

simufact engineering gmbh

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Simufact Engineering GmbH releases Simufact.forming 8.1, simulation software for bulk metal forming

New release offers numerous improvements and a new range of functions

Hamburg, July 1st, 2008 – Simufact Engineering GmbH, a leading provider of software and services in the area of bulk metal forming, announced today the release of version 8.1 of Simufact.forming, the advanced integrated software solution for bulk metal forming. The new version will be available to customers starting July 15th, 2008. As in the past, new developments focus on a good implementation of the software into the user's working environment. The software is user friendly, easy to learn and displays many features for practical application. In addition to other improvements, the tool contains improved meshing technology, which is proven to be more efficient, robust and powerful than past versions. Simulation times have also been reduced. The introduction of parallel computing allows larger models to be calculated faster which, in turn, provides quick results. The already existing interfaces to external CAD/CAE tools have been expanded to include direct interfaces to all standard and many third-party products.

"As the manufacturing landscape becomes more & more competitive, many companies are looking for ways to improve their processes and increase their product portfolio to offset the price pressure on existing parts in production. The much anticipated release of Simufact.forming 8.1 will greatly assist with these goals, as simulation is becoming a necessary and critical part of every companies design process", said Michael Wohlmuth, Managing Director, Simufact Engineering GmbH. "Our software for bulk metal forming has an over-all improved performance and is more efficient and robust. The standard user in bulk metal forming will be able to quickly adopt the new software environment. I see many advantages for the user, especially as the software is based on the new solver technology of MSC.Marc and MSC.Dytran."

"The industry is transitioning to Windows 64bit, running on dual-core and quad-core CPUs. This environment is supported by Simufact.forming 8.1, allowing efficient simulation of very large and detailed models. By introducing smaller details in the analysis, more aspects of the material flow can be studied and optimized, leading to significant cost savings during the physical try-out phase", said Dr. Hendrik Schafstall, Managing Director, Simufact Engineering GmbH.

Improved CAD integration and new meshing technology

With the new version, users have optional access to many direct CAD interfaces (Pro/Engineer, CATIA v4/v5, UniGraphics, Parasolid, Inventor and SolidWorks). The software also supports general data formats such as IGES, STEP, VDA-FS or ACIS. Thanks to this support feature, geometrical data import is now easier and the connection to existing CAD tools is also improved. Additionally, Simufact.forming 8.1 offers the possibility to automatically check and clean geometrical data and the new functionality to automatically simplify tool geometry is useful (i.e. for the closing of drilling holes) for data preparation in efficient tool analysis.

The new software version contains Simlab's advanced meshing technology, which helps mesh components faster and of a higher quality level than previous solutions. The new meshing technology also supports automated punching and deburring.

Flow lines, friction calculation, tool forces, and wear analysis

With the new version of the software the user is able to easily define many different flow lines, in two and three-dimensional models. Examples for this feature are the shear trap or middle line tracing and the fibre flow visualisation. Version 8.1 also offers new features for friction modelling. The combination of Coulomb friction and the maximal shear stress model allow for an even more realistic illustration of grain structure. The range of functions in Simufact.forming 8.1 are completed by new possibilities for the calculation of tool forces and tool stresses for optimal tool design.

About the Simufact Software Family

In the Simufact software environment, the user can access different application modules for different production areas, among others **Simufact.forming**, the module for forming simulation with a modular system that can be custom fit for every need. **Simufact.forming** integrates the products MSC.SuperForm and MSC.SuperForge, formerly developed and distributed by MSC.Software and is based on the standards of the MSC.Marc and MSC.Dytran solver technology.

About Simufact Engineering GmbH

The Hamburg, Germany based Simufact Engineering GmbH supports its customers as a solution provider for production technology, offering optimization and production process design by process simulation. In addition, Simufact Engineering GmbH provides optimization of formed parts through structural analysis. With Simufact.forming, Simufact Engineering GmbH generates and markets a global industry solution for metal forming. The company also specializes in service, offering individual solutions to customers' production problems using state-of-the-art CAE tools. Training and technical support for software use complete Simufact's offerings. Simufact customers come from all areas of bulk metal forming technology: forging, cold massive forming, rolling, sheet metal forming and mechanical joining. For more information, please visit www.simufact.com.

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