



SIXPRO Virtual&Practical Process

# Simulation X Process

Sixpro develops manufacturing processes. Also provides CAE software, technical consulting, simulation services and training. Its specialist engineers, masters and PhD's have an extensive experience in the industry:

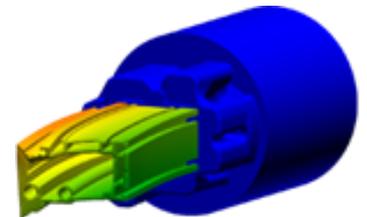
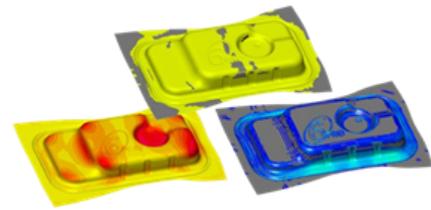
## Services

### Metal materials:

- Simulation of mechanical and thermophysical properties; Selection of materials;

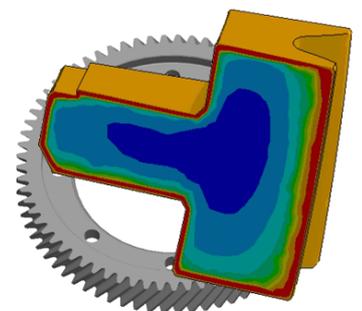
### General Forming:

- Stamping: Process verification, Feasibility; Full Process; Springback compensation; Processes improvement;
- Forging and Extrusion: Process verification; Feasibility; Processes improvement;
- Heat Treatments: Investigation of heat treatment phenomena; Process improvement study;
- Product engineering with a focus on process: Quality improvement for current products; Mass reduction for current products; Components' number reduction in welded structures; Material changing for current products; New products design.



## Training

- Online Courses;
- In Company customized trainings;



## Contact us

[www.sixpro.pro](http://www.sixpro.pro) | E-mail: [contato@sixpro.pro](mailto:contato@sixpro.pro)  
Phone: +55 31 9814-7266 | +55 31 99384.1154

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## Representations:



Consistent and reliable modeling of material properties;  
Variability of alloys and elements;  
Simple to use interface;  
Obtaining metallurgical and mechanical properties;  
Simulation of flow curves, hardness, TTT, TRC and others.

Simple and dynamic interface;  
Robust solver and Accuracy of results  
Quick simulation assembly;  
Simulation of conventional or hot stamping processes: blank and cut line, drawing folds, flanging, progressive processes, transfer, tandem and others



PAM-STAMP



Easy and friendly interface;  
10 to 1000 times faster than other software in obtaining results;  
Adaptive mesh for greater representativeness of the process;  
Great price / quality ratio;  
Simulation of several massive forming processes: forging (cold and hot), lamination, extrusion and heat treatments.

CAD for surface modeling;  
Die Desing tools;  
Analysis and correction of surfaces preserving their quality;  
Performing springback offsets based on try-out or simulation and draw shell;  
Reverse engineering for updating and copying tools.



OMNICON



Heating, carburizing, induction, nitriding and other processes;  
Analysis of the evolution and the final fractions of the metallurgical phases, hardness and distortions;  
Prediction of the residual stress state in a given part after heat treatment.

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