Product Lines

Simufact Simulation Solutions

simufact.forming
Forming Simulation

simufact.welding
Welding Simulation

Your challenges

- Inefficient manufacturing processes
- Finding the right manufacturing process chain depending on production type, batch sizes, existing equipment
- Too long process development (time-to-market issue)
- Too high costs, cost competition from alternative manufacturing processes
- Lack of knowledge about the processes at an early design phase
- Poor knowledge management (related to personnel fluctuation and retirement)
- Meet the quality and performance requirements of your customer's specification

Why Simufact?

Simufact provides ...

- the largest team of manufacturing experts dedicated to process simulation
- most accurate results with an easy-to-use GUI
- local support based on the largest worldwide network of offices
- easy-to-use, dedicated and integrated solutions for widest fields of application
- unique process chain capabilities including export of data into third-party systems

Our solution approach

Shift time- and cost-consuming shop floor try-outs into more efficient virtual try-outs

Manufacturing simulation helps you determine the best manufacturing concept (optimization with regards to costs, quality, etc.) by ...

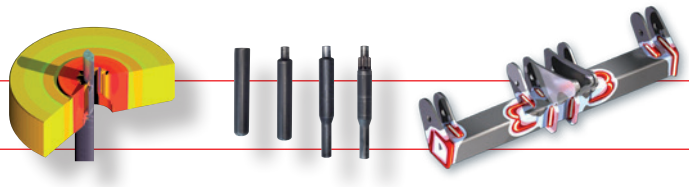
- reducing process development costs / manufacturing costs
- reducing development times = shorter time-to-market, higher on-time delivery rate
- helping to achieve the profitability (cost estimation)
- providing early understanding and deeper knowledge about manufacturing processes
- retaining, sharing, structuring, and preserving process information
- helping to establish more robust manufacturing processes and as a result: reduced risk of scrap/rework, program timing delays, cost over runs, assembly downtime, etc.
- demonstrating competence to prospects and customers

www.simufact.com

simufact
Simulating Manufacturing
MSC Software Company

Product Lines

Simufact Simulation Solutions



Whether you are interested in bulk metal forming, sheet metal forming, mechanical joining or welding technology: Simufact is a modular system that can be tailor-made for your individual applications to suit all our needs. Simufact can also be flexibly scaled to meet the scope of your work and can be supplemented by additional modules for special applications. With Simufact you can map complete process chains and produce simulation results that take into account such aspects as the material properties between the process steps while benefitting from a high level accuracy and a very low error rate. This software architecture approach ensures a well suited solution for shop-floor oriented users as well as for scientific experts.

Our modular approach

Special modules cover special processes

Simufact.forming and Simufact.welding help you simulate a broad range of forming and joining processes and special operations: forging, cold forming, rolling processes including ring-rolling, sheet metal forming, mechanical joining, heat treatment and all common welding processes.
As modern simulation tools, our products have been designed for use in design departments, method planning, or process development. In the hands of a production expert or of a development engineer, Simufact leads to a better understanding of the manufacturing processes. Optimized processes with higher product quality within a very short time are the solution for our customers in a competitive, international market.
Both product lines with their modular approach embody our product philosophy: A special manufacturing process needs special functionality – that's why we provide process-specific modules, in contrast to general-purpose tools that strive to cover all processes.

The modular approach of our products allows you to choose the functions relevant to your needs. This approach is cost-effective and can be easily adapted to changing demands. While the application modules contain process-specific functions, the additional modules included in the product lines offer further functionality that is either needed for your daily use of the software, or increase the product performance.

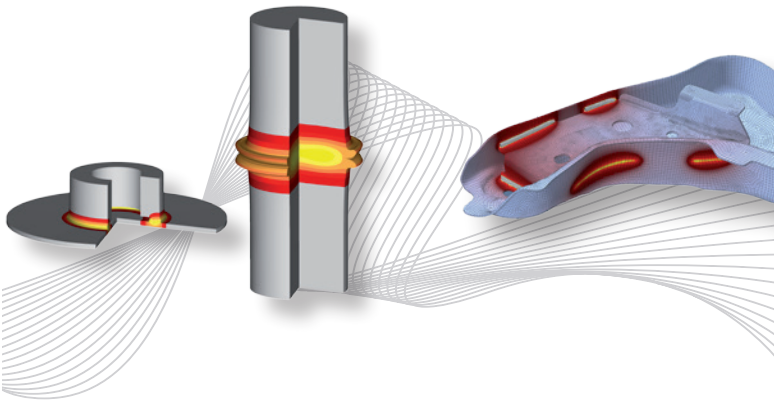
simufact.forming
Forming Simulation

simufact.welding
Welding Simulation

Interoperability

Precondition for process chain simulation

Simufact software provides interoperability capacities: Results of single simulation steps can easily be transferred to the succeeding operation (from application module to application module and from product line to product line). You can also link the software to third party products in order to use the simulation results e.g. for subsequent structure simulation. Considering the forming or joining history of your parts helps you bring your simulation closer to reality.



Simufact has built a Global Sales & Support Network providing local sales and technical support.

For more information please visit:
www.simufact.com

simufact
Simulating Manufacturing
MSC Software Company

Tempowerkring 19 · 21079 Hamburg, Germany · Phone: +49 (0) 40 790 128-000 · Fax: +49 (0) 40 790 128-199 · info@simufact.com · www.simufact.com