

## Press Release

### AutoForm Accelerates Stamping Simulation by Using GPU

**Zurich, Switzerland, December 8, 2011: AutoForm Engineering GmbH, the leading supplier of software solutions for the sheet metal forming industry, has successfully developed a GPU version of the AutoForm solver. This version focuses on superior speed performance and enables users to take advantage of high speed-up factors of up to 2.5. The speed improvement is achieved without compromising the accuracy of the results.**

The new AutoForm GPU version enables users who run AutoForm<sup>plus</sup> R3 on today's Windows PC generation to reach a new level of speed. An Nvidia graphic card with CUDA-support and 3GB memory is the only prerequisite for users to then simulate various types of stamping parts much faster. Speed-up factors of up to 2.5 are reached by using the unique AutoForm bending enhanced membrane element (BE-M). Speed is particularly important during feasibility assessment and process engineering when the focus lies on splits and wrinkles of the stamped part.

Dr. Markus Thomma, Corporate Marketing Director of AutoForm Engineering, stated: "We are pleased to present our GPU version of the AutoForm solver. By simply making a small investment in a single Nvidia graphic card, users can reach a new level of speed. The GPU version enables users who are dedicated to the initial phases of process development to run more process design alternatives and to accelerate their engineering cycle."

**GPU:** August 31, 1999 marks the introduction of the Graphics Processing Unit (GPU) for the PC industry. The technical definition of a GPU is "a single chip processor with integrated transform, lighting, triangle setup/clipping, and rendering engines that is capable of processing a minimum of 10 million polygons per second." With the advent of the GPU, computationally intensive transform and lighting calculations were offloaded from the CPU onto the GPU – allowing for faster graphics processing speeds. (Source: [www.nvidia.com](http://www.nvidia.com))

#### **About AutoForm Engineering GmbH**

AutoForm offers software solutions for the die-making and sheet metal forming industries along the entire process chain. With over 200 employees, AutoForm is recognized as the leading provider of software for product manufacturability, tool and material cost calculation, die face design and virtual process optimization. All of the Top 20 automotive OEMs and most of their suppliers have selected AutoForm as their software of choice. Besides its headquarters in Switzerland, AutoForm has offices in Germany, The Netherlands, France, Spain, Italy, USA, Mexico, Brazil, India, China, Japan and Korea. AutoForm is also present through its agents in more than 15 other countries. For detailed information please visit: [www.autoform.com](http://www.autoform.com)

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