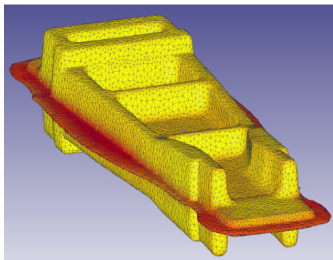


**Advanced Forming Technology Center (AFTC)**, knowledge based process modelling and simulation Technology Company caters to the needs of Industries, R&D Centres, and Defence Establishments in providing Computer Simulation based services to solve complex engineering problems in FORGING.

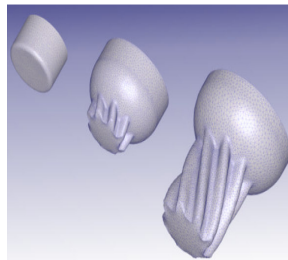
**AFTC** has strategic partnership with **SCIENTIFIC FORMING TECHNOLOGY CENTER, USA** the developer of DEFORM™, has been at the leading edge of the application of finite element technology to FORGING, MACHINING and EXTRUSION simulation since 1970.

**DEFORM** is the right software for efficient development of **FORGING, MACHINING & HEAT TREATMENT** processes. It gives a new perspective in finding solutions to recurrent and challenging problems without the cost & delay of the shop trials. The typical Application includes:

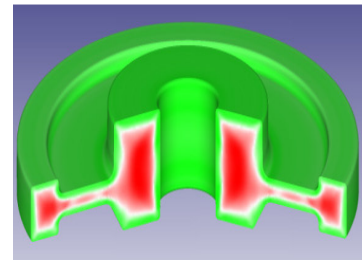
- Forging      - Upsetting      - Rolling      - Extrusion      - Heading
- Drawing      - Cogging      - Compaction      - Machining      - Turning
- Milling      - Normalizing      - Austenizing      - Carburizing      - Tempering.



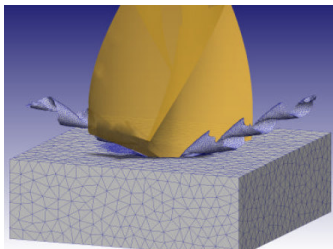
**Automatic Mesh Generator (AMG)**



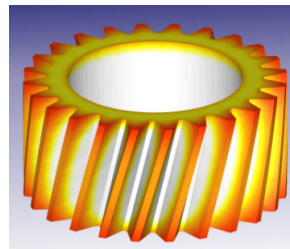
**Cold Extruded Helical Gear**



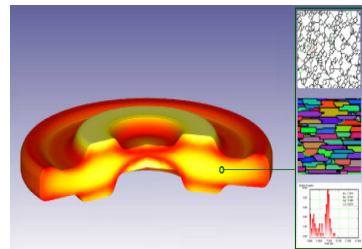
**Stress during Heat Treatment**



**Chip Prediction in Drilling Process**



**Heat Treatment Process**



**Microstructure Simulation.**

DEFORM-2D3D is the foundation of a comprehensive modelling system that integrates raw material production, forming, heat treatment and machining. The system can predict chip shape, cutting force, tool and workpiece temperature, tool wear and residual stress. In fact, the distortion resulting from residual stress of the entire part can be modelled.

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