

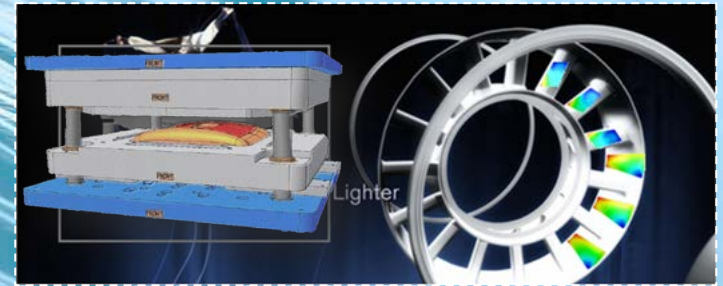
Virtual process chain for superalloy sheet metal aero engine structures – Validation and demonstrator

PhD student: Lluís Pérez Caro

Duration: 2014-2017

Funding: VINNOVA NFFP6 for SME

Advisor: Mats Oldenburg, Eva-Lis Odenberger



Research Scope:

- Thermo-mechanical characterization for use in FE-analyses of cold and hot sheet metal forming in Inconel 718 and HAYNES®282® nickel-base superalloys
- Modelling and simulation of sheet metal forming in order to perform an accurate tooling compensation for springback using advanced material characterization schemes and models for anisotropy, damage, and failure
- Development of a demonstrator for validation of models, analysis method and forming processes

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