

# Engineering

Engineering software is applied to 3D models to verify that a proposed design or modification will look and perform to specifications before manufacture or construction. The software is used to optimise design by predicting part performance under different “virtual” conditions. AMS™ uses various engineering software by Autodesk, with Mould Flow Advisor being one of the more prominent.

## Moldflow Advisor (Autodesk)

The software allows us to assess and resolve potential manufacturing defects early in the product development process, thereby ensuring confidence in your part design and injection moulds. Wizard-based tools help validate and optimize plastic part, injection mould and tool designs before manufacturing begins. Using a digital prototype to simulate the plastic injection molding process helps reduce the number of costly physical prototypes required to design plastic parts and helps get innovative products to market faster and with greater confidence.

**Software capabilities cover three broad areas:**

### Simulation

Validates and optimises part design and injection moulds. It allows for the simulation of the flow of melted plastic to help optimize part and mould designs, reduce potential part defects and improve the molding process.

### CAD Interoperability and Meshing

Provides tools for native CAD model translation and optimization and geometry support for thin-walled parts and thick and solid applications. It allows you to select mesh type based on desired simulation accuracy and solution time.

### Results Evaluation and Productivity

Provides tools to visualize and evaluate simulation results, with automatic reporting tools to share the results with stakeholders. Takes advantage of features such as a materials database and a cost adviser to further boost productivity.

For more information on Autodesk's Moldflow Advisor, contact Customer Service & Technical Support - Chris Dodson  
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