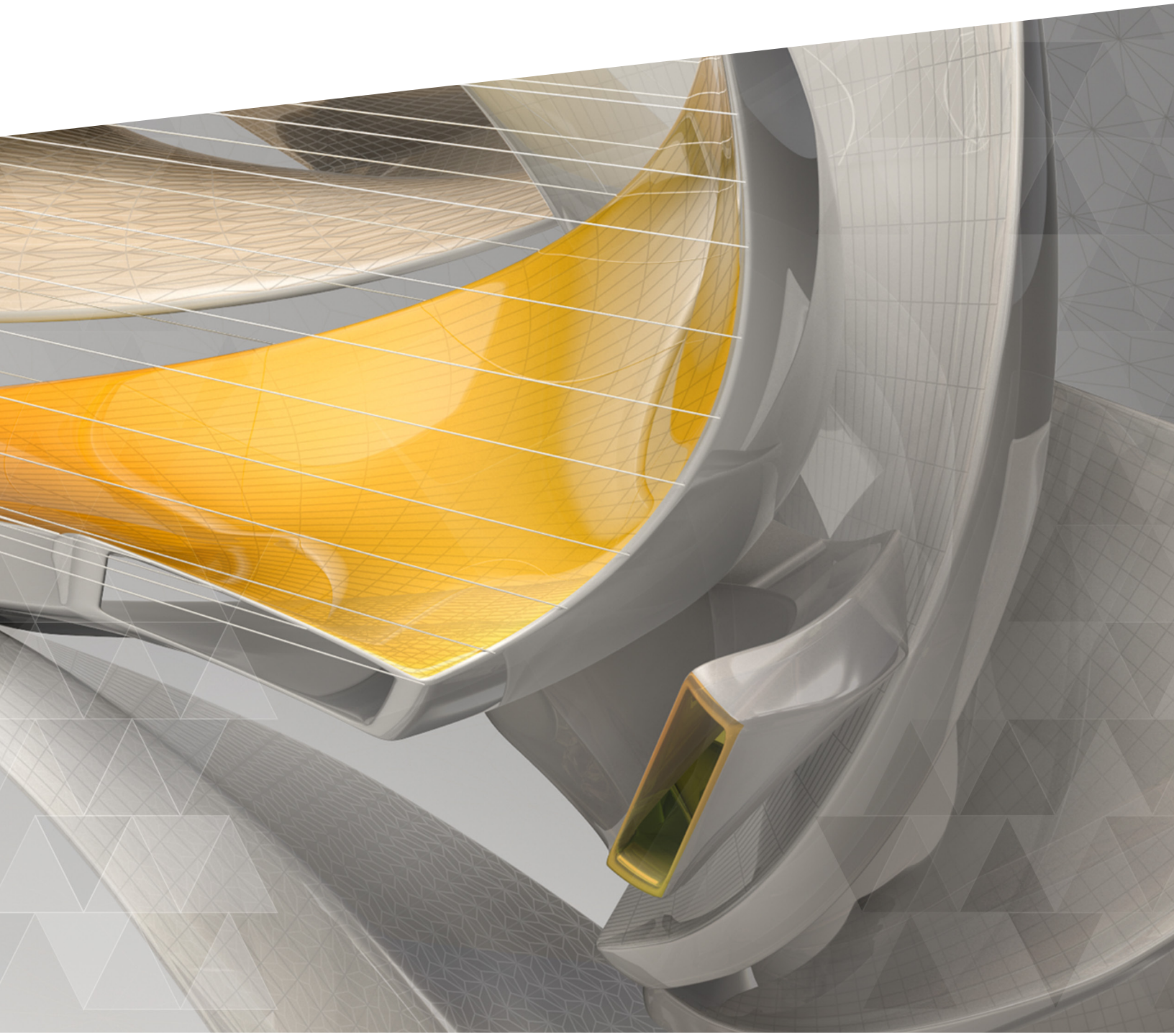
AUTODESK® MOLDFLOW® ADVISER

Plastics made perfect

Obtain direction and awareness into the manufacturing process to optimize your part and mold design.



AUTODESK.

Evaluate concepts and see impacts of design choices early in the development process.

Achieve success with…

- Intuitive, wizard-based plastic injection molding simulation tools for use on virtual prototypes
- Optimize part and mold designs
- Guided results to improve manufacturability
- Reduce cycle times
- Communicate potential manufacturing defects

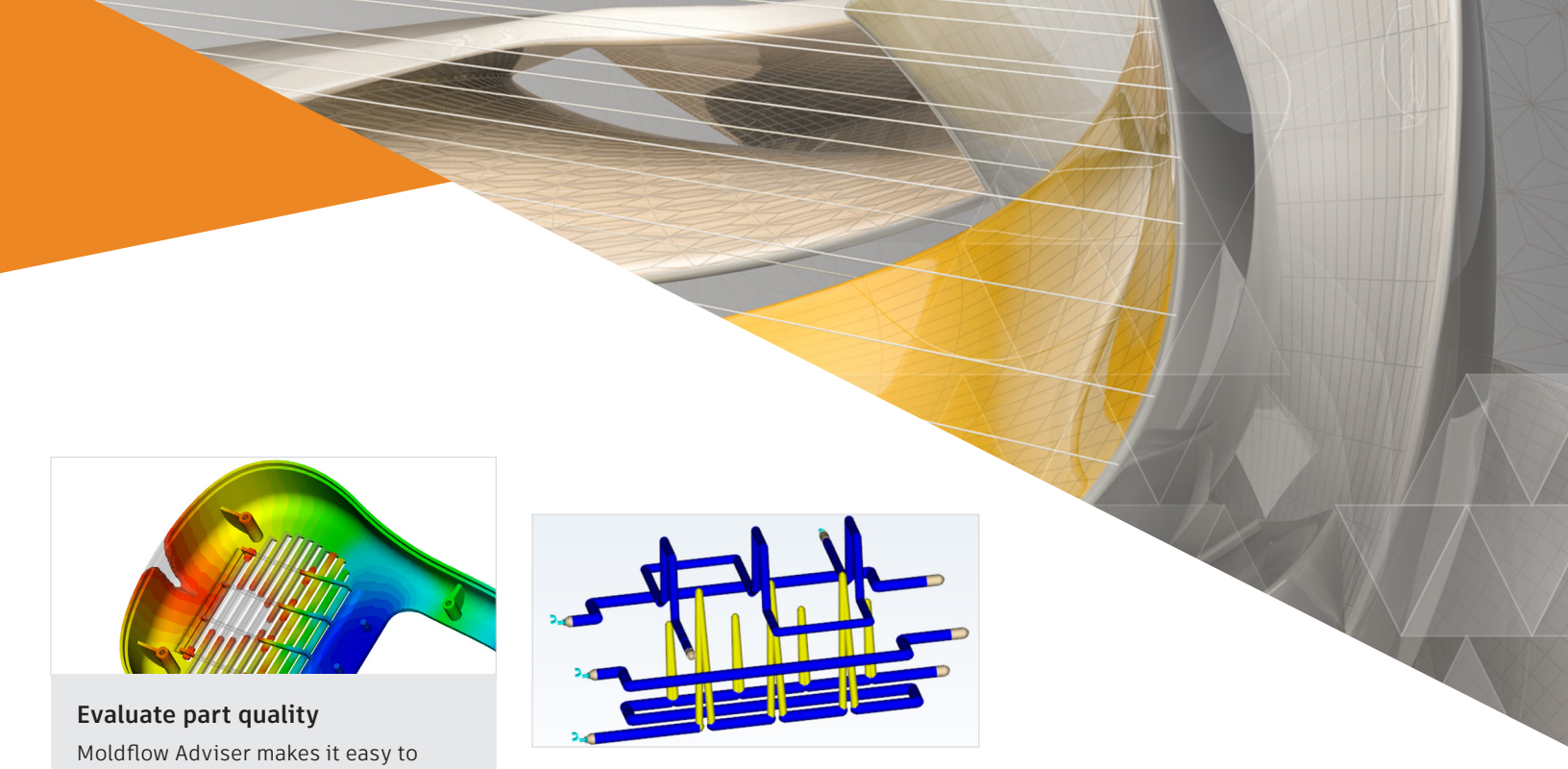
Get innovative products to market fast

Autodesk Moldflow Adviser software provides wizard-based tools to help validate and optimize plastic part, injection mold, and tool designs before manufacturing begins. Using a virtual prototype to simulate the plastic injection molding process helps reduce the number of physical prototypes required to design plastic parts and helps get innovative products to market faster and with greater confidence.

Intuitive to learn and use, Moldflow Adviser software provides results-specific advice on potential manufacturing problems and suggestions for corrective action. By resolving and communicating problems early in the product development cycle, Moldflow Adviser software helps designers and mold makers design plastic parts and injection molds with confidence. The Design Adviser in Autodesk Moldflow software helps you quickly identify areas of plastic parts that violate design guidelines related to the injection molding manufacturing process.

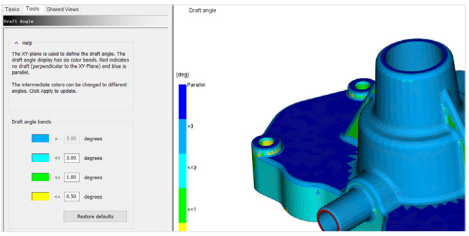
“Cycle time is money. This is particularly visible in the case of high-volume production, where reducing cycle times by a fraction of a second translates into viable profits.”

–Jarosław Jaśkowiak
Marketing Director
FADO1



Evaluate part quality

Moldflow Adviser makes it easy to evaluate different gating scenarios to see how it will impact your manufacturing process and part quality. Gate location can greatly impact part quality, weld and meld line locations, potential air traps, and the overall warpage of the part. Find the most appropriate gate location and run a filling analysis to give you more results related to part quality. Review various results such as: fill time, air trap locations, sink marks, temperature at flow front, and volumetric shrinkage.

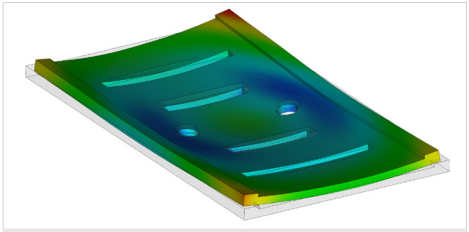


Evaluate part design

Design Adviser is an analysis sequence helping to identify part design features that could cause potential problems such as thickness variations, draft angles, and undercuts.
Accepting a wide range of file formats, the Import Wizard runs a check automatically to review the part geometry and performs some minor repairs as needed during the import. It then deermines which mesh type to use, either Dual Domain (triangular) or 3D (tetrahedral).

Effective mold modeling

Evaluate and compare cooling layouts early in your design process. Wizards within Adviser make it easy for a user to add cooling circuits. Quickly create simple drilled cooling channels automatically with a few clicks in a wizard, or, customize by importing or drawing more complex systems using modeling grids.
Side by side comparisons of different cooling designs help effectively compare two or more choices. Evaluate your cooling results to see potential problems such as non-uniform temperatures or localized hot spots to help assess any impact on cycle time and warpage.



Evaluating part tolerance

Analyze part warpage to evaluate your design. Compare your gate locations and use the Examine tool to examine a point on the part to show you the contributing factor causing warpage. See overall shrinkage and warpage trending and identify the root cause to see the areas to improve. Evaluate and revise your design for optimal part quality.

Advisers and wizards

Setup wizards help guide user easily to create model components such as runners, cooling circuits, and the mold. Moldflow's Advisers provide deeper insights into the plastic part and mold designs such as runner blancing. The cost advisor helps to predict the production costs with various inputs including equiptment, material, and post-process costs. The dynamic help updates while navigating results to help with interpreting result plots.

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.

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