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Leiber Group chooses FORGE® Simulation Software to improve process development of lightweight forged components.

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TRANSVALOR, world leading solution provider for the manufacturing industry announces that LEIBER Group GmbH & Co. KG has introduced FORGE® simulation software in its research & development department to improve the design and the process development of lightweight forged components.

By reducing trials & errors and eliminating product defects, FORGE® solution speed up time-to-market and cut down engineering & production costs for the companies evolving into the forging businesses.

Simulation to serve design & process development activity at LEIBER

Since the early concept and quotation phase, LEIBER uses a broad range of technical tools, methods and the latest technology in development, design and manufacturing. LEIBER is committed to produce aluminium parts of the highest quality, even in large batches. It is crucial to determine in anticipation the optimum forging sequence and consequently to start the manufacturing of the tooling. By using FORGE®, LEIBER takes benefit from a proven fast, accurate and reliable simulation software to predict the metal flow, identify the right forging equipment and estimate tooling lifetime.

Benefits of process simulation with FORGE®

FORGE® is the perfect software solution for simulating both hot and cold forming processes in a variety of industrial sectors and for a wide range of materials (carbon steel, stainless steel, aluminium, titanium, nickel-base alloy...). During its trial period, LEIBER came along a 'Learning by Doing' process and has been able to verify on his own that the software would perfectly meet the requirements of lightweight component manufacturers. By using specific features such as grain flow and sub-skin folds analysis, FORGE® helps LEIBER engineers to preventively detect any kind of potential defects in the forgings. Looking at the shop floor, LEIBER is mainly equipped with screw press and hammers. Here, FORGE® provides guidance to predict tonnage and energy settings. Hence the right equipment can be chosen prior to move to production. Last but not least, the very effective scalability of the software allows to run FORGE® on a large number of cores and LEIBER engineers experienced significant computation time reduction when using the software up to 16 cores.



About Leiber Group

The LEIBER Group GmbH & Co. KG is a leading specialist for lightweight design components. It has its headquarters in Emmingen in southern Germany, in the region between Tuttlingen and Lake Constance-Hegau, which is renowned for its economic power. The headquarters has excellent connections to the European road network and beyond. The German production site is also located here.

The LEIBER Group GmbH & Co. KG has extensive activities in many different sectors such as automotive, two-wheeler, transport systems, machine technology, connection technology and medical technology.

Today, many well-known vehicle manufacturers already put their trust in the quality of LEIBER products which offer an impressive precision and durability. In the field of air or rail transportation, the forged parts made from lightweight materials are ideal because of their low weight, their strength and their precision. LEIBER aims at producing components that is ready to install and is tailored to the customer's requirements.

About Transvalor

Located in the Sophia-Antipolis technopole, Transvalor, founded in 1984, has developed world leading simulation software solutions dedicated to material processing. The company is strongly rooted in research & development and has always maintained a durable association with the academics among which the CEMEF laboratory from Mines ParisTech.

It is a multicultural team of about sixty staff passionate about cutting-edge technology and driven by a desire for innovation. Transvalor operates worldwide with a solid channel network and a subsidiary Transvalor Americas in Chicago. It serves more than 500 clients with a constant willingness to provide cost effective software & services and to continuously increase its customers' competitiveness.

Transvalor offers engineering software services to assist its customers about IT configuration, software training and any complex studies.

To learn more about Transvalor products and services, visit www.transvalor.com

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