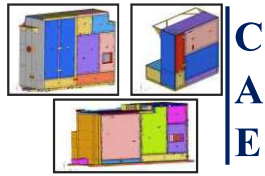




RESEARCH & DEVELOPMENT



Locomotive Cabinets

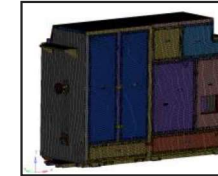


Traction Converter Cabinet Cabinet-1:

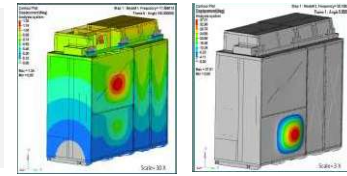
- Modal Analysis
- Static Structural Analysis as per norm (Combination of the load (**Total 16 combination of G-loads**) of static load cases)

Output:

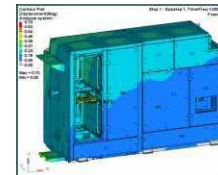
- Frequency plots, Mass Participation factor.
- Stress & deformation Plot for Static Structural Simulation, R-calculations, Bolting forces.



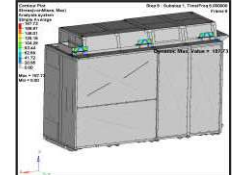
Mesh Model



Frequency Plots



Displacement Plot



Stress Plots

Modal Analysis

Structural Analysis

What we Simulate:

- Modal Simulation.
- Structural strength.
- 'G' Loading.

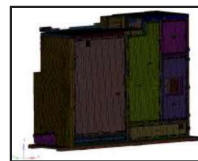
- Tool: Hypermesh, Ansys

Traction Converter Cabinet Cabinet-2 :

- Modal Analysis
- Static Structural Analysis as per norm (Combination of the load (G-loads) of static load cases)

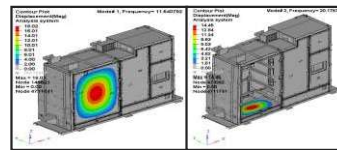
Output:

- Frequency plots, Mass Participation factor.
- Stress & deformation Plot for Static Structural Simulation, R-calculations, Bolting forces.

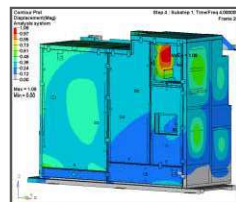


Mesh Model

Modal Analysis

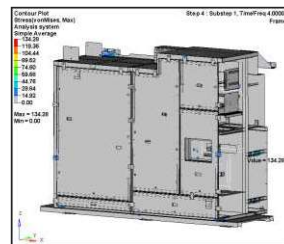


Frequency Plots



Displacement Plot

Structural Analysis



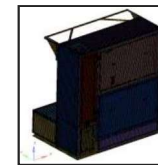
Stress Plots

Auxiliary converter Cabinet Cabinet-3 :

- Modal Analysis
- Static Structural Analysis as per norm (Combination of the load (G-loads) of static load cases)

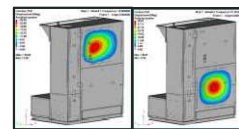
Output:

- Frequency plots, Mass Participation factor.
- Stress & deformation Plot for Static Structural Simulation, R-calculations, Bolting forces.

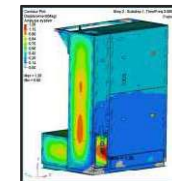


Mesh Model

Modal Analysis

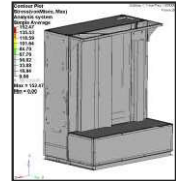


Frequency Plots



Displacement Plot

Structural Analysis



Stress Plots