

Deform 2D,3D

Deform 2D:

- Overview of the DEFORM
- System Overview of the Finite Element Method (FEM)
- Geometry definition
- Geometry labs
- Mesh generation
- Mesh generation labs
- Pre-processor overview
- Spike forging labs
- Heat transfer Heat transfer labs
- Non-isothermal simulation overview Non-isothermal lab
- Changing dies and multiple operations
- Changing dies lab
- Press behavior
- Press behavior labs
- Die stress analysis Die stress analysis labs
- Advanced topics and troubleshooting

- Material Testing and Input
- Elastic-Plastic Analysis
- Sliding/Spring Loaded Dies
- Message and Log File
- Convergence
- Fracture
- Multiple Operations

Deform 3D:

- Overview of the DEFORM-3D
- System Introductory labs
- 3D geometry definition
- Basic 3D mesh and symmetry definition
- Mesh and symmetry labs
- Non-isothermal 3D forming simulation
- Non-isothermal 3D forming labs
- Changing dies
- Advanced 3D mesh definition and simulation settings
- Advanced issues lab
- 3D die stress analysis
- 3D die stress analysis lab

- Review of geometry and meshing features in DEFORM-3D
- Discussion of hot forging lab - steering link
- Setup of hot forged steering link with flash
- Discussion of warm formed gear carrier
- Setup of warm formed gear carrier without flash
- Post processing industrial cases
- Optional rolling lab

- 3D Geometry
- Geometry - overlapping
- Geometry - symmetry
- Geometry - AMGGEO format
- Geometry - STL file repair
- Geometry - slicing
- 3D Meshing
- Meshing - absolute mesh density
- Meshing - penetration/interference
- Meshing - volume loss
- Advanced topics 2D to 3D conversion
- Cylindrical co-ordinates
- Rotary Forming
- Rotational Symmetry



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