

FINITE ELEMENT ANALYSIS

We provide a FEA engineering analysis, consulting and Training, steering product designs from a conceptual stage to reality. Our services are low cost and we offer professional finite element analysis services.

Our FEA services are used to list, validate and verify designs. We help reduce design cycle, time and remove errors. Hence increasing product reliability and increasing confidence in product performance.

Software We Use:

- ANSYS WORKBENCH
- HYPERMESH
- ABAQUS
- ANSA
- ANSYS FLUENT
- L S DYNA
- Star CCM+
- Ansys CFX
- CATIA
- SOLIDEDGE
- AUTOCAD
- SOLIDWORKS

Our Complete Range of FEA Services:

- **Defined Modeling and Precise Simulations**
- **Stress/Structural FEA**
 - Static
 - Linear
 - Non-linear
 - Contact
- **Fatigue Failure Investigation**
 - Failure Prediction
 - Cycle to Crack Formation
 - Analyzing Stress Intensity
 - Threshold Stress Intensity
 - Dynamics Tear Testing
 - Rupture Analysis

➤ **Modal/Vibration FEA**

- Process Improvisation
- Redundant Noise and Vibration Elimination
- Trouble Shooting
- Phase Change

➤ **Thermal FEA**

- Steady-State
- Transient
- Convection
- Conduction
- Phase Change

➤ **Buckling Analysis**

- Solid Model Migration
- Mesh Sensitivity Testing
- Eigen Buckling Analysis
- Weld Inspection and Evaluation

➤ **Computational Fluid Dynamics**

- Internal and External Flow Analysis
- Thermal Fluid Flow Analysis
- Multiphase Analysis

➤ **FE Modeling (Meshing)**

- 1D Meshing
- 2D Meshing
- 3D Meshing
- FE Modeling for BIW Structure
- FE Modeling for Plastic parts, Door Trims, Car Hood and Trunk Lid etc

➤ **Dynamic Analysis**

- Crash Analysis
- Impact Test Analysis

Infrastructural Facilities include

- High Configuration workstations Laptops and Desktops
- High speed internet connectivity
- Latest software's like ANSYS WORKBENCH , ABAQUS, HYPERMESH , ANSYS FLUENT & ANSA etc
- High capacity UPS/Generators for power supply backup

Our Mission

- Prompt and on time FEA engineering services
- Client satisfaction by delivering excellence output before given time-line
- Cost effective FEA solutions
- Create long term relationship with client.