

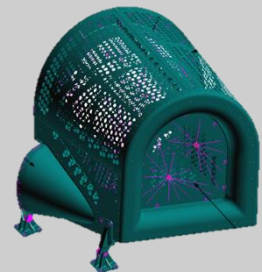
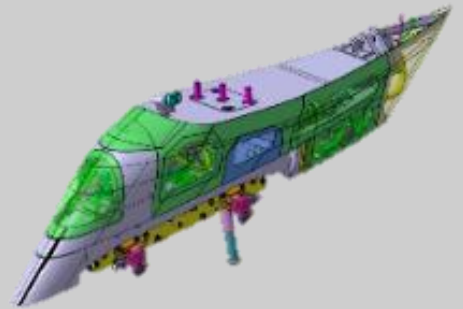
Cascade Aerospace Engineering

Conception Development Certification

Structural Analysis, Simulation and Design Solutions for Metallic and Composite structures.

Our capability

- Design Integration – Structural optimization, Material selection, Weight and Manufacturing requirements
- Structural Strength analysis
- Fatigue, Damage Tolerance & Durability analysis
- Dynamic & Stiffness assessment
- High energy Impact assessment
- Simulation, FEA development, Verification & Validation
- Structural test definition and results interpretation, including verification of Finite Element Models
- Big Data – Database development for large analysis data sets and extraction of relevant information
- Delegated Authority for the Approval of new designs, modifications or repaired structures
- Certification documentation and in-depth understanding of Airworthiness requirements for relevant agencies



Our experience

- Large Aircraft Wing & Fuselage structure, Landing Gear, Floors & Interiors
- Normal Aircraft Fuselage, Empennage and modifications to primary & secondary structure
- Gas Turbine Intake and Nuclear Coolant Filters
- Marine/Naval – Queen Elizabeth Carrier & Type 45 Destroyer design and manufacturing support
- Aircraft externally mounted equipment, including Pylons, Radars, Antennas, Radomes and Fairings



AS 9100
BUREAU VERITAS
Certification



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