



Finite Element Analyses at the Department of Applied Mechanics, Budapest University of Technology and Economics

Our main activities at the Department of Applied Mechanics, beside education, consist of mechanics research, measurements and FEM analyses. Our team has 5 years of experience with ANSYS FEM analyses, which comes from nuclear research and development made in cooperation with foreign research institutes. The numerous different types of tasks we have solved, and the expertise of the Department enables us to do any kind of thermal/structural job, up to the limitations of ANSYS 13.

Our current technical capabilities and unlimited industrial ANSYS 13 licenses enable us to run models up to 50 million DoF's.

Our ANSYS capabilities include:

- Structural, thermomechanical simulations based on ANSYS Workbench or ANSYS APDL
- Macro based ANSYS APDL analyses for more complicated jobs
- Nonlinear calculations (nonlinear materials, large displacements, buckling, contacts)
- Modal analyses
- Transient analyses
- 1D, 2D, 3D models

Other services:

- Verification of calculations
- Verification using standards (MSZ, DIN, ASME, etc.)

For more information, please contact us:

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