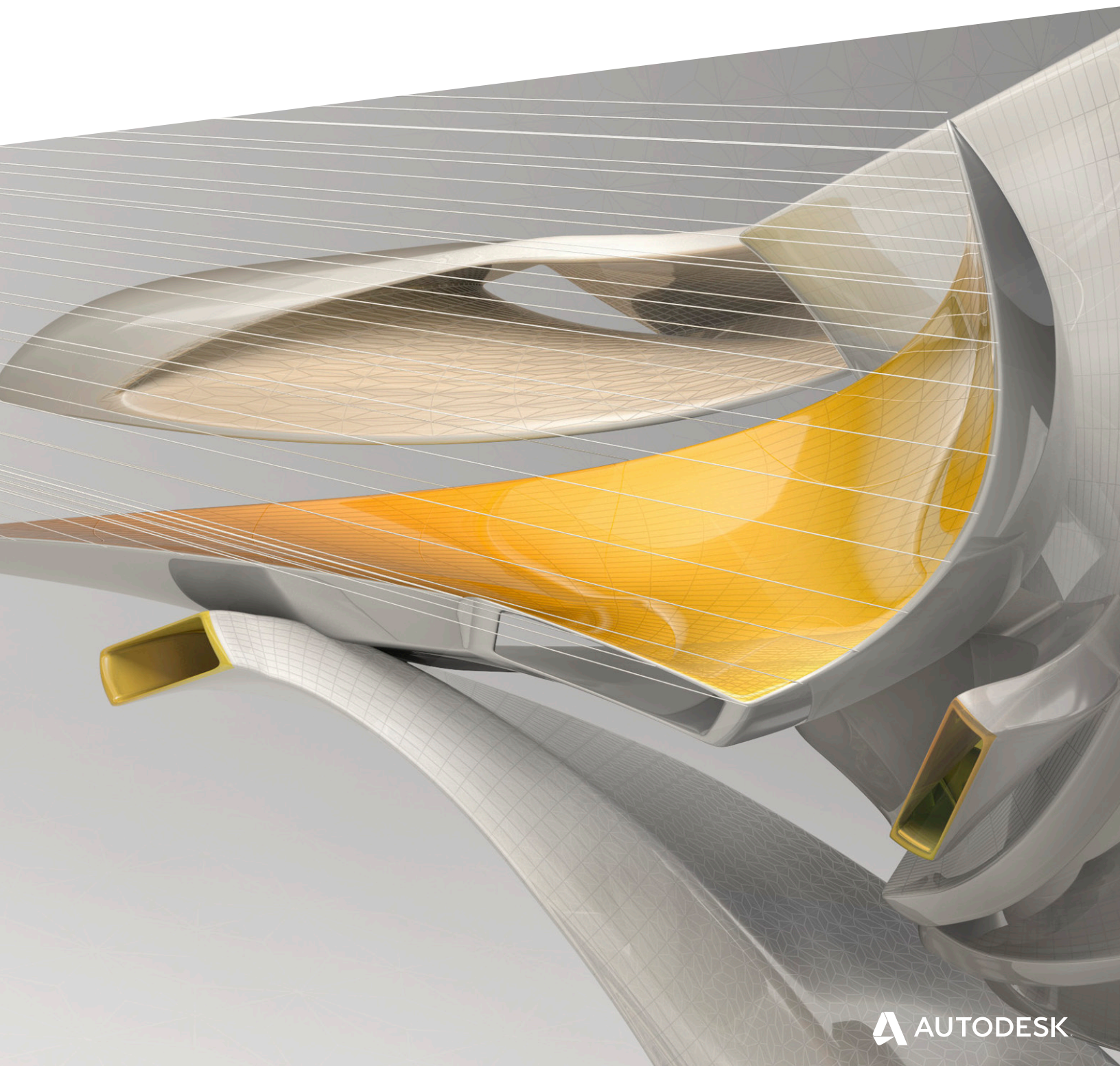# AUTODESK® **MOLDFLOW**®

Plastics made perfect

Optimize your plastic parts for plastic injection molding

AUTODESK

Providing tools for injection mold design, plastic part design, and the injection molding process. Reduce manufacturing defects and get your products to market faster.

- **Plastic flow:** Simulate the flow of thermosets and thermoplastics to help optimize plastic part and injection mold designs, reduce potential part defects, and improve the molding process.

- **Tooling layout:** Evaluate and optimize cavity location, hot and cold runner systems, and gating configurations.

- **Mold cooling configuration:** Improve cooling system efficiency, minimize part warpage, achieve smooth surfaces, and reduce cycle times.

- **Shrinkage and warpage:** Evaluate plastic parts and injection mold designs to help control shrinkage and warpage.

- **Material library:** Robust library with over 11,500 grades of material from a variety of suppliers to effectively evaluate various material options for your part design.

The Standard for injection molding simulation

Industry leading companies worldwide use Autodesk® Moldflow® software to help optimize part and mold designs, reduce potential manufacturing defects, and get innovative products to market faster.

Autodesk Moldflow provides tools to help CAE analysts, engineers, and designers evaluate different designs, mold configurations, and the different injection molding processes, reducing the need for costly physical prototypes to plan ahead for manufacturing.


The Future of Making Things...
is here, bringing with it radical changes in the way things are designed, made, and used. With the right knowledge and tools, this disruption is your opportunity.

"We have been using Simulation Moldflow for about ten years. Back then, it was the only sensible product on the market. Today, it is basically the standard tool for simulations."

—**Beat Schiegg**
Head of R&D
forteq Nidau AG
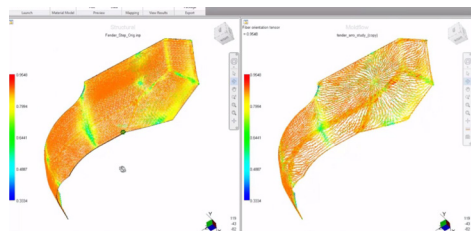
As-manufactured performance

Validate and optimize mechanical performance of as-manufactured plastic parts using tools to exchange data with mechanical simulation software. Exchange data with additional software packages to predict the real-life structural behavior of plastic parts by using as-manufactured material properties.
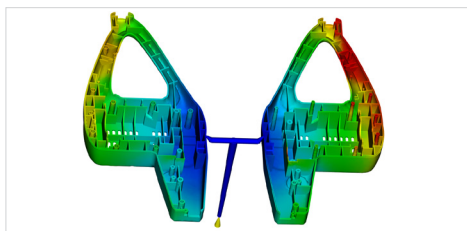

Accurately Simulate Plastic Flow

Import your CAD models into Moldflow to accurately predict plastic molding characteristics like flow patterns, in-cavity temperatures, and warpage of the plastic part. Thousands of material grades pre-loaded in the Moldflow database promote accurate solving, by matching the manufactured part material.
Predict short shots, weld and meld lines, excess material shearing, shrinkage, and more. Use detailed insights to iterate for optimizing part and mold designs. Compare visualized results for fast and easy design comparison.
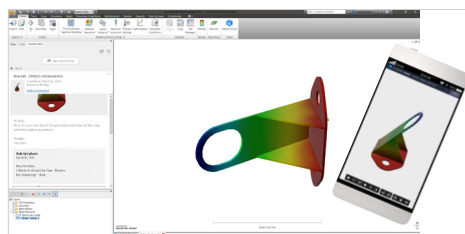
Easy Result Sharing

Various sharing options gives stakeholders clear insights to how plastic parts will be manufactured.
Share through a free result viewer, Autodesk Moldflow Communicator, with interactive animated results. Use the integrated shared views option to share browser-based results with comments that update in-borwser and in the Moldflow project. Export results and project details to secondary applications, such as Microsoft™ PowerPoint™, to create effective reports. Or, provide post-processors with warped geometry CAD models or datapoints to further analyze the part.
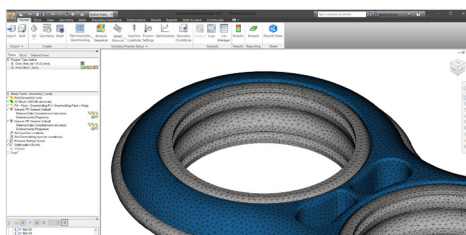
One click to mesh

Easily create, repair, and refine meshes, or choose to apply accurate automatic mesh and solve in one click. The solvers intelligently apply an appropriate size to the mesh, with refinement around smaller features. A quick switch to manual mesh sizing lets you take control and apply extra refinement where needed.

Moldflow Tools

- **Error checking and repair:** Scan imported geometry and automatically fix defects that can occur when translating a model from CAD software.

- **Specialized simulation tools:** Solve design challenges with simulation, such as insert overmolding, two-shot sequential overmolding, birefringence, and foaming processes.

- **Specialized molding processes:** Simulate a wide range of plastic injection and compression molding processes and specialized process applications.

- **Results interpretation and presentation:** Use a wide range of tools for model visualization, results evaluation, and presentation.

- **Customization:** Customize the Autodesk Moldflow user interface and databases for your organization.

- **Productivity tools:** Use advisers and extensive help content to boost productivity.

Learn more at **http://www.moldflow.com**

Make Great Products

Autodesk manufacturing software helps you make better quality products, faster. Machine, print, inspect, and fabricate parts efficiently.

· Complete modular manufacturing solutions – CAM, additive, composites

· Manufacturing expertise to automate, optimize and integrate your manufacturing processes, in addition to your software

· Cloud-connected so you can collaborate and manufacture anytime, anywhere.

Learn more at **www.autodesk.com/MAKE.**

Learn more or purchase

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Autodesk Education

Autodesk offers students and educators a variety of resources to help ensure students are prepared for successful design careers, including access to free* software, curricula, training materials, and other resources. Anyone can get expert guidance at an Autodesk Authorized Training Center (ATC®) site, and validate skills with Autodesk Certification. Learn more at **www.autodesk.com/education.**

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