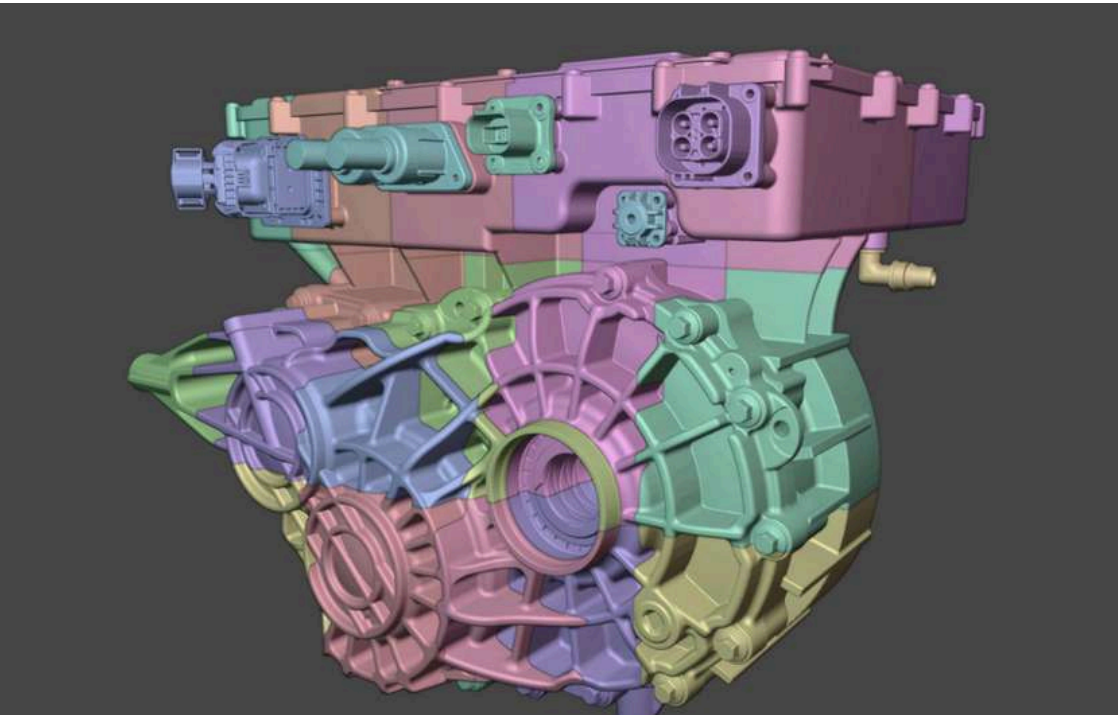
BRAHMA3

FILE OPTIMISATION FOR 3D PRINTING

Reduce 3D model file sizes from 10GB to 100MB for easy web view and optimizing the file for 3D printing vendors.



BRAHMA3

CASE STUDY

How we solved problems for 3D printing and 360 degree web view

Model optimization and manufacturing - a story of design involvement & engineering experience

At the Outset

With the given large stl files, our task was to make the file 3D printable to different sizes for display and online viewing.

The Challenge

Optimizing a 3D design assembly file of size > 2GB containing over 1000 components for manufacturing. Examining the model and fix any issues.

Our Approach

We built a specalised software integration that reduces file size with negligible changes, identifiy and resolve areas for ease in 3D printing workflow, adding textures and colors for web view

Our Work

Our extensive suite of services encompassing large file handling, 3D sculpting, design for manufacturing, 3D model optimization, and advanced analysis services ensured the seamless evolution of vision into reality.

Our Process

We began by understanding the assembly and the critical parameters that should be resolved step by step. We categorized the process into planning stage, manual remodel areas identifiable by the human eye, advanced automatic remodel by our algorithms, final clean-up and preparation for 3D printing.

The planning stage helped us keep the best quality with faster workflow. We divide the components into smaller pieces for faster printing and easy assembly.

The Result

This beautiful engine is displayed in the experience zone at Bosch, Bengaluru and has lead to the further development of multiple replicas that my client proudly uses for events and business development meetings. In fact, the engine today is also used as an educative tool to train employees on various industry practices and assemblies.

BRAHMA3

An era in Digital innovation

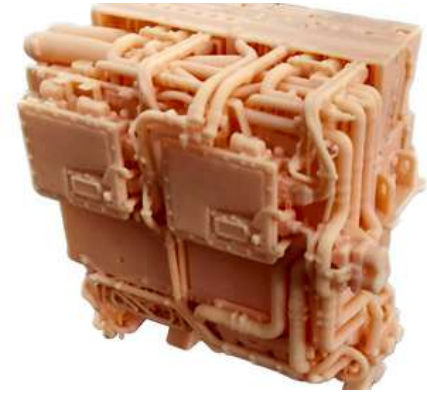
At Brahma3, we are pioneers of a new era - the convergence of advanced softwares, streamlined workflows have proved consistent results in quality and speed.

- Have you ever felt the need for optimizing your engineered digital replicas to vendors in the 3D printing industry?
- Have you faced the need to display your models that is easy to open on any device and access with your favorite web browser?

ENGINEERED DIGITAL REPLICAS

QUALITY AT LOWEST FILE SIZES

3D Rendering of Hydrogen fuel cell engine



3D printed miniature model of Hydrogen Fuel Cell Engine from our optimized file

We lead the charge through new-age digital techniques and leverage technologies like 3D re-modelling, advanced 3D printing solutions such as adding thickness and identifying possible errors before printing.

10+
Years as pioneers of
3D printing technology in India

200+
Successful hassle-free
3D prints

20+
Engineering product
developments

2300+
Complete prototypes
developed

1
Advanced software with unique techniques developed to help our clients

“Brahma3’s file optimizing solutions are robust and have really helped us visualize designs faster than earlier and is definitely a much recommended solution.”

- Technical lead, Posiflex

Reach out!

BRAHMA3

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