

NEWS RELEASE

The next generation of forming simulation: Simufact introduces the new Simufact.forming version 12

Improved ease of use achieved through a more intuitive handling, introduction of specific user errors in correlation with process specific software functions

Convenient and fast modeling based on expert knowledge (adaptive design)

Unmatched quality of simulation results through refined kinematics and improved material descriptions

Hamburg, Germany, October 21, 2013 – Simufact Engineering will release the new product version 12 of its simulation software Simufact.forming at the end of November. Simufact.forming covers a broad spectrum of different forming processes in the metal working industries. The software is primarily aiming at metalworking and -processing companies, among these the automotive and aerospace industry, but also plant and mechanical engineering companies as well as sector-related suppliers.

Improved ease of use – streamlined process modeling

Version 12 is the first to introduce the newly developed AFS technology (Application Function Sets), another important cornerstone of Simufact's usability initiative, started in 2012. The initiative aims to allow an ever more intuitive and easy generation of complex simulation processes. From the user's perspective this approach leads to time savings in the day-to-day operations.

Due to its immediate visibility, AFS is one of the most significant innovations in Simufact.forming 12. When starting the software, the user is presented a graphically appealing, initial range of application fields, such as: cold forming, hot forging, sheet metal forming, rolling, ring rolling, open die forging, heat treatment, and mechanical joining.

When selecting an application field the user opens up a large number of extra developed process specific functions. At the same time, the software focuses on relevant functions for the specific process of the selected field of application. In short: The AFS technology streamlines and eases the handling of Simufact.forming, in combination with an increased range of functions. The user handles the software more intuitive, more efficient, and more effective.

More convenient and fast modeling

Within the specific fields of application Simufact.forming provides practice-oriented default settings for process- and manufacture-specific model parameters (e.g. temperature, material, contact states). Simufact's expertise, acquired over many years in the metal forming area, has been integrated here. The user not only benefits from the increased convenience of the software, but also from considerable time savings creating the models.

Unmatched quality of simulation results

The kinematics in Simufact.forming 12 have been further refined, for a more realistic modeling in the simulation. Simufact.forming 12 automatically considers kinematic variables, such as machine-specific characteristics or the kinematic of self-regulating systems. The consideration of different process-describing kinematics allows for the necessary flexibility to receive the most realistic simulation results. In addition, the optional module *Simufact.forming kinematics* offers the possibility of including independently developed subroutines, with specific models and parameters, to include approaches or results from research and development into the simulation.

Highly relevant for the quality of the simulation results are the improved material descriptions in Simufact.forming 12. Simufact has optimized the existing material models and can therefore predict material failure more reliable than competing simulation software. Simufact.forming gives deep insights into the inner processes during the forming process and identifies critical states and developments in the material. The software aids in finding explanations to existing unsolved quality issues through simulation and how to predict these in the future.

Refined kinematics, together with above mentioned improved material descriptions contribute to a realistic simulation of forming processes with high quality of results to increase the process reliability.

For companies, achieving to integrate individual manufacturing steps to entire process chains via simulation, the quality of results of each simulation step is extremely important. This high quality demand is often expressed by customers. Simufact will accompany this matter forward-looking with their three product lines Simufact.forming, Simufact.welding, and Simufact.premap.

***Meet Simufact at the Blechexpo / Schweisstec: Hall 6, Booth 6208
(joint booth with EFB)***

Press photos are available for download

About Simufact Engineering

Simufact Engineering is a global operating software company providing process simulation products and services to manufacturing industries. Today, after more than 15 years of developing and supporting simulation solutions for the design and optimization of manufacturing techniques in metal processing, the Hamburg (Germany) headquartered company has established as one of the leaders in this business area. Simufact succeeds in extending its global market share backed up by a dynamically growing customer base exceeding a number of 500 customers. Simufact customers come from all areas of manufacturing technology: hot forging, cold forming, sheet metal forming, rolling, ring rolling, open die forging, mechanical

joining, heat treatment, and welding. As a service partner, the company is offering individual solutions for manufacturing processes, using state-of-the-art CAE tools. Additional services like consulting, training and technical support complete Simufact's performance.

In their headquarters in Hamburg, in the German offices in Aachen, Kassel, and Marburg, as well as in the company's subsidiaries Simufact-Americas in Plymouth, Michigan (USA), and Simufact India in Bangalore, Simufact employs more than 50 people. A strong and continuously growing network composed of local offices, subsidiaries and channel partners ensures global support.

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