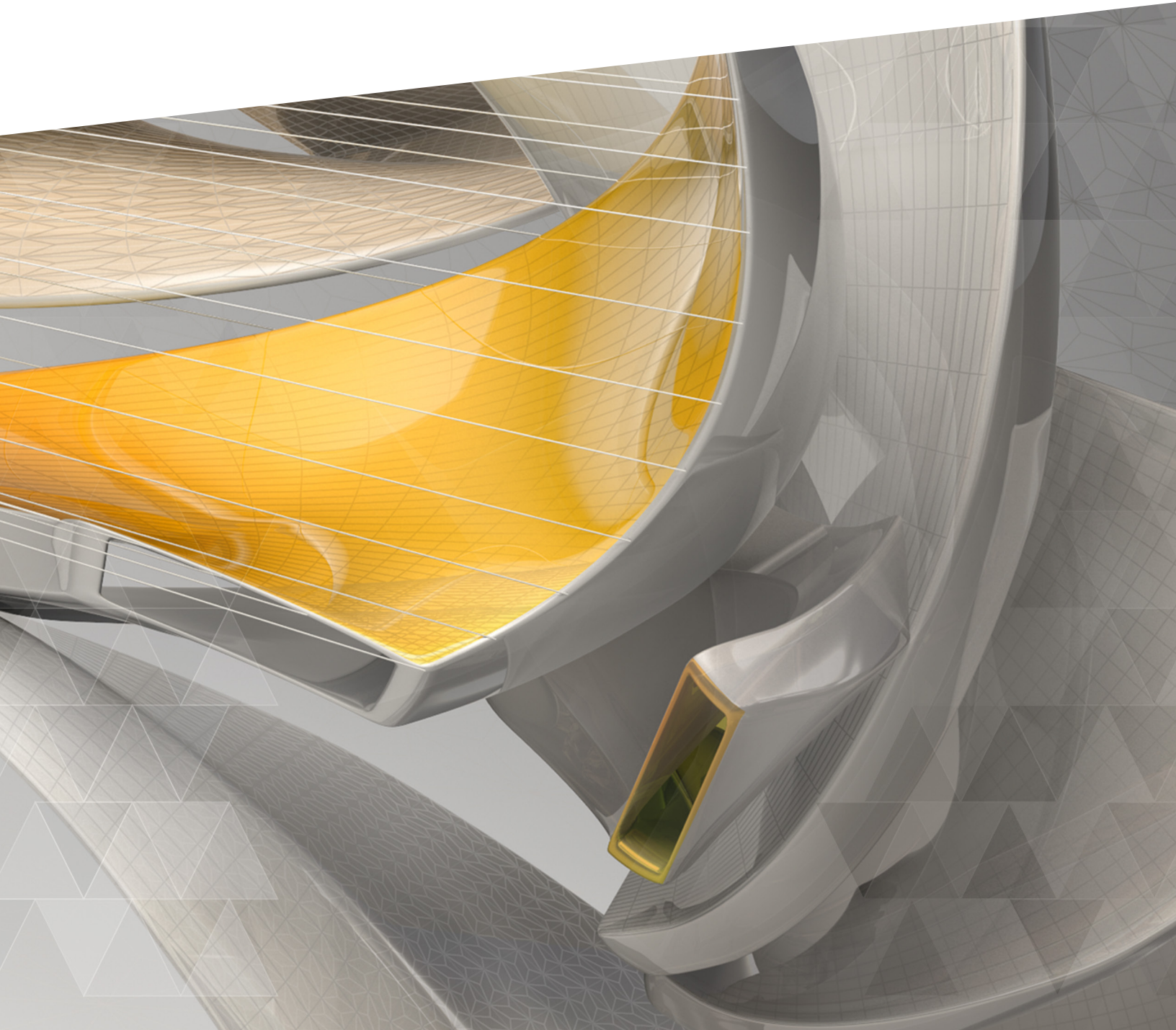


Plastics made perfect

Achieve precision through comprehensive material data and process performance customization.



Simulation for specialized molding processes

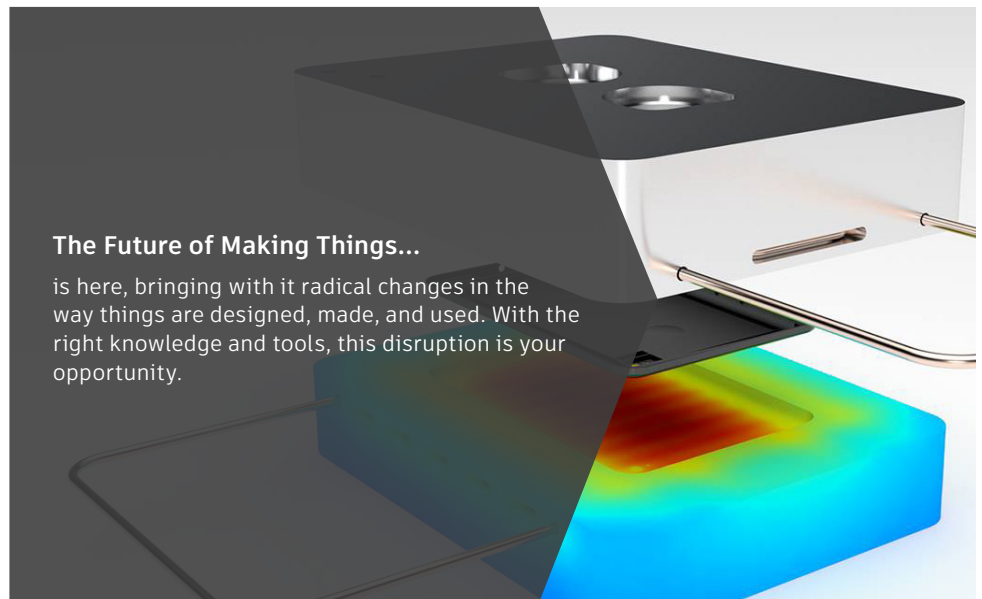
Achieve success with...

- Predict and correct part defects
- Simulates the most advanced molding processes
- Provides the highest degree of confidence in simulation results, for even the most complex geometry
- World's largest material database for plastics simulation

The Standard for injection molding simulation

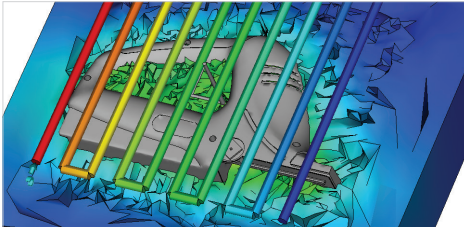
Moldflow Insight gives top manufacturers the tools needed to overcome the unknown challenges of developing plastic injection molded parts. Through the validation and optimization of plastic parts and injection molds early in the design phase, it is possible to bring innovative products to market faster. Moldflow Insight guides you through the simulation setup and results interpretation to show how changes to part design, mold geometry, and processing conditions will affect manufacturability.

Simulation provides the ability to experiment with “what-if” scenarios before cutting steel and molding parts. This ability to evaluate different scenarios throughout the entire product development cycle results in higher quality products. Autodesk Moldflow Insight software allows manufacturers to “get it right the first time,” to help avoid mold rework, reduce physical prototypes, and minimize both cost and time delays that could occur during the manufacturing phase.



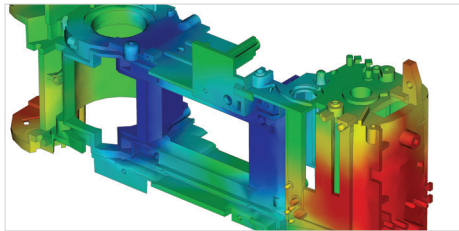
“It is important to know the locations of weld lines and air traps to take appropriate actions in the mold design.”

–Roland Hölz
Dipl.-Ing. (FH)
Automotive Lighting Reutlingen GmbH



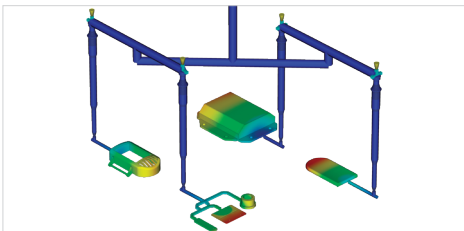
Advanced cooling

Capture advanced cooling techniques and layouts, such as conformal cooling, as well as transient heat calculations. Iterate on the cooling channel layout and the cooling process to produce high-quality products with short cycle time. Simulate advanced cooling technologies, like rapid heating and cooling and conformal cooling. Evaluate the effect of highly conductive materials, as well as heating elements and thermal pins, on the cycle time and product quality.



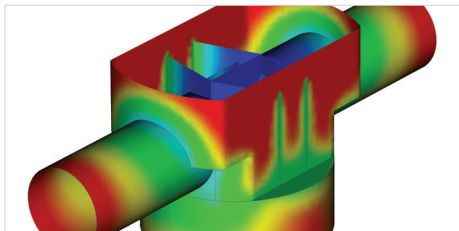
Advanced processes

Moldflow Insight gives you access to specialized processes that help increase innovation. Create quality parts for applications that conventional injection molding can't address. Simulate compression molding for making very large parts that are otherwise difficult to mold. Simulate injection compression molding for low-stress, smaller parts, such as plastic lenses. Simulate the gas-assisted injection molding process to improve the location of gas injection positions, delay time, pressure profile, and packing time so you can achieve optimal gas penetration.



Part optimization

Include model geometry parameter range values to assess how geometry modifications affect the manufacturing process. Determine which input process variables, such as mold temperature or injection time, can influence the quality of the part. With automated geometric optimization, you don't have to manually iterate on different wall thicknesses to determine the best design. Instead, the software displays several different combinations for you to choose from. Understand the stability of your manufacturing process, and identify the major factors that influence your product defects or machine molding limits.



One click to mesh

Improve your productivity by meshing and analyzing your model in one step. Define your processing conditions for your part and move to analysis through the combination of the meshing and analysis process.

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
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