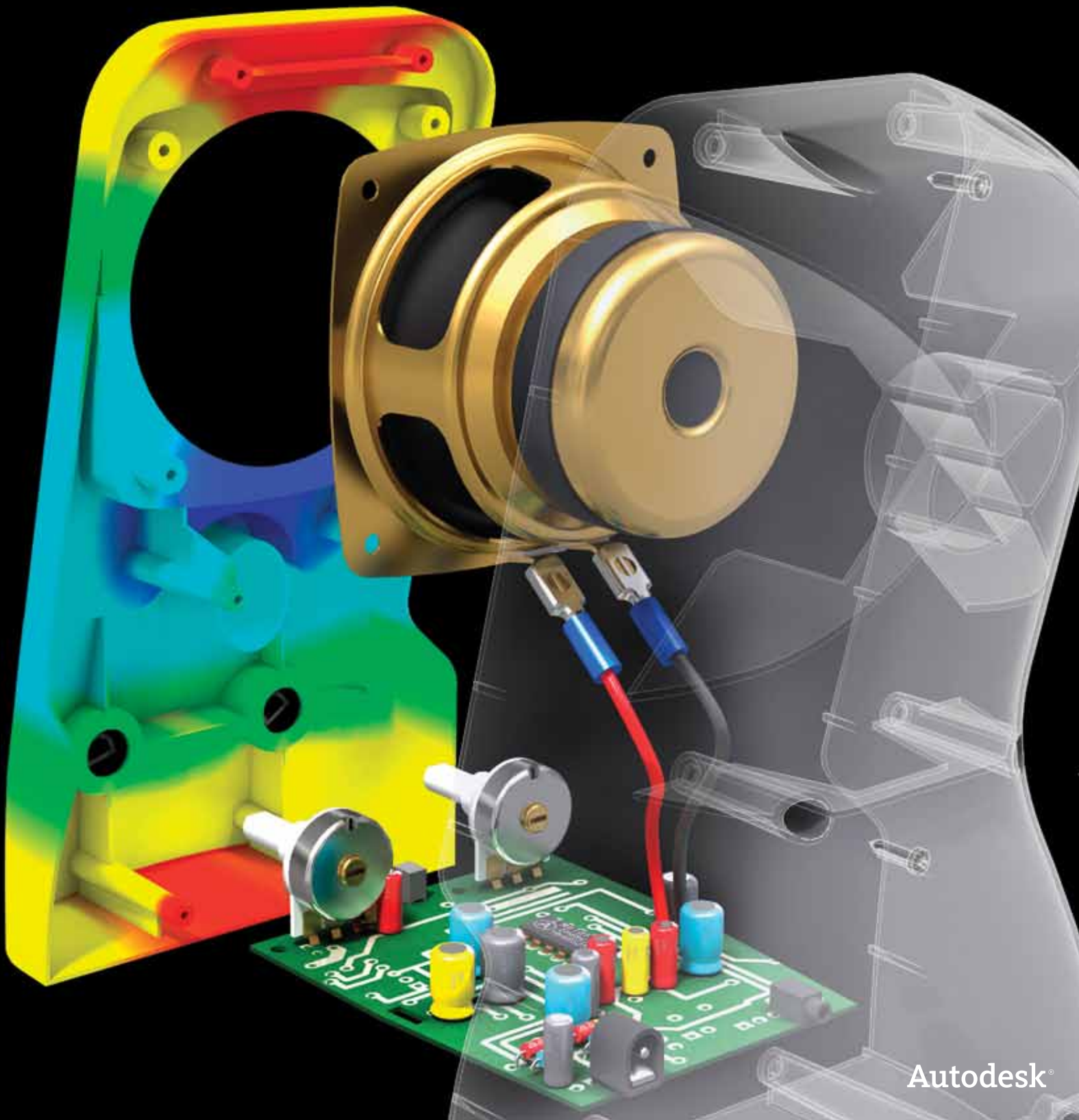
Autodesk®
Moldflow® Insight

Plastics made perfect.



Autodesk®

Validation and Optimization of Plastic Parts

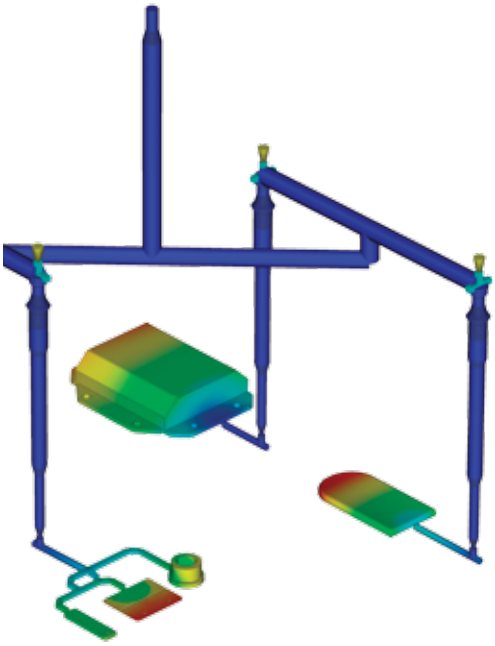
With the use of plastic parts on the rise in almost every industry, and the pressure to reduce costs and cut time to market, the need for simulation tools that provide deep insight into the plastic injection molding process has never been greater.

Facing these issues?

- Need to make accurate design decisions without building multiple physical prototypes.
- Time to market is often the critical factor in the success or failure of a product.
- Part defects discovered in manufacturing delay production, cost time and money to fix, and in the worst case, may require new mold tooling to resolve.
- Need to accurately simulate real-world injection molding processing conditions.
- Confidence in simulation results is required before investing resources in design changes or new products.
- It is difficult to communicate valuable simulation results to other members of an extended design team.

Validate and optimize plastic parts with Autodesk Moldflow Insight.

Autodesk® Moldflow® Insight software, part of the Autodesk® solution for Digital Prototyping, provides injection molding simulation tools for use on digital prototypes. Providing in-depth validation and optimization of plastic parts and associated injection molds, Autodesk Moldflow Insight software helps study the injection molding processes in use today. Used by some of the top manufacturers in the automotive, consumer electronics, medical, and packaging industries, Autodesk Moldflow Insight software helps to reduce the need for costly mold rework and physical prototypes, minimize delays associated with removing molds from production, and get innovative products to market faster.



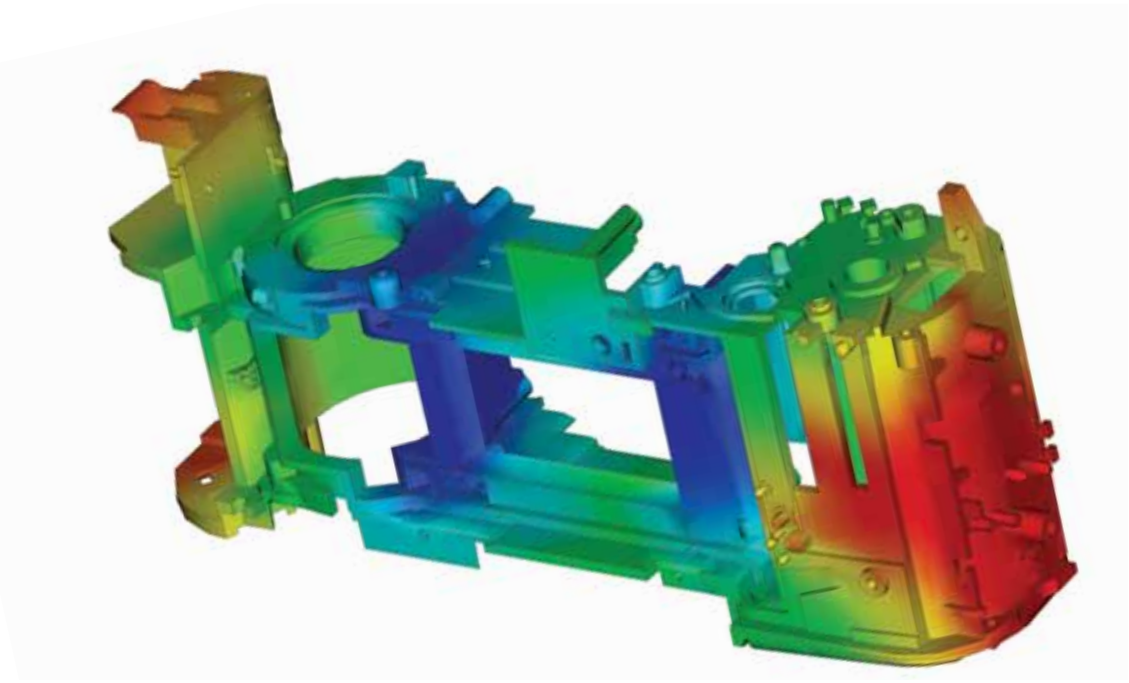
Plastic Flow Simulation

Autodesk Moldflow Insight software helps simulate the filling and packing phases of the injection molding process, to better predict the flow behavior of melted plastics and achieve higher quality manufacturing. Engineers can optimize gate locations, balance runner systems, evaluate processing conditions, and predict and correct part defects. Mold makers can simulate the effects of non-uniform mold temperatures, determine optimized valve-gate timing sequences, and compare flow through hot versus cold runner systems. Optional modules extend simulation capabilities beyond traditional thermoplastic injection molding to specialized molding processes including gas-assisted, co-injection, and injection-compression.

Early Optimization

Autodesk Moldflow Insight software guides designers, mold makers, and engineers through simulation setup and results interpretation to show how changes to wall thickness, gate location, material, geometry, mold designs, and processing conditions affect manufacturability. Geometry support ranging from thin-walled parts to thick and solid applications helps to experiment with "what-if" scenarios before finalizing a design. 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," so they can help avoid the cost and time delays that frequently occur during the manufacturing phase.



Specialized Simulation Tools

A wide range of design and manufacturing issues associated with the plastic injection molding process can be addressed with Autodesk Moldflow Insight software. It includes specialized simulation tools for practically every molding process involved in the creation of plastic parts and injection molds, including specialized and leading-edge processes. The software helps users simulate not only the most common, but many unique molding techniques for those times when a specialized manufacturing process is needed to meet critical design requirements. With technology advances that span material characterization, process simulation, and geometry support, Autodesk Moldflow Insight software represents the forefront of plastics simulation—helping to shorten development cycles, reduce costs, and allow teams to spend more time innovating.

Extensive Plastics Database

Autodesk Moldflow Insight software includes one of the largest material databases of its kind. With access to over 8,000 grades of commercial plastics with up-to-date and accurate material data, manufacturers can more easily evaluate various material candidates and have greater confidence in the simulation results, better predicting molded part properties that could affect performance. There are also Energy Usage Indicators and Resin Identification Codes so designers can further decrease manufacturing energy requirements and choose materials that contribute to sustainability initiatives.

In-Depth Simulation

In-depth simulation capabilities in Autodesk Moldflow Insight software help engineers tackle even the most difficult manufacturing problems. Providing a high degree of confidence in simulation results and support for even the most complex geometry, Autodesk Moldflow Insight software helps engineers predict and avoid potential manufacturing defects before mold tooling is created, minimizing costly overruns and production delays and accelerating time to market.

Customized Results and Reporting

With complete control over simulation parameters and extensive and customizable results, Autodesk Moldflow Insight software helps engineering teams correlate the digital prototype to real-world processing conditions with a high degree of accuracy, determine the cause of potential problems, and take corrective action to avoid the problems. Once the simulation is complete, the automated report generation tools can be used to share reports in popular formats (HTML, Microsoft® Word, and PowerPoint®), allowing valuable simulation data to be shared with other members of the extended design team, promoting collaboration and streamlining development.

Autodesk Moldflow Insight Product Line

With different product configurations that offer specific levels of functionality, Autodesk is dedicated to helping CAE analysts, designers, engineers, mold makers, and molding professionals create accurate digital prototypes and bring better products to market at less cost.

Digital Prototyping for the Manufacturing Market

Autodesk is a world-leading supplier of engineering software, providing companies with tools to experience their ideas before they are real. By putting powerful Digital Prototyping technology within the reach of mainstream manufacturers, Autodesk is changing the way manufacturers think about their design processes and is helping them create more productive workflows. The Autodesk approach to Digital Prototyping is unique in that it is scalable, attainable, and cost-effective, which allows a broader group of manufacturers to realize the benefits with minimal disruption to existing workflows, and provides the most straightforward path to creating and maintaining a single digital model in a multidisciplinary engineering environment.

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