

# PROCESS DESIGN

## Simulation with Quality and Responsibility



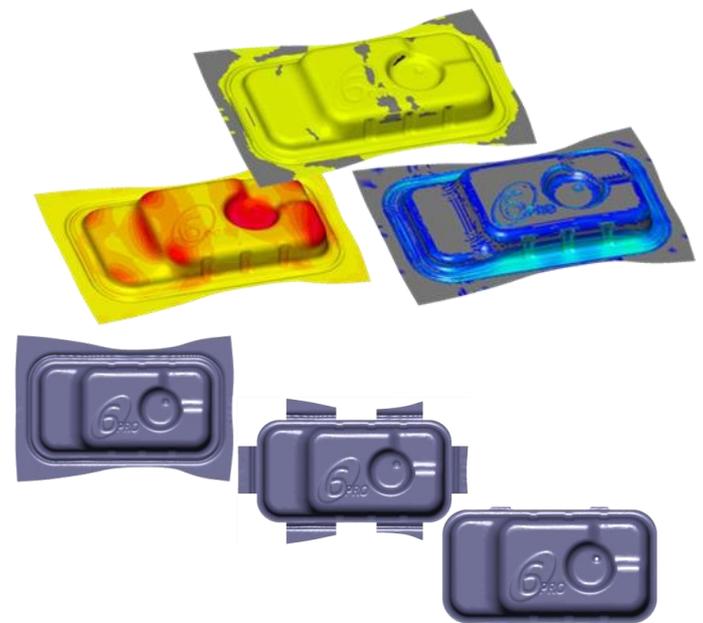
Considering all Sixpro's areas of activities, simulation services are the majority demand from metal parts producers.

Compared to conventional product development based on trial and errors, the use of simulation can reduce: tooling rework, material waste, time, and costs of process design. On the top of that it can also be useful for continuous improvement process.

The main costumers of Sixpro are companies with no CAE packages available, and also companies used to work with computational tools, that are still looking for improvement of its models.

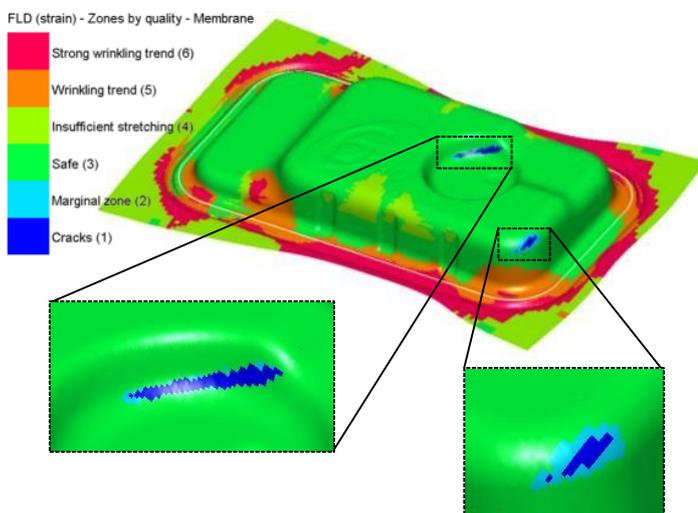
Sixpro's specialties are: Sheet Forming, Bulk Forming, Heat Treatment, Casting, Welding and Material Properties.

A complete process simulation may also be performed for verification, optimization and validation of its practice. It is also important to provide a simulated process in agreement with its method planning, which includes cutting, flanging, ironing, and others. In addition, Sixpro may also develop blank optimization for products already being manufactured, process modifications for new shapes, materials or thicknesses, and blank and cutting lines development. Springback compensation is of great importance as well.



### SHEET FORMING

Simulation is very helpful for commercial purposes, providing precise process design, including material and other parameters prediction. On another hand, it is also possible to investigate a product feasibility.

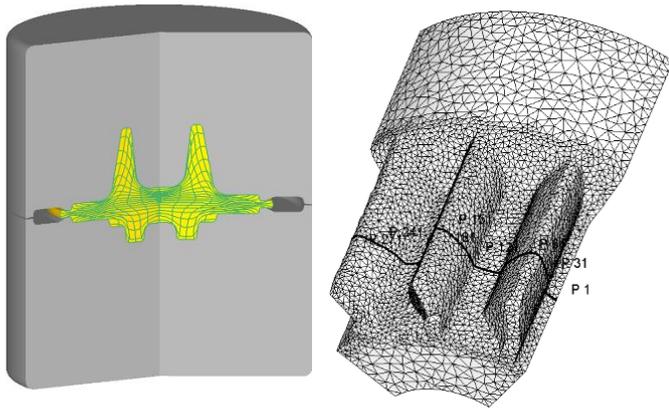


### BULK FORMING

Sixpro is expert in massive forming simulation including forming, extrusion, wire drawing, rolling, and others. Technical and economical analysis may be conducted for those metal forming processes. In this way, it is possible to provide more precise products and process quotations. In addition graphic presentations may be helpful tools for negotiating with potential costumers, and improving the company's marketing capabilities.

## Contact

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## JMatPro®

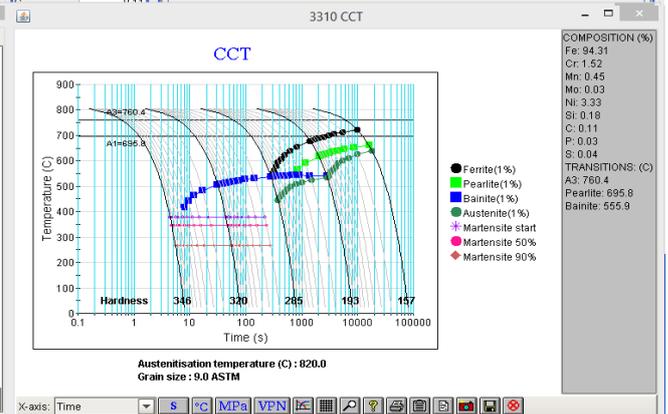
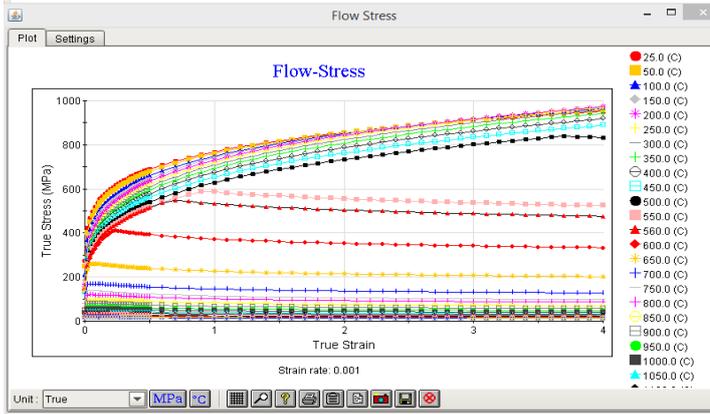
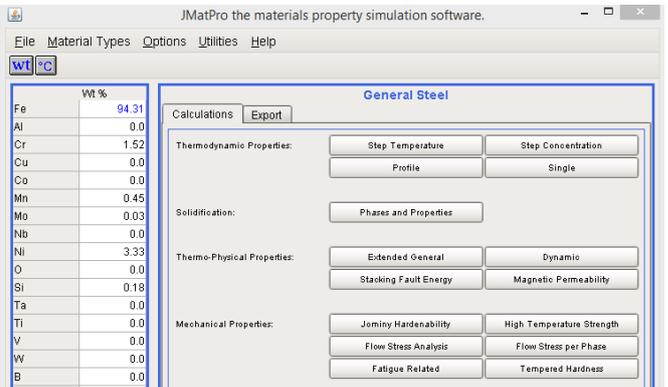
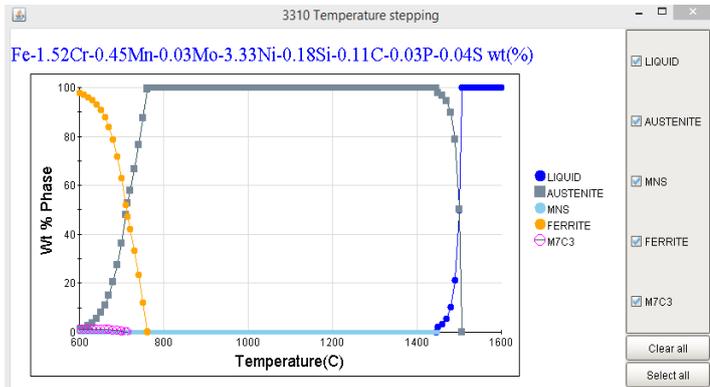
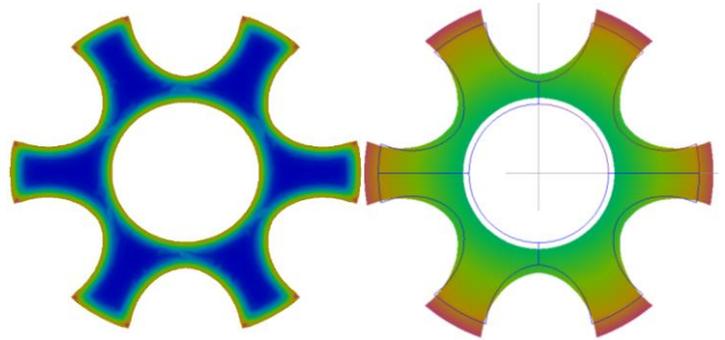
JMatPro\* is a consistent and reliable material properties modelling software for a wide conditions range. All of it is available with an easy user interface.

\*A product of Sente Software Ltd, United-Kingdom.

Therefore, any company with metallurgical manufacturing processes, interested in costs reduction, may implement computational simulation for its producing line and commercial actions. Sixpro is built of a capable team that provides simulation based on engineering knowledge and not only on the software capability.

## Heat Treatment

HT simulation are used for predicting part defects and process trends, looking for the process feasibility and costs reduction as well. Prediction of stock, microstructures, properties and distortion are some of the possibilities in simulation.



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