

Company Profile

L.T.Calcoli, founded in 1996, specializes in Finite Elements Analysis (FEM) and development of technologically advanced software products for our customers.

Our Group offers products and solutions into Technical areas:

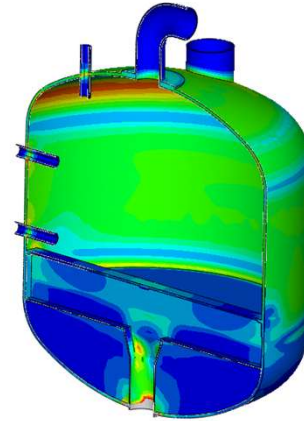
- **Electromagnetic analysis**
- **Fluid-dynamic analysis**
- **Thermal-Structural analysis**
- **Noise analysis**

Pressure Vessel

FE analysis of pressure vessel with structural assessment following Boiler and Pressure Vessel codes (ASME, RCC-MR ..)

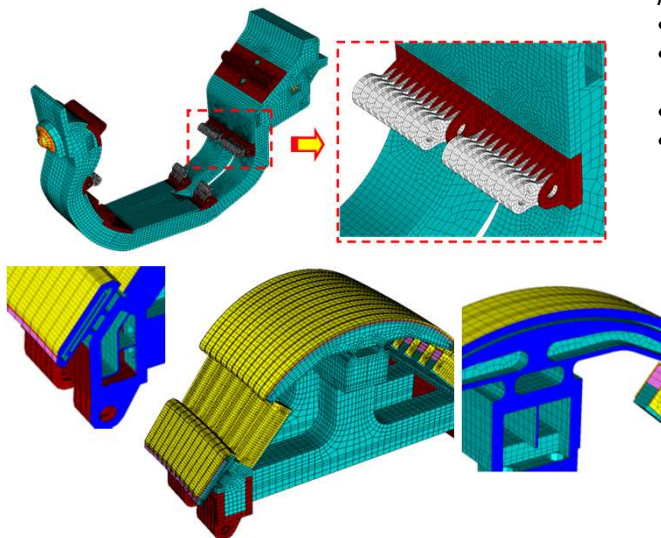
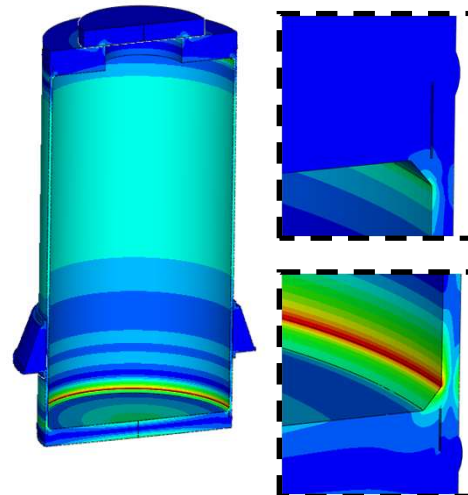
Fusion Engineering ITER Project

Electromagnetic and thermo-mechanical FE analysis of the Divertor system.



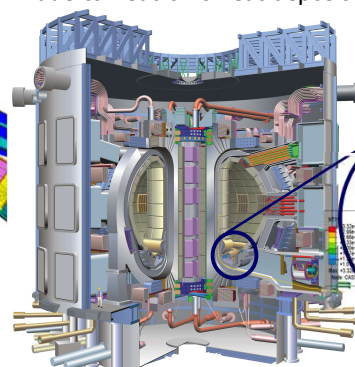
Linear elastic analysis for the evaluation of the stress distribution on the **Pressure Vessel**

Structural elastic-plastic analysis for the most critical parts of the **Pressure Vessel**



Analysis procedures performed for **ITER** Project:

- neutronic analyses
- transient heat transfer analysis under the effect of the neutronic heat deposition
- electro-magnetic analyses
- Static/dynamic elastic analysis under different load conditions: dead weight, Cassette pre-load, thermal strain due to neutronic heat deposition, Electromagnetic loads



Transient heat transfer analysis:
temperature distribution [°C]

