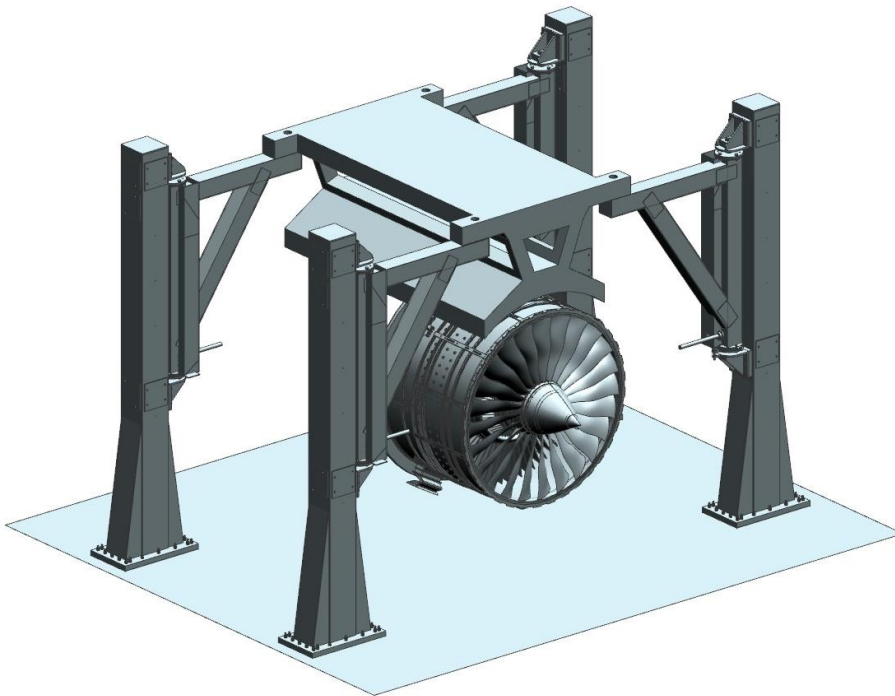


1. DESIGN, FABRICATION AND ERECTION OF MAINTENANCE WORKSTATION ADAPTER FOR CFM 56 ENGINE

Problem Statement:

A MRO Group from a major aviation firm approached us on replicating the existing workstation adapter for CFM 56 Engine. The group was looking for a firm with elaborate expertise to provide turnkey solutions.



Description of Scope of Work:

Design, Analysis was conducted for the assembly of workstation adapter. The adapter later had to be manufactured and erected at the client's premises.



Challenges:

- Neither drawings nor models were provided.
- The pictures of the existing assembled structure was only the given input.
- Design incompatibility was present as the existing structure was from a earlier era.
- The bearing part of the assembled structure's FEM analysis was a challenge as a lot of parameters had to be considered.

Execution Strategy:

- The data required to execute the project had to be extrapolated from the expertise of our team.
- The design incompatibility of the existing design was overcome with our knowledge of existing viable design solutions.

Value Added:

- Due to the induction of the production team from the inception phase, the product iterations were considerably reduced.
- Process Sheets for the individual parts were created and submitted.
- Updated technology utilized to overcome outdated parts.
- Project Duration was minimized by a staggered approach to the management of the project.
- Fabrication and erection was completed in a record time that was appreciated by the client.