



Autodesk Increases Moldflow Performance Two Fold

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CHICAGO, June 23 /PRNewswire-FirstCall/ -- NPE 2009 -- Autodesk, Inc. (Nasdaq: ADSK) today introduced the latest release of its industry-leading Moldflow software suite for plastics injection molding simulation and optimization.

Scheduled for next month, Autodesk Moldflow 2010, second release, part of the Autodesk solution for Digital Prototyping, offers enhanced performance, accuracy and interoperability with mainstream computer-aided design (CAD) applications. The plastics injection molding software suite is among the first in the computer-aided engineering (CAE) market to take advantage of the processing power of high-performance graphics processing unit (GPU) technology to solve complex computations twice as fast. Customers will benefit from higher accuracy for their plastics simulations through sophisticated improvements to 3D mesh analysis quality for parts and assemblies. Finally, native support for Autodesk Inventor software and a variety of other CAD models improves Moldflow integration with the product design and development process.

"We're focused on helping manufacturers reduce errors and improve injection mold performance--resulting in higher product quality and faster time to market," said Samir Hanna, vice president of Digital Factory and Industrial Design for the Autodesk Manufacturing Industry Group. "With the second release of Moldflow 2010, we are providing our customers with higher accuracy than ever before. Customers can troubleshoot and optimize plastic parts from the start of the product design cycle all the way to the manufacturing process."

The unique properties of plastics allow manufacturers to make high-quality parts that are light and strong with a high degree of repeatability. Yet there are also many challenges associated with plastics that are crucial to a product's success, such as visual defects or warpage (that is, changes that cause the part to no longer fit during assembly), that can result from a design misstep or the manufacturing process. Designers and engineers can use Autodesk Moldflow software to balance structural integrity and aesthetics when addressing these challenges, particularly for consumer products, automotive interiors and high-end building products.

"Moldflow software has a history of increasing analysis speed with every major release," said Brian Cutler, process simulation engineer, Synventive Molding Solutions. "The new graphics processing unit and 3D Parallel Flow capabilities in Moldflow 2010 will allow us to take maximum advantage of our computing power."

With the 2010 release, Autodesk simplified the Moldflow product line to bring customers more value at a lower cost. Autodesk Moldflow Insight offers powerful, in-depth simulation of the industry's most advanced molding processes using the world's largest plastics material database. Autodesk Moldflow Adviser simplifies plastics injection molding simulation and guides designers through analysis and results interpretation, helping to avoid manufacturing delays and costly mold rework. The new Moldflow 2010 release continues to set the bar for the industry through:

- Speed--A single 3D flow analysis taps into hardware advancements by using multiple central processing unit (CPU) cores. Multithreading technology accelerates Autodesk Moldflow software analysis times by a factor of two (depending on the model). To achieve even greater speed gains, Autodesk Moldflow software also is the first plastics simulation software to leverage cutting-edge GPU technology from NVIDIA Corporation for analysis calculations in combination with the multiple CPU cores.
- CAD integration--Autodesk has enhanced multi-CAD application support in Insight, and CAD models that are created or modified in Inventor software can now be imported directly into both Adviser and Insight. Insight users can import a part or a complete assembly at once. Once the CAD model has been imported, the user has full control over the meshing process and can refine the surface mesh in a specific spot where more detail is required, while leaving another area coarser.
- Accuracy--Improvements to meshing technology for 3D models enable more accurate predictions of plastics designs and processes. For example, the software provides better mesh quality in areas where the part makes a transition from a thick to thin area, in corners and at the edge of a part.

About Autodesk

Autodesk, Inc., is a world leader in 2D and 3D design software for the manufacturing, building and construction, and media and entertainment markets. Since its introduction of AutoCAD software in 1982, Autodesk has developed the broadest portfolio of state-of-the-art Digital Prototyping solutions to help customers experience their ideas before they are real. Fortune 1000 companies rely on Autodesk for the tools to visualize, simulate and analyze real-world performance early in the design process to save time and money, enhance quality and foster innovation. For additional information about Autodesk, visit www.autodesk.com.

Editorial Note: Autodesk Moldflow product videos are available on the Autodesk YouTube Channel at http://www.youtube.com/view_play_list?p=C8F7216A8B808086.

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