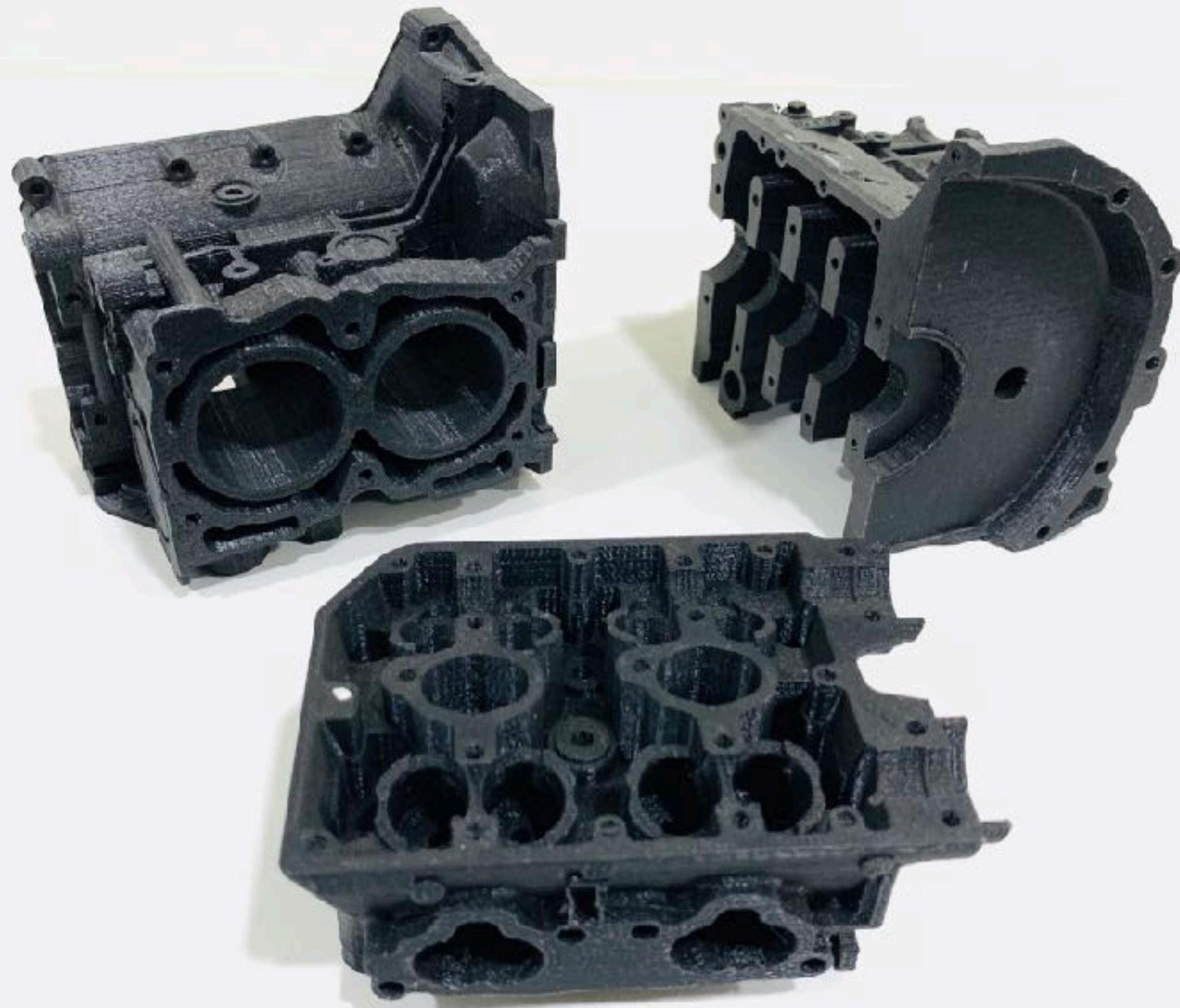
Simpliforge Creations takes pride in establishing itself as a one stop, end-to-end |Rapid prototyping and manufacturing solution for products spanning over the FMCG sector to niche domains such as prosthetics, jewelry, construction and so on.

Powered by manufacturing domain experts, localized production facilities and international design experts, Simpliforge delivers services to the best-of-the-market quality within the domain. Employing principles of concurrent engineering, Simpliforge works with the client in real-time to ensure accuracy and transparency in the production.

## Our Mission

Simpliforge envisions to be a holistic solutions provider for additive manufacturing and rapid prototyping equipped with a large materials library, niche design expertise and sound domain knowledge for technology applications globally.

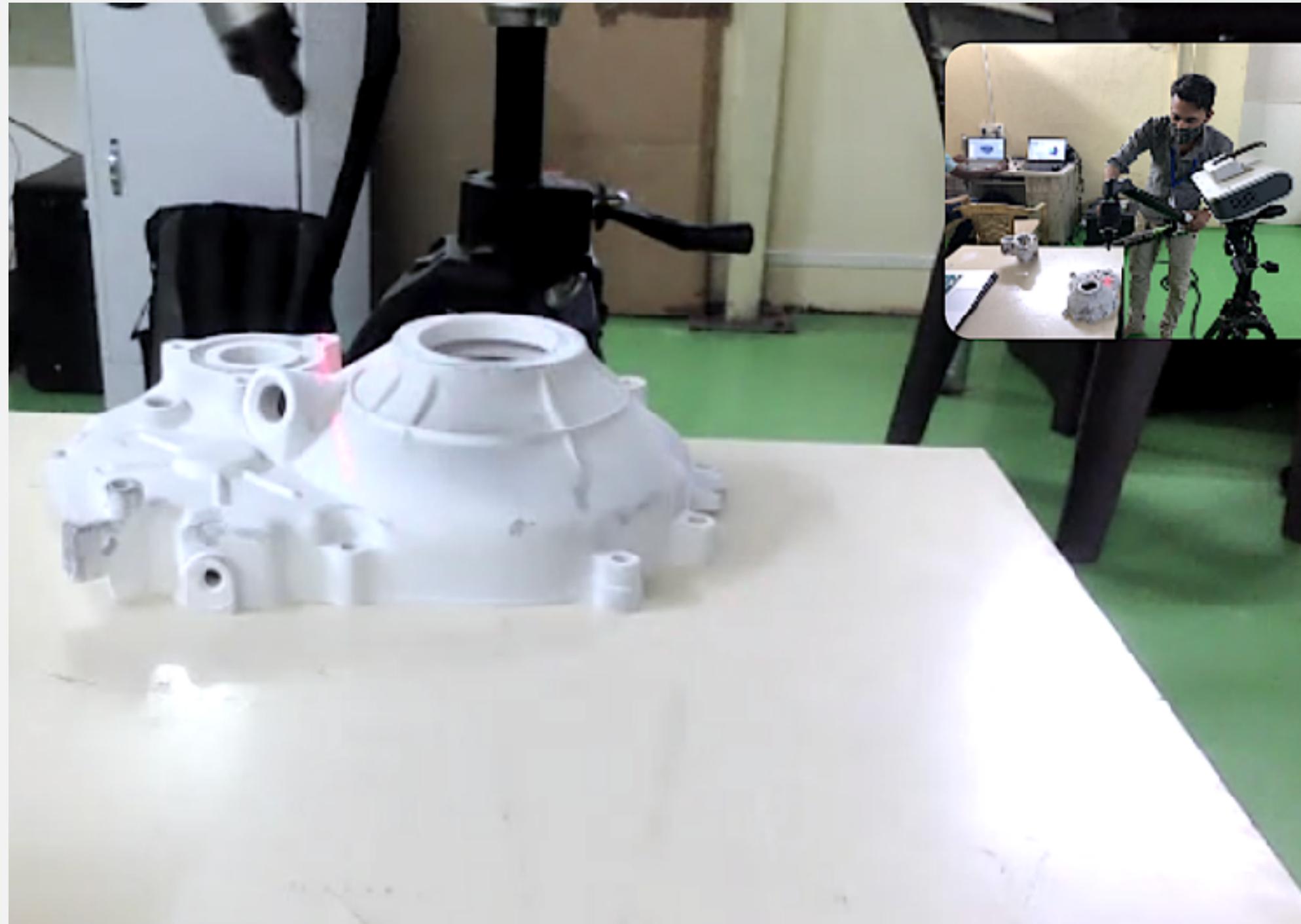
## PRODUCT DEVELOPMENT



*Prototyping, Product Development, Jig Design, Mold design,  
Mold Masterpiece design, Die Design, Overmolding, Silicon  
Modeling, Vacuum forming, Casting, Form analysis*

Empowered by our professional design team with diverse domain experience, Simpliforge provides prompt low-fidelity as well as high-fidelity prototyping services to our clients with the minimum turnaround time. We have successfully served key sectors such as entertainment, transportation, FMCG, Defence, Medical manufacturing and Food & Beverages with our prototyping services and aim to be the end-to-end product development solution providers for our client.

## **REVERSE ENGINEERING**



*3D Scanning, Reverse Engineering, Form analysis,  
Benchmarking, NABL certification, GIS scanning, Metrology,  
Quality Assurance, Quality Control, CMM measurements*

With state-of-the-art equipment comprising of CMMs, Portable CMMs, Blue Light Scanners, X-ray equipment, Contour Measurement and Spectroscopy along with priority access to partner NABL labs, Simpliforge boasts of capabilities for reverse engineering products both mechanical and electromechanical between 20 microns to 60 meters while ensuring compliance and adherence to IP law on client's behalf as well.

## DESIGN DEVELOPMENT



*CAD modeling, Generative Design, DfAM, Topology Optimization, Parametric Design, Programmed Design, Parametric Design*

Simpliforge equips itself with a diverse inventory of software to cater to programmable, parametric, non-parametric, mesh-based or even schematic design files to obtain the output as desired. Simpliforge works with Fusion 360, Solidworks, Catia, Blender, Zbrush, Mesh processors among other software to ensure interoperability with client systems. Simpliforge works for topology optimization, generative design, iterative design and so on.

## MEDICAL & HEALTHCARE



Powered by our material libraries, Simpliforge is able to cater biocompatible and near-biocompatible material based products for direct use by patients to provide low volume, customized products such as Orthoses, Prosthetics, Splints and so on under medical supervision by our in-house consultant.

*Anatomical Models, Orthotics, Splints, Surgical Guides, Dental Aligners, Denture Modeling, Splints, Educational Models, Pre-surgery Models, Biocompatible implants, PEEK products*

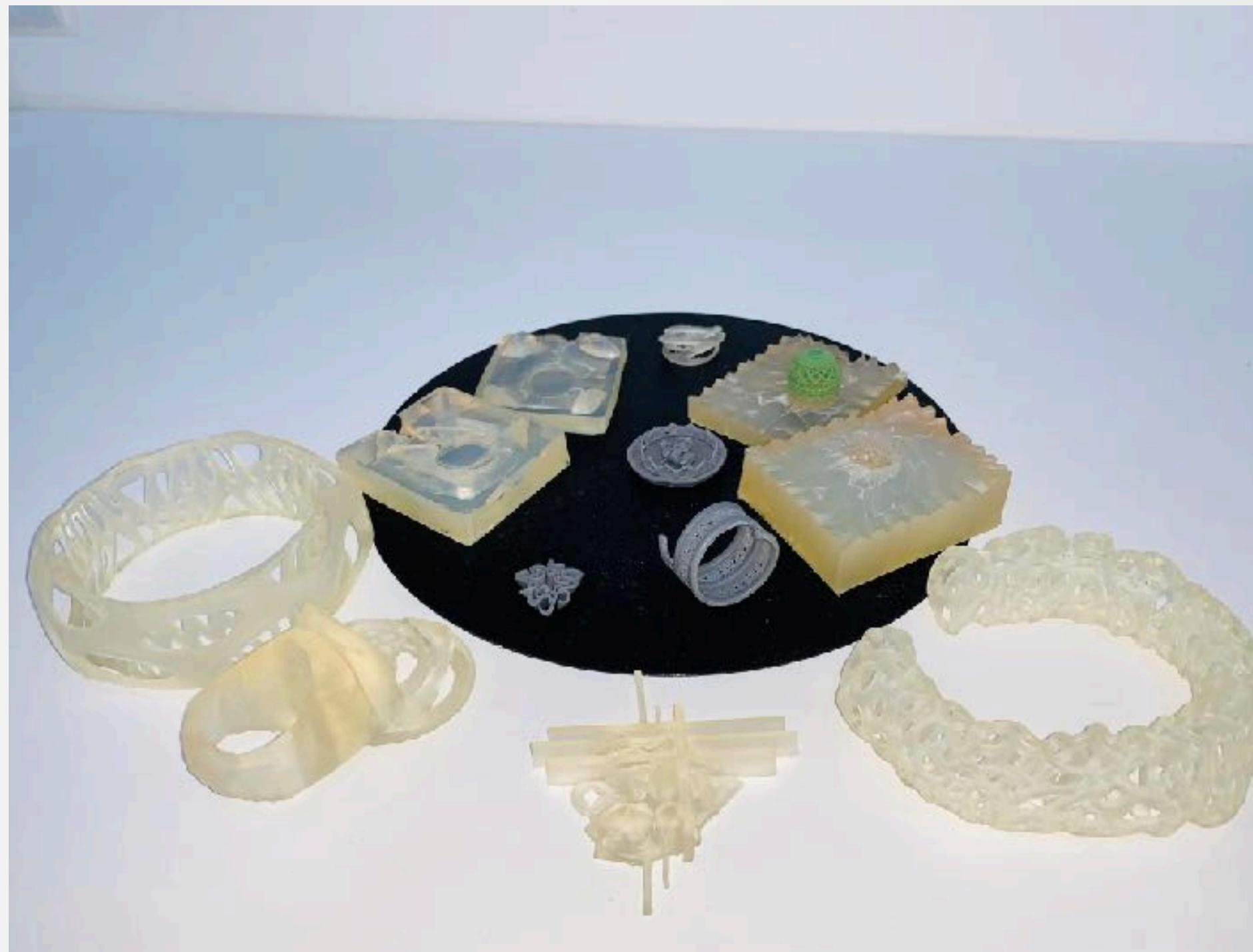
## **ARTS AND MULTIMEDIA**



*Figurines, Insignia, Replicas, Scale Models, Scale Sets,  
Personalized Gifting, Set Design, Pre-production, Exhibition  
models, Sustainable Art*

With advent of technology in the field of art, moviemaking, animation, archeology and artifact preservation, museum and creative expression, Simpliforge has successfully delivered projects with design and manufacturing services. Be it digitizing celebrities or replicating Army tanks for a museum, Simpliforge has realized creative visions of clients across domains.

## **TECHNOLOGY PROVISION**



Niche Material Prints, Sub-assemblies, Jigs and Fixtures, Molds & Dies, GO-NOGO Gauges, QA/QC Components, Spare Parts, Heavy Industry Components, Student Projects, Material Research Projects, Research oriented models, Thesis and PhD support

Additive manufacturing as a domain agnostic technology in nature, the applications can be integrated in a multitude of use case scenarios. Simpliforge provides professional skill upgradation, Lab set-ups, Technology Induction, Research Assistance and Support and so on to concurrently execute and expedite new research.

# Past Projects

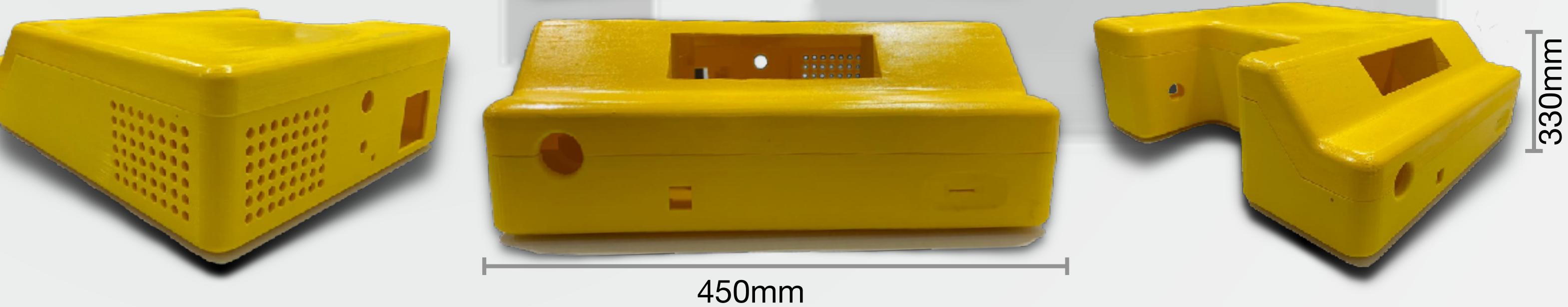
## Medical Device - Ventilator

### Project Details

The client, a biomedical device development company wanted to develop a ventilator based device. The casings, enclosure and surfaces for the prototype were developed for FDA approvals by Simpliforge. Simpliforge optimized the enclosure design with the client

### Specifications

Dimensions	480mm x 450mm x 330mm
Prototyping	FDM 3D printing
Material	ABS plastic
Domain	Medical Device
Lead Time	8 days



# Past Projects

## Component Design - Antennae

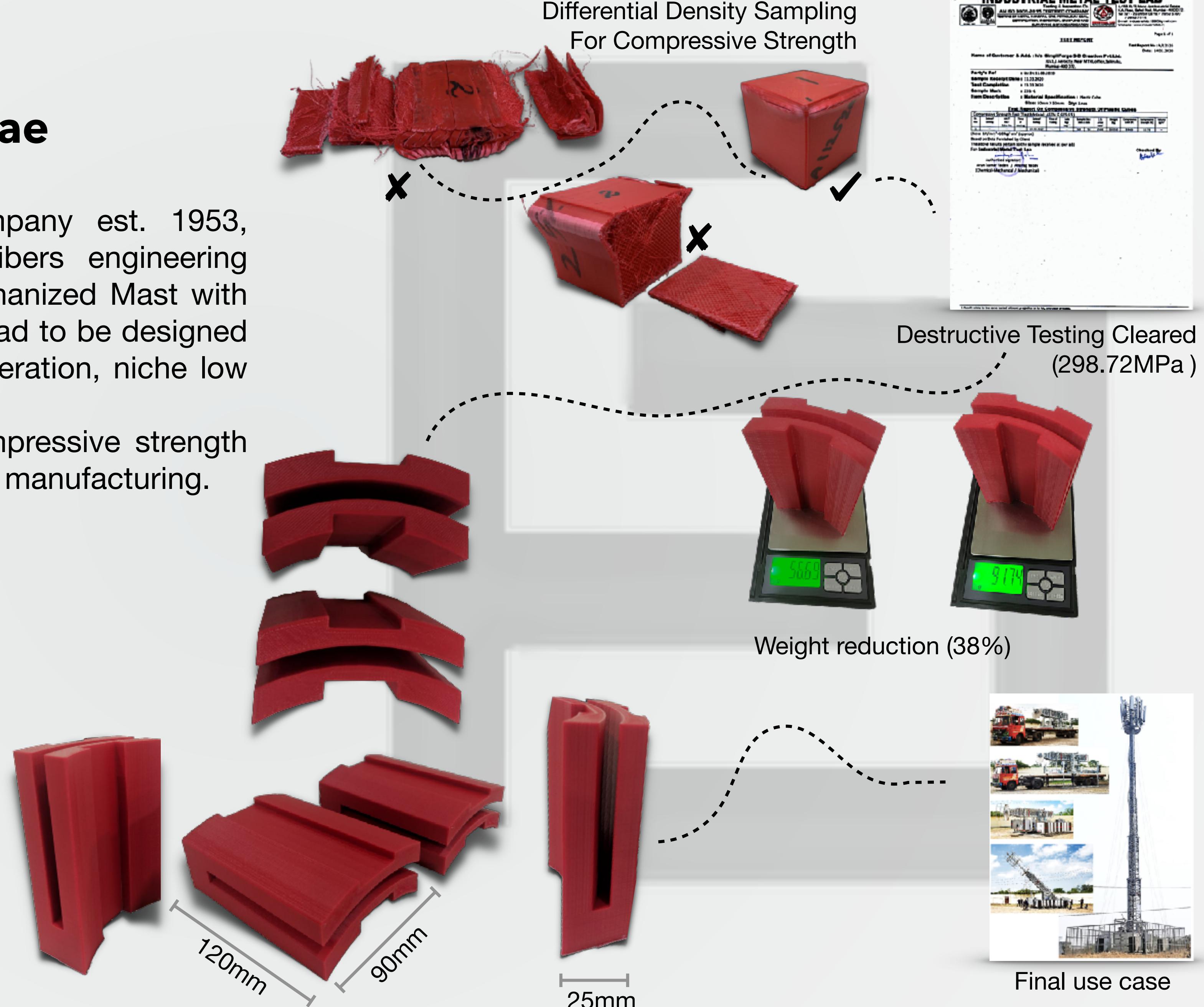
### Project Details

The client, an engineering solutions company est. 1953, operating in the Telecom and Optical Fibers engineering domain was developing a Skid-based, Mechanized Mast with Telescopic Segment. Spacing components had to be designed ensuring lightweight design, strength consideration, niche low volume production, and production timeline.

Simpliforge conducted material testing, compressive strength analysis, design modification and low volume manufacturing.

### Specifications

Dimensions	120mm x 90mm x 25mm
Prototyping	FDM 3D printing
Material	ABS plastic
Domain	Telecom component
Lead Time	15 days



# Past Projects

## Reverse Engineering - Consumer Products

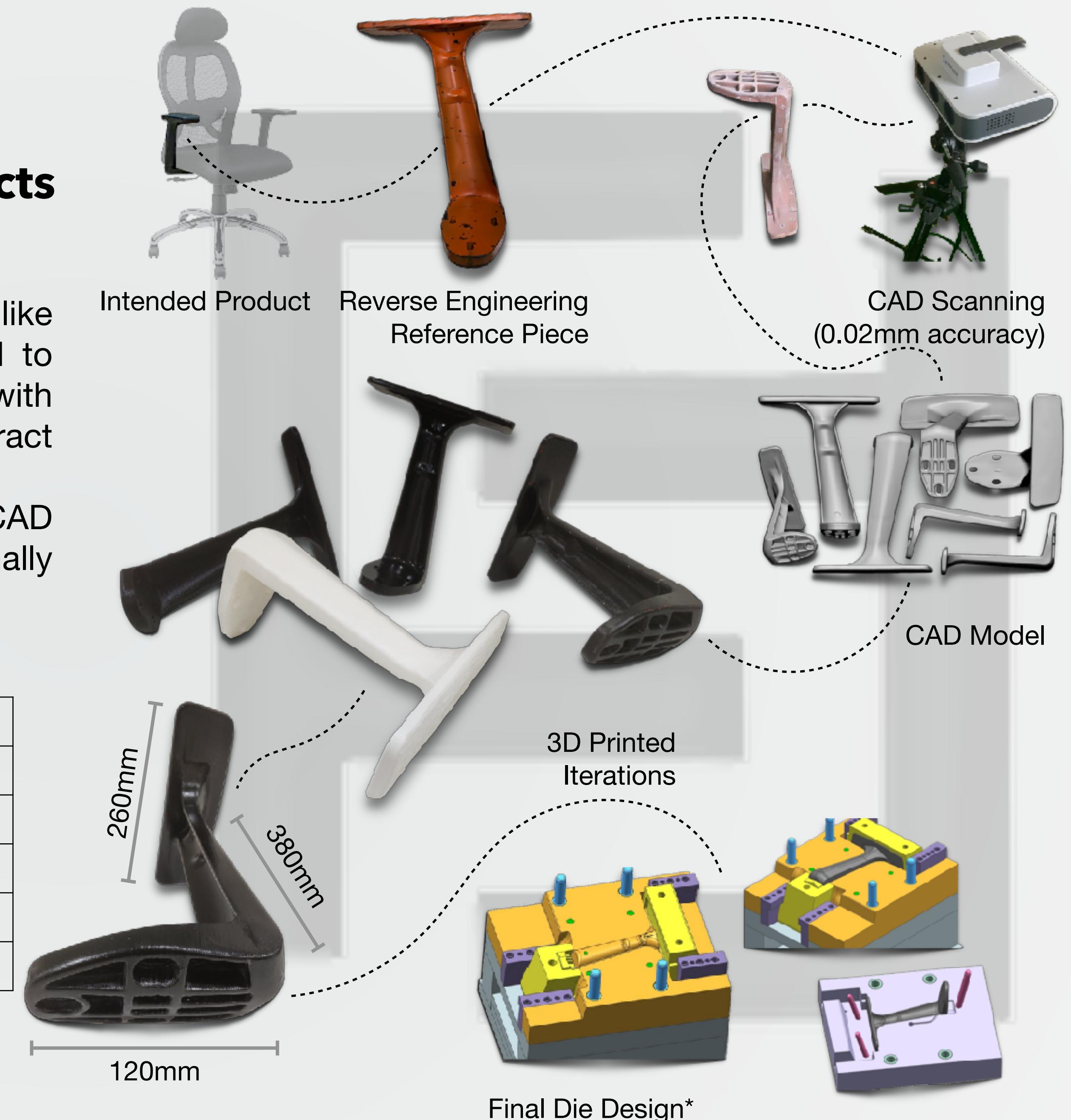
### Project Details

The client, a mass manufacturer of consumer products like furniture, wardrobe, interior design products, etc. wanted to reverse engineer a component of an existing product with organic shapes. Traditional methods were unable to extract exact design.

Simpliforge conducted 3D scanning, CMM modeling, CAD model generation, 3D printed design iterations and finally designed the die for the product.

### Specifications

Dimensions	120mm x 260mm x 380mm
Prototyping	FDM 3D printing, IM Die Design
Reverse Engg	Blue Light scanner (0.02mm accuracy)
Material	ABS plastic
Domain	Consumer Goods
Lead Time	25 days



\*Design redacted to maintain confidentiality

# Past Projects

## New Product Development - Sanitation Device

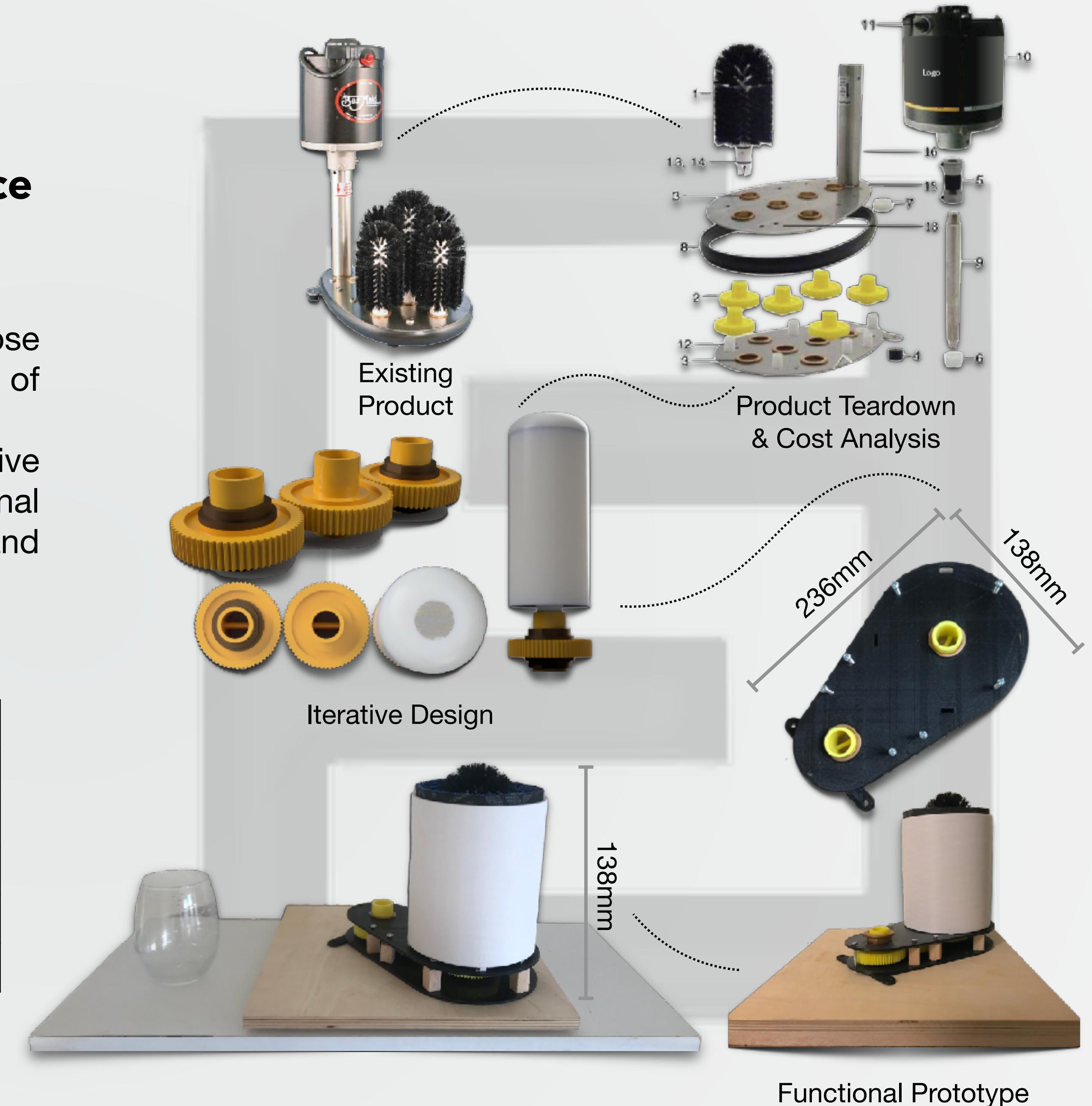
### Project Details

The client, a US based manufacturer of special purpose machines & medical devices wanted to create an iteration of an existing product used for sanitation in bars and labs.

Simpliforge conducted product reverse engineering, iterative product design, design transfer documentation and a functional prototype to reduce number of parts, ease manufacturing and reduce production cost.

### Specifications

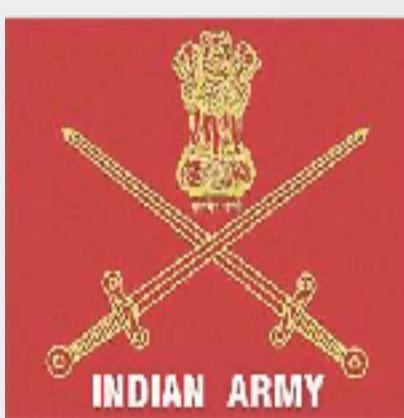
Dimensions	236mm x 138mm x 138mm
Prototyping	FDM 3D printing, functional Design
Reverse Engg	Manual
Material	ABS plastic, Balsa wood, brass
Domain	Industrial Appliance
Lead Time	25 days



\*Design truncated to maintain confidentiality

# Simpliforge Creations Private Limited

## Our Clients



**TIMES OOH™**

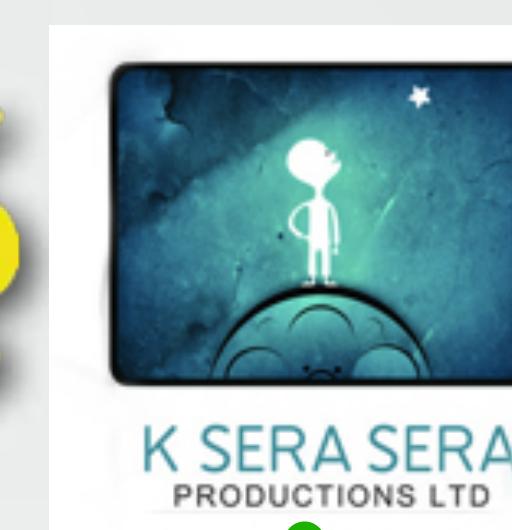


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JEWELLERS PVT.LTD.



**NORTHMED INC.**  
**Biosense**  
A Tulip Diagnostics Company

# Entrepreneur

The Magazine

# the team



Dhruv G  
**Founder, CEO**

BE (Information Technology)  
SAP consultant,  
Former founder at Edtech  
company

- As CEO and Founder of Simpliforge Creations Pvt Ltd., Dhruv has in its first year carried out approx. \$150,000 worth prototyping and niche structure projects with Indian Army and multiple projects with Indian Navy, Bhabha Atomic Research Centre (BARC), IIT Bombay, and so on.
- As the former head of marketing for Darshan Roadlines (est. 1972), a Pan India logistics company with specialized in-house fleet of 160+ heavy logistics vehicular units, Dhruv enables custom logistical support for projects to be undertaken.
- As director at Global 3D labs, a private Limited company (est. 2013), Dhruv is responsible for developing and manufacturing FDM and SLA printers for 14+ materials including PEEK, Carbon Fiber and so on.
- A social impact entrepreneur, Dhruv also collaborates with artists for aesthetic pieces including concrete based art.

# the team



Amit G  
**Founder, COO**

Adjunct Faculty (HITAM)

MS (Engineering Management) NEU,  
Boston,

BE (Mechanical Engineering),  
Published Author,

Director, Global 3D Labs

- As a COO and director at Simpliforge Creations, Amit has been responsible for Product development and establishing international vendor network. Amit has been passionate about Concrete 3D printing since 2014 and is leading the Simpliforge 3DCP efforts.
- A former project engineer in the Oil & Gas domain, Amit is experienced in project management and stakeholder management having led teams of 150+ onboard ships through the Persian Gulf.
- As an industry based faculty at HITAM, Amit leverages technological research for commercialization in product development and prototyping.
- Amit's clientele network includes IITs, NITs, Armed and Defense forces, Government bodies and so on, while his vendors and suppliers hail from India and from South East Asia.

# Simpliforge Creations Private Limited

## About Us

### Our Presence:

**MUMBAI**   
#623, Swastik Disa Corp. Park,  
Opp. Shreyas Cinemas, Ghatkopar  
West,  
Mumbai - 400 086

**HYDERABAD**   
2nd floor, Plot no. 313,  
Ayyappa Society, Madhapur,  
Hyderabad - 500 081

**PUNE**   
Plot 241, Sector #7, MIDC  
Industrial Area, Bhosari,  
Pune - 411 026

### Our Virtual Presence:

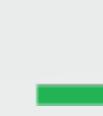
 [www.simpliforge.com](http://www.simpliforge.com)   
 [Simpliforge/](#) 

[contact@simpliforge.com](mailto:contact@simpliforge.com)  
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# connect with us



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