

Process simulation services

From feasibility studies to justifications to stakeholders

Expertise in materials behavior and in-depth knowledge of manufacturing steps, such as forging and heat treatment, are key to ensure quality level of components.

Challenge

Metallurgy knowledge of steel blocks combines with know-how of manufacturing programs to predict mechanical characteristics and quality of finished parts.

Solution

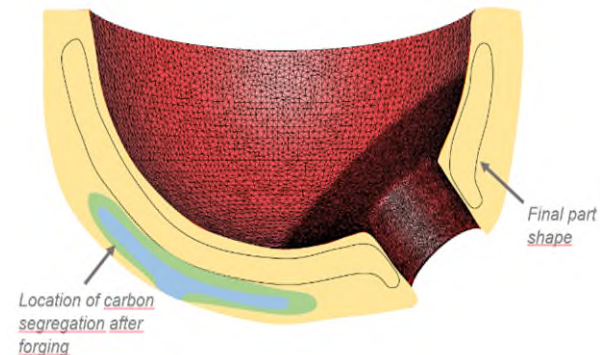
Framatome proposes a range of process simulations for forged components, including forging and heat treatment steps. In the design phase, simulations ensure to designers the feasibility of components. In addition, they allow to provide advise on manufacturing programs to get required level of quality, costs optimization and lead-times management.

While producing, simulation models take into account process parameters, and so, increase the level of knowledge of components characteristics, for a single part or serial production.

Customer Benefits

- Pre-studies: components feasibility (steel blocks, industrial means,...), risk analysis (prediction of metallurgical behaviour, reduce number of needed test parts)
- Studies: manufacturing program validation, product and process optimisation
- Add value during qualification process
- Ease to demonstrate conformity and speed-up solving production issues
- Enable to manage a serial production
- Increase knowledge of components' metallurgy and help to justify their life time

Your performance is our everyday commitment



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Our simulation services

Metallurgical expertise service for forging processes

Production follow-up service (single part or series):

- First part follow-up and simulation
- Instant simulation with real production parameters
- Serial parts comparison with first one thanks to process simulation

Manufacturing program optimisation service

References

- CEA
- EDF
- Navy and Defense activities

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