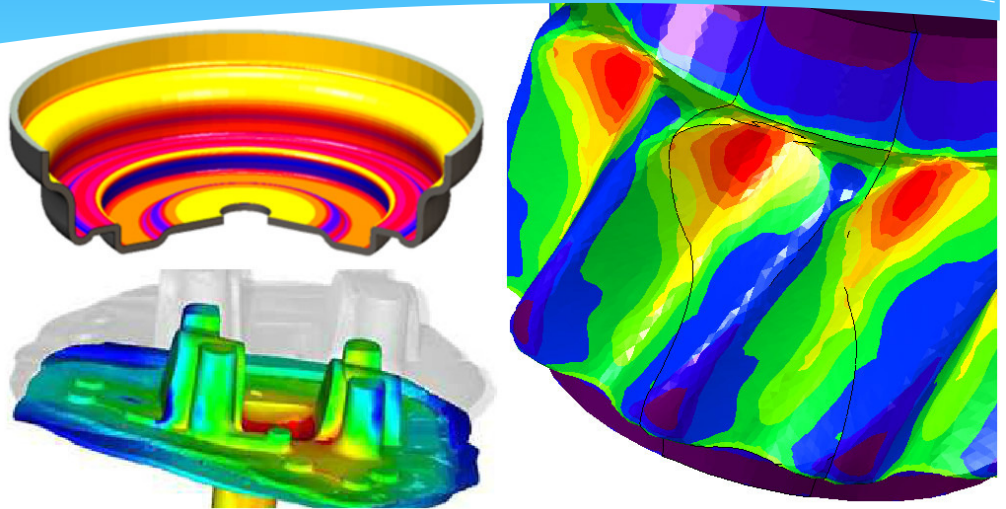
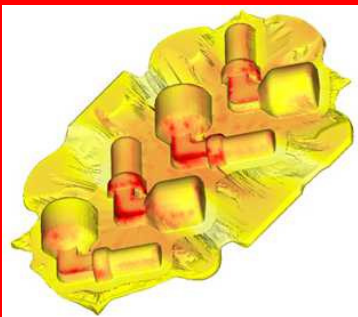


simufact.forming

Metal-Forming Processes

- Hot forging
- Cold forming
- Rolling
- Ring Rolling
- Cogging
- Spinning
- Extrusion
- Mechanical Joining
- Orbital-forming
- Sheet-forming
- Trimming
- Heat-treatment

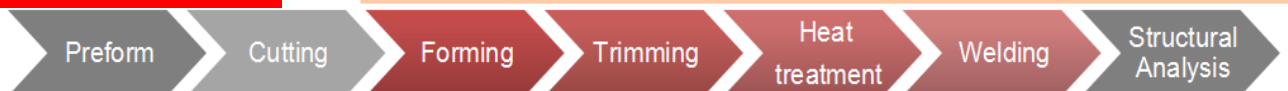


Features and Benefits

- Fast and easy to use
- Best result quality
- Best material data
- No limitation in the Kinematics. Any process can be build up.
- Microstructure analysis to optimize the forging strategy
- No limitation in size and weight of the work piece
- Optimize material usage
- Increase tool life
- Reduce flash material
- Reduce scrap
- Less shop-floor trials
- Inside view of the process for better understanding
- Improve Material properties
- Die stress analysis for higher tool-life
- Based on the best known and optimized commercial solver technology

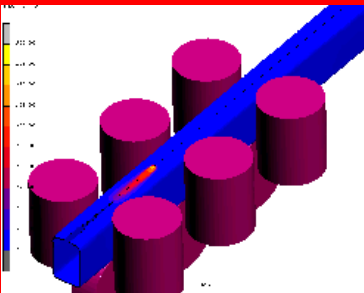
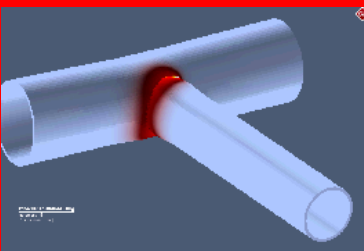
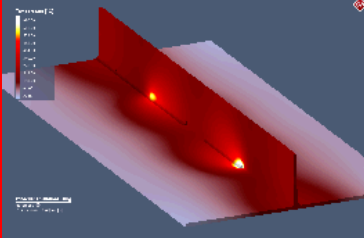
High ROI

- Reduce development time by 50%
- Improve yield to global standards
- Reduce shop-floor tryouts by 50%
- Improve die-life by 10-50%



Process Chain Simulation

simufact.welding



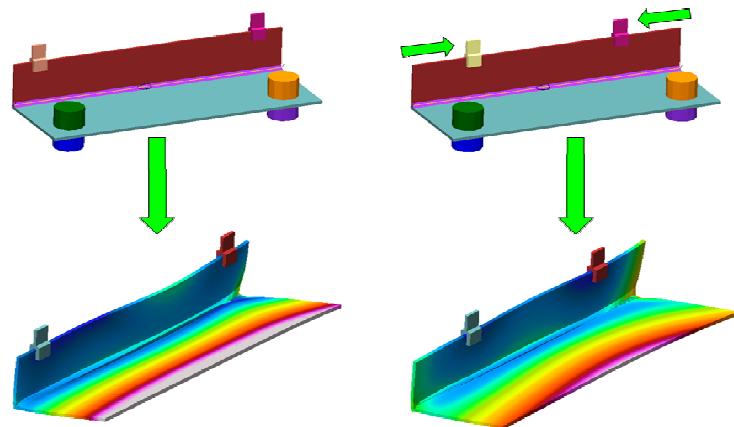
Simufact.welding - a Finite Element-based software for welding simulation based on MSC.Marc solver.

Salient Features

- ✓ Easy to use
- ✓ Shorter computation time
- ✓ Accurate Fillet Generator
- ✓ Accurate Heat Source Modeling
- ✓ Pre-state functionality for welding of assemblies
- ✓ Thermal cycle for quick estimation of weld strategy
- ✓ Process simulation for welding after metal-forming
- ✓ Import of external meshed files in BDF format

Benefits

- To calculate the global temperature field
- To calculate the structural behavior
- To calculate the residual stresses
- Design and optimize the welding strategy and reduce the distortion
- Identify best welding process
- Optimize clamp-concept (geometry, time dependent and force/stiffness)
- Optimize the order of welding sequence
- Optimize the heat source



Leading Users

- | | | | |
|-----------|-----------|----------|-----------|
| ● Toyota | ● Audi | ● BMW | ● Daimler |
| ● Bajaj | ● L&T | ● Shivam | ● LPS |
| ● ZF | ● Siemens | ● GKN | ● Airbus |
| ● Trinity | ● Echjay | ● Vinir | ● IITs |

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Preform

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Forming

Trimming

Heat
treatment

Welding

Structural
Analysis

Process Chain Simulation