

Press Release

Efficient Planning of Hemming Processes Fully Integrated in AutoForm^{plus} R6

Wilten b. Wollerau, Switzerland, October 29, 2015: AutoForm Engineering GmbH, the leading supplier of software solutions for the sheet metal forming industry, presents its enhanced AutoForm-HemPlanner^{plus} software, which is now fully integrated in the AutoForm^{plus} R6 version. This integration offers all the advantages of AutoForm^{plus} R6's efficient workflow and a newly enhanced graphical user interface.

The accuracy of the hemming operation is very important since it affects the surface appearance and surface quality of the component. Material deformations, which occur during the hemming process, can lead to dimensional deviations and other typical hemming defects, including splits and wrinkles in the flange, material overlaps in the corner areas and material roll-in. To address these important issues, AutoForm Engineering offers the enhanced version of AutoForm-HemPlanner^{plus}, which allows for the efficient planning of hemming process.

AutoForm-HemPlanner^{plus}, which is now fully integrated in AutoForm^{plus} R6, enables users to easily define and optimize the hemming operation. In combination with AutoForm-Solver^{plus}, this software offers immediate benefits, such as: efficient planning of hemming processes to meet quality and cost requirements, effective implementation for early feasibility and final validation studies, rapid identification of typical hemming defects, prediction of full assembly springback after hemming as well as easy data exchange internally between different departments and externally between OEMs and suppliers. In addition, this software allows for compensation of inner and outer parts as well as any adjustments of the hemming equipment.

AutoForm-HemPlanner^{plus} supports roll, conventional die and table top hemming. Depending on the product development process phase, the software supports two use cases, namely quick and advanced hemming. Quick hemming is used in the early stages of product development and production planning when the die layout of the drawing and forming operations is still not available. Advanced hemming is used in process engineering when the detailed definition of the forming operations is already available.

Dr. Markus Thomma, Corporate Marketing Director of AutoForm Engineering, stated: "In combination with our powerful solver algorithms, AutoForm-HemPlanner^{plus} ensures the efficient planning of hemming processes. Users will benefit greatly from a fully integrated hemming solution provided by AutoForm^{plus} R6. The new level of speed which can be achieved is a particular highlight of the software. Depending on the selected hemming process and geometry, a hood can now be simulated in just two to six hours, which represents a significant additional benefit for users working in this field."

Hemming: Hemming is a forming operation which is used in the automotive industry to join two sheet metal panels together. During the process, the flange of the outer panel is bent over the inner one. It is commonly used to assemble the outer parts of a car, such as doors, hoods, trunk leads and fenders. The accuracy of the hemming operation is very important as it affects the surface appearance and thus influences surface quality. For detailed information please visit: www.autoform.com/en/glossary/hemming/

About AutoForm Engineering GmbH

AutoForm offers software solutions for the die-making and sheet metal forming industries along the entire process chain. With 250 employees dedicated to this field, 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

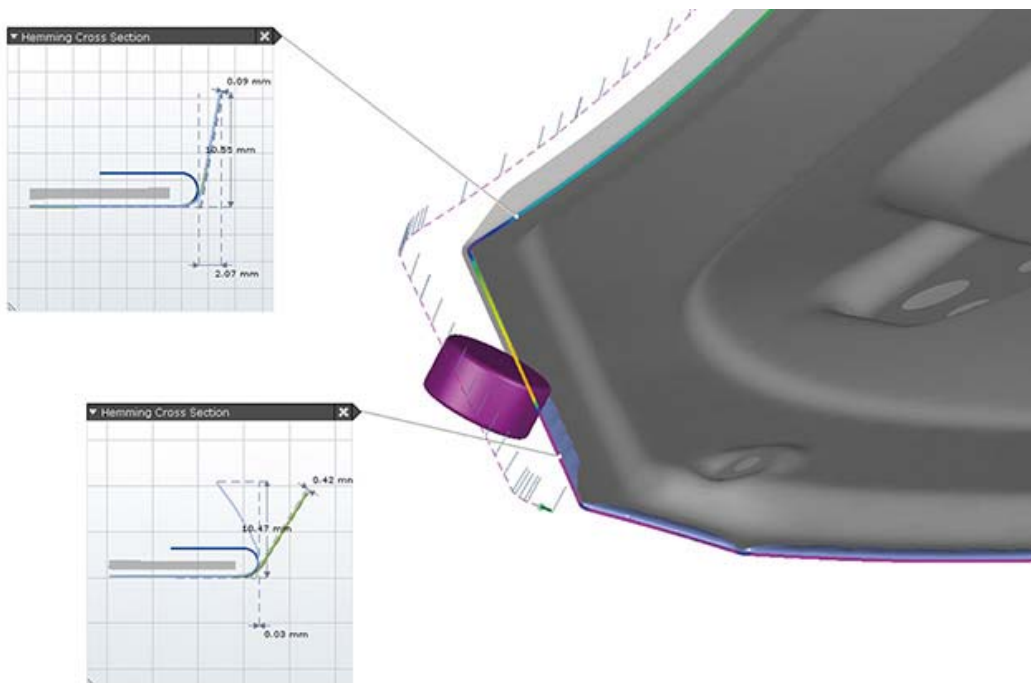
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Roll hemming process concept



Evaluation of hemming defects and material roll-in

If you need a high resolution image, please contact us.