

Autodesk Inventor Fusion for Moldflow



Autodesk® Inventor® Fusion is 3D modeling software that showcases intuitive direct manipulation capabilities for unrivaled ease of use. By uniting direct modeling and parametric workflows, Inventor Fusion offers the best of both worlds. Designers can freely explore complex shapes and forms while maintaining the underlying parametric history. Inventor Fusion makes it easy to open and edit 3D models from almost any source and incorporate them into your design, enabling rapid design changes without limitations.

Features:

File Translation

- Inventor Fusion offers expanded Import and Export Capabilities over the traditional offering for Moldflow users

	CAD Format	Autodesk Moldflow	Autodesk Moldflow Design Link	Autodesk Inventor Fusion
Import Formats	STL	X		
	IGES	X (Insight Only)	X	X
	Inventor		X	X
	SAT		X	X
	STEP		X	X
	Parasolid		X	X
	Catia V5		X	X
	SolidWorks		X	X
	Pro/Engineer		X	X
	JT			X
	Alias			X
	Rhino			X
	123D			X
	DWG			X
Export Formats	STL	X		X
	IGES	X		X
	Catia V5			X
	Pro/Engineer			X
	STEP			X
	SAT			X
	DWG			X
	DWF			X
	Parasolid			X

History Free Modeling

Autodesk Inventor Fusion offers a variety of modeling abilities, fully functional in a history-free environment.

- Parts can be created and modified with easy
- Assemblies can be constrained and defined
- Complete selection of solid modeling tools for CAD professionals



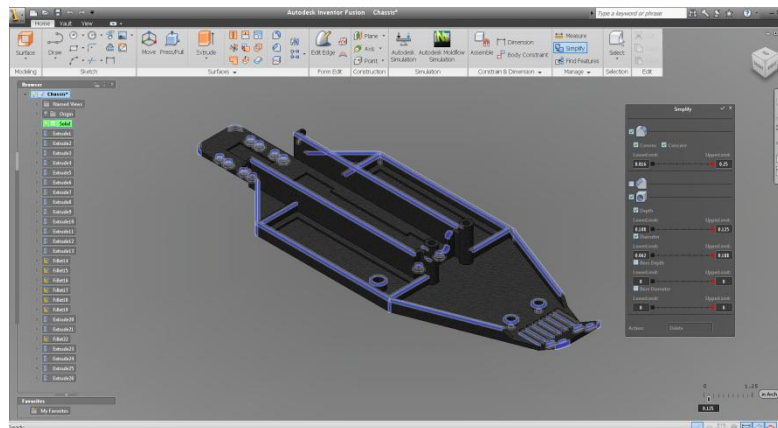
- Complete selection of surface tools for surface modeling or repair



Model Clean-up

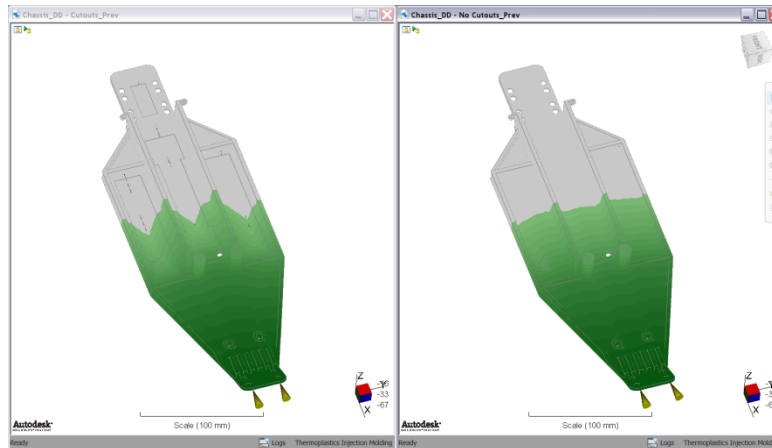
Model preparation is a key component for any simulation package. Moldflow like all Finite Element Analysis packages requires accurate and appropriate data for simulation

- Removal of small mesh intensive features is always recommended
 - Especially when they add no significance to the analysis
- Repair of surface geometry to create solids is often needed from translation files
- Feature recognition can add in the understanding and clean up of a model being prepared for simulation
- Integrity of a model is key to any simulation



Part Modification and Seamless Roundtrip

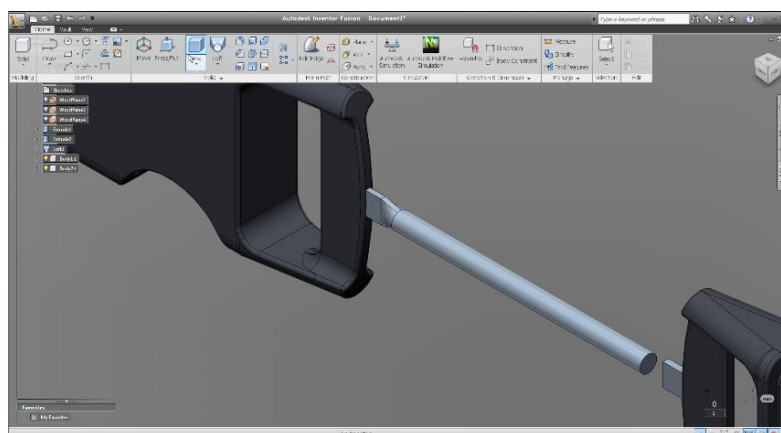
Often a result of a simulation like Moldflow is the need to redesign or modify geometry. In the past this required going back to the original CAD data for modification. Use Autodesk Inventor Fusion now and you can modify geometry from any available CAD format, AND use the geometry interoperability with Moldflow to send data automatically to Inventor Fusion and back, with the need to save external files. Roundtrip your data, and keep all of your previously specified simulation data, like injection locations, processing condition, and analysis setting.



Advanced Runner System Modeling

When dealing with advanced interactions of runner systems, it is recommended at times to have a 3-Dimensional representation of a runner system for Moldflow. This will allow the software to calculate detailed interaction and movement of polymer through a runner, without the assume of a beam element.

- Creating 3D runners in the past as required the use of another CAD system
 - Most complex runners are difficult to model in Moldflow for 3D meshing



How do you get Autodesk® Inventor® Fusion?

Autodesk Inventor Fusion 2012 software is included in [AutoCAD® 2012](#), [Autodesk® Inventor® 2012](#), [Autodesk® Simulation 2012](#), [Autodesk® Moldflow® 2012](#), and [Autodesk® Alias® 2012](#) software, offering an easy 3D modeling experience from directly within these Autodesk applications.