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ESI is the pioneer and world-leading solution provider in virtual prototyping.

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ESI Announces PAM-STAMP 2G Version 2011 A single software suite for sheet metal forming simulation

Paris, France – May 31, 2011 – [ESI Group](#), pioneer and world-leading solution provider in [virtual prototyping](#), announces the release of its [PAM-STAMP 2G](#) Version 2011.

Dedicated to all engineers involved in the sheet metal forming process, [PAM-STAMP 2G](#) Version 2011 significantly shortens time to market by providing users with the results needed to make decisions at the right time: from an early stage of design right through to production.

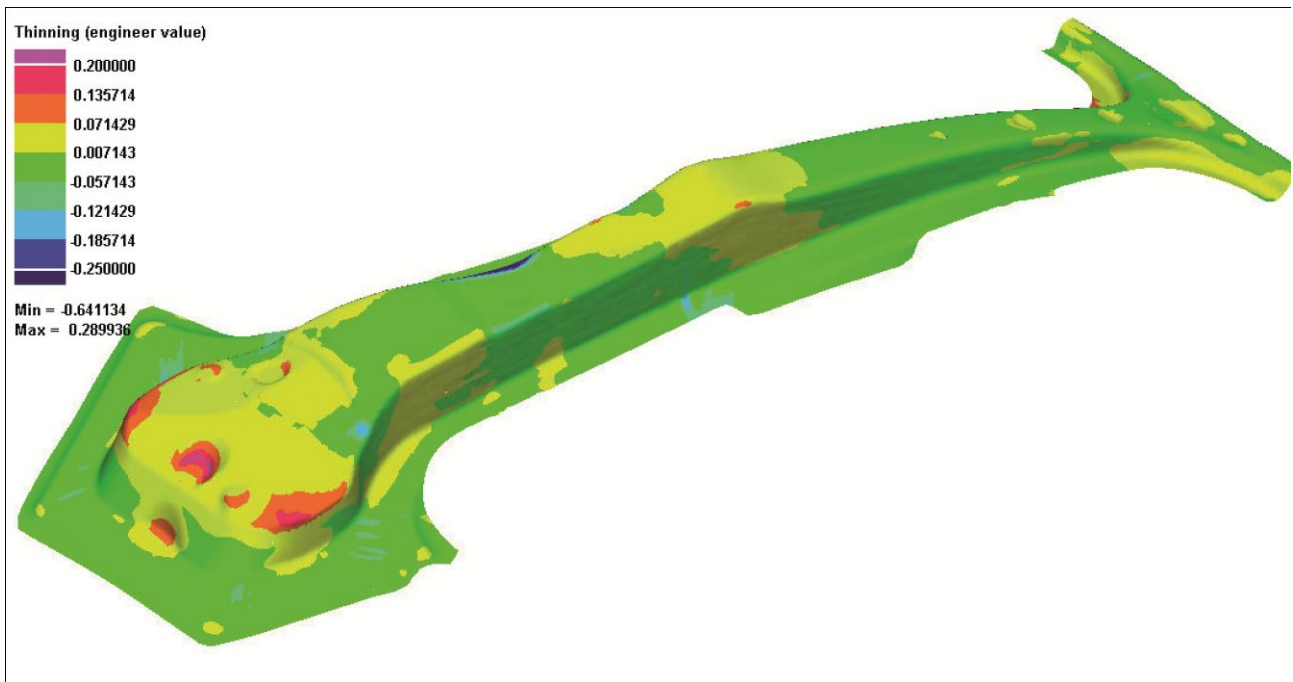
[PAM-STAMP 2G](#) is [ESI](#)'s complete and integrated, streamlined sheet metal forming solution for automotive, aerospace, and general forming applications. It takes into account the entire tooling process and provides trade-oriented virtual manufacturing.

[PAM-STAMP 2G](#) Version 2011 yet again extends the scope of sheet metal forming process simulation beyond standard stamping. For this release, the following areas were especially extended: hot forming including metallurgy and cooling, line die simulation including flanging with ironing, springback after hemming, and optimization. General usability has been improved and the iteration process with [PAM-DIEMAKER for CATIA V5](#) has been simplified. Advanced areas have also been improved for this version. For example: the detection of cosmetic effects. This allows engineers to go beyond the feasibility of the part and look into high-level quality aspects, identifying even small cosmetic defects on outer parts. In the past this could only be done physically; on a control table and by stoning or sensing physical parts. Based on virtual geometry control at every stage in the process, fully automated built-in tools are available to loop back and optimize initial blank shape and trimming lines and to compensate and/or modify the most relevant forming dies in order to reach the expected end result.

With [PAM-STAMP 2G](#) Version 2011, sheet metal forming prediction leaps from single-operation representation to full chain virtual manufacturing and optimization, providing the basis for effective decision making within tight lead times.

“AETHRA Automotive Systems, with the help of ESI South America in Brazil, significantly improved the results in prediction and resolution of surface defects in external panels using PAM-STAMP 2G. Nowadays, to satisfy customer needs, we can test different strategies in our process development because we have confidence that we'll see the same behavior in try-out,” said **Arlem Picinin Campos**, Simulation Manager at AETHRA Automotive Systems.

“[PAM-STAMP 2G](#) has enabled a fast design of the hot forming tooling. Experimental tests have then confirmed the validation of the tooling and simulation results thanks to their high accuracy,” commented **Iñigo Aranguren & Marian Gutiérrez**, Transport Unit, Tecnia Research & Innovation; based on a hot stamping research project by Renault, DieDe S.L. and Tecnia.



Hotformed B-pillar
Image courtesy of Renault, DieDe & Tecnia

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About ESI Group

ESI is a pioneer and world-leading provider in virtual prototyping that takes into account the physics of materials. ESI has developed an extensive suite of coherent, industry-oriented applications to realistically simulate a product's behavior during testing, to fine-tune manufacturing processes in accordance with desired product performance, and to evaluate the environment's impact on performance. ESI's solutions fit into a single collaborative and open environment for End-to-End Virtual Prototyping, thus eliminating the need for physical prototypes during product development. The company employs over 800 high-level specialists worldwide covering more than 30 countries. ESI Group is listed in compartment C of NYSE Euronext Paris. For further information, visit www.esi-group.com.

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