

Autodesk® Moldflow® Adviser 2012

# AMA Model Import Formats

Autodesk®

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# Supported model import formats

# 1

This table lists the model formats that you can import.

**NOTE:** The table below lists the various model formats that you can import. Note that most of these formats require additional Autodesk Moldflow Design Link software to be installed. The add-in enables you to read additional file formats.

File format	Recognized file extensions	Required software
Autodesk Inventor 2012	*.ipt	Autodesk Moldflow Design Link
CATIA V5R20	*.catpart	Autodesk Moldflow Design Link for CATIA V5
Pro/ENGINEER Wildfire 5.0	*.prt	Autodesk Moldflow Design Link for Pro/ENGINEER
Parasolid V22	*.x_t,*.x_b,*.xmt_txt,*.xmb,*.xmt	Autodesk Moldflow Design Link for Parasolid
SolidWorks 2011	*.sldprt	Autodesk Moldflow Design Link for Parasolid
SAT <sup>1</sup>	*.sat	Autodesk Moldflow Design Link
STEP	*.stp,*.step	Autodesk Moldflow Design Link for Parasolid OR Autodesk Moldflow Design Link for Pro/ENGINEER
IGES	*.igs,*.iges	Autodesk Moldflow Design Link for Parasolid OR Autodesk Moldflow Design Link for Pro/ENGINEER
Autodesk study file	*.sdy	None
Stereolithography	*.stl	None
ASCII model	*.udm	None
MPA 7.3 legacy model	*.mpa,*.mda,*.adv	None

<sup>1</sup> You can import a SAT file (versions 4.0–7.0).

File format	Recognized file extensions	Required software
Surface mesh for AMA	*.amm	None

**NOTE:**

- When saving the model, ensure that the extension matches the entry in the table above.
- Unless the model has a \*.sdy, \*.mpa, \*.mda or \*.adv file format, only a single cavity can be imported. Multiple cavity models must be separated into single cavities before import. After import, the individual cavities can be combined into a family mold if required.

## Supported model import formats



You can import models of different formats into this product for analysis.

### Importing a CAD model


You can import existing CAD model files to begin the part design process. Before you import a model, it is best that you first create a new project or open an existing project. When you import a CAD model, you are prompted to select the following settings:

- units (when an STL model is selected)

**NOTE:** Autodesk Moldflow Design Link is the preferred method for importing geometry data.

- 1 Open an existing project or create a new project.
- 2 Click  **Home tab > Import panel > Import**, or right-click in the **Project View** pane and select  **Import**.

The **Import Wizard - Model selection** dialog appears.

- 3 Enter your model name in the **Import** text box, or click **Browse**  to locate your file.
- 4 Select the correct file extension for your CAD model from the **Files of type** drop-down list.
- 5 Navigate to the folder where your CAD model is located and select it.
- 6 Click **Open**, then click **Next**.
- 7 Select the appropriate units from the **Import Wizard—Units** dialog, then click **Next**.
- 8 If necessary, select options from the **Advanced options** dialog.

- 9 Click **Next** to check for defects in the imported model. Then, once the processing phase is over, click **Next**.
- 10 Read the advice from the **Analysis type** dialog, and then select an **Analysis type** for your model.

---

**NOTE:** You can view the processing log by selecting the **Show Log** checkbox.

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- 11 Click **Finish**.

The model appears inside the **Project View** pane.


### Importing an ASCII format model file

You can import existing ASCII model files, and export model files as ASCII format with the extension (\*.udm). When you import the model file, you will be prompted to select the analysis technology that you require.

To import an ASCII model file, apply the following steps.

- 1 Open an existing project or create a new project.
- 2 Click  **Home tab > Import panel > Import**, or right-click in the **Project View** pane and select  **Import**.

The **Import Wizard** dialog appears.

- 3 Enter your **Import model name**, or click  (**Browse**) to locate your file. Select the correct file extension for your CAD model from the **Files of type** drop-down list.
- 4 Navigate to the folder where your CAD model is located and select it.
- 5 Click **Open**.
- 6 Click **Next**.  
The **Import wizard—Unit** page appears ready for you select the appropriate units.
- 7 Click **Finish**.

### Importing a model from MPA 7.3 or earlier

MPA version 7.3 and earlier uses a different file format than later versions.

To open a model used in MPA version 7.3 or earlier, it must be imported into a project.


This procedure still retains the model geometry, runners and cooling lines, and the results generated in the earlier version.

---


**NOTE:** Changing the analysis settings of a study invalidates the existing results. Some analysis sequence combinations supported in \*.ADV format

are no longer supported in Autodesk Moldflow Adviser; therefore, some results may not be imported.

---

- 1 Open an existing project or create a new project.
- 2 Click  ( **File > Import** ) or, right-click in the **Project View** pane and select **Import**.

The **Import Wizard** dialog appears.

- 3 Click  **Browse** to locate your file.
- 4 Select **Legacy MPA files (\*.adv, mpa, mda)** from the **Files of type** drop-down list.
- 5 Navigate to the folder where the legacy MPA model is located, and select it.
- 6 Click **Open**.
- 7 Click **Next** on each page, and then click **Finish** on the final page.
- 8 Click **OK**.

The model appears in the **Project View** pane.

### Importing a surface model from Autodesk Moldflow Insight


You can import a Dual Domain surface model file that has been exported from Autodesk Moldflow Insight software.

Before you import a model, create a new project (or open an existing project) in which to store the model.

Selecting the **Surface mesh for AMA (\*.amm)** file type allows you to import the model as prepared in Autodesk Moldflow Insight.

- 1 Click  **Import** from the **Standard** toolbar, or alternatively **File > Import** .

The **Import wizard—Model selection** dialog appears.

- 2 Click  **Browse**, and then select **Surface mesh for AMA (\*.amm)** from the **Files of type** list, navigate to the location where the desired file is stored, and click **Open**.

If you have recently imported a \*.amm model, it can be selected from the **Recently imported models** list.

- 3 Click **Next**.  
The **Import Wizard—Units** dialog appears. The units and dimensions of the model are displayed.

---

**NOTE:** Because the \*.amm surface model is imported as prepared in Autodesk Moldflow Insight, you cannot change these values.

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- 4 Click **Next**.  
The **Import wizard—Advanced options** dialog appears. The **Check suitability** option is selected by default. The program examines the model and determines whether it is suited for Dual Domain or 3D analysis. You can choose not to check suitability.

---

**NOTE:** Because the \*.amm surface model is imported as prepared in Autodesk Moldflow Insight, the **Automatic cleanup** option is not available.

---

- 5 Click **Next**.  
The **Import wizard—Processing** dialog appears, and an initial check of the model takes place.
- 6 Read the **Advice** and select the **Analysis type** for your model.

---

**NOTE:** You can view the processing log by selecting the **Show Log** checkbox.

---

- 7 Click **Finish**.

The model appears in the **Model** pane.



## Supported model import formats

Select a model to import, and specify the units of measure and analysis technology for the import process.

To access this dialog, click  then  (**Open > Import**).

### Import—Create New Project dialog


This dialog is used to create or open a project when you import a file with no project open. A project can be thought of as a container that holds all work related to a particular design.

To access this dialog, close the current project, click , and then click  (**Open > Import**). Create or open a project, and then continue to locate and open the file to be imported.

### Import Wizard dialog—Model Selection page

Select CAD files to be imported.

The **Model selection** page of the **Import Wizard** is used to select the CAD model. You can either pick a existing model from the **Recently imported**

**models** list, or click  **Browse** to select one from another location.

### Import Wizard dialog—Units page

Apply a system of measure to a model file that does not already have one assigned.

---

**NOTE:** Once model units have been assigned, you can still change the **Display Units**.

---

### Import Wizard dialog—Advanced Options page

Select import checks to avoid defective models.

The **Advanced Options** page of the **Import Wizard** is used to select import checks. If both **Automatic cleanup** and **Check suitability** options remain selected, Autodesk Moldflow Adviser will attempt to fix any defects in the model, report any defects that cannot be fixed, and recommend an appropriate analysis type (Dual Domain or True 3D).

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**NOTE:** The **Automatic cleanup** option is not available when importing the **Surface mesh for AMA (\*.amm)** file type.

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### Import Wizard dialog—Processing page

View the progress of the import tasks, and optionally choose an analysis technology which differs from the advised analysis technology.

The **Processing** page of the **Import Wizard** displays the progress of the selected import checks. The text box at the bottom of the dialog informs you if any defects in the model could not be fixed. If all the defects cannot be fixed by Autodesk Moldflow Adviser, either:

- Fix the model in your CAD application.
- Check and fix the model in a model repair tool.
- Continue to import and analyze the model, but take care when interpreting the results.

---

**NOTE:** If all the defects are not corrected, it is only possible to perform a standard (Dual Domain) analysis.

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Once the import checks are complete, Autodesk Moldflow Adviser recommends the appropriate analysis type for your model, and displays additional information about the model type and the analysis types available.

# Autodesk Moldflow Design Link

# 2

Autodesk Moldflow Design Link provides a geometry data translation interface to leading CAD systems.

Autodesk Moldflow Design Link is an add-on program for Autodesk Moldflow Insight and Autodesk Moldflow Adviser, which provides a geometry data translation interface between the Autodesk Moldflow range of simulation products and leading CAD systems.

Autodesk Moldflow Design Link uses standard file formats, such as IGES and STEP, and also enables the direct import of native Inventor, Parasolid, SolidWorks, Pro/ENGINEER, and CATIA V5 part files.

After installing Autodesk Moldflow Design Link, and if you have the required licenses, a number of additional CAD file types will automatically become available on the CAD file import dialog in Autodesk Moldflow Insight or Autodesk Moldflow Adviser.

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**NOTE:**

- The first character of the CAD file name must be a letter and not a number.
  - The file name must consist of letters or numbers, and must not include dashes or any other characters.
- 



## Autodesk Moldflow Design Link

You can import a number of different CAD file types if you have Autodesk Moldflow Design Link installed.

### Importing or Processing a CAD model using Autodesk Moldflow Design Link

To begin the part design process, you can import or process existing CAD model files using Autodesk Moldflow Design Link.

Before you import a model, first create a new project (or open an existing project) in which to store the model.

- 1 Click  **Home tab > Import panel > Import**, or right-click in the **Project View** pane and select  **Import**.  
The **Import** dialog appears.
- 2 Navigate to the folder where your CAD model is located and select it.
- 3 Click **Open**.

- 4 If you selected a native CAD geometry, do one of the following:
  - a Click **Direct Import using Autodesk Moldflow Design Link** to import the model in its native format
  - b Click **Process using Autodesk Moldflow Design Link** to translate the model.

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**NOTE:** If you selected this last option, click **Advanced**, select the required alternate meshing parameters that Autodesk Moldflow Design Link offers and click **OK**.

---

- 5 Select the analysis technology to be used from the drop-down list.
- 6 Click **OK**.

---

**NOTE:** The model appears inside the **Project View** pane.

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# Using models imported from Autodesk Simulation products

# 3

Autodesk Simulation products are used to perform a structural analysis on a part.

Incorporating the material properties and flow-induced characteristics of a plastic part enhances the structural analysis results.

When a part is exported from Autodesk Simulation to Autodesk Moldflow Adviser, the model is automatically reviewed and three default settings are made.

---

**NOTE:** An Advanced license is required to take advantage of this feature.

---

**Analysis technology** The analysis technology is the method employed to represent and analyze the model geometry. Thin, shell-like parts are modeled using Dual Domain analysis technology. Parts that have regions that are locally thick are often better analyzed using 3D analysis technology. The program recommends the appropriate analysis technology to use based on the imported model geometry.

**Material** The polymer defined while the model is being prepared in Autodesk Simulation is imported and by default is selected for the Autodesk Moldflow Adviser analysis.

**Gate location** Gate location is the point where the plastic enters the mold. The suggested gate location is based on the model geometry and process considerations such as ensuring that the extremities of the mold finish filling at the same time. This reduces warpage of the final part.

The gate location analysis does not take into account individual part constraints. Limitations imposed by the mold design and aesthetic considerations of having the surface mark caused by a gate in a location that is visible for the end user may result in alternate or multiple gates being used in production.

If the gate location is changed in the final part to accommodate these individual constraints, the subsequent Autodesk Simulation analysis also will be changed. Changing a gate location changes the flow patterns, fiber orientation and possibly the warpage of the part, all which can impact on the structural properties of the final part.

For analyses of parts where structural performance criteria are critical, it is important that the gate location used in the analysis should match the gate location used in production.

These three default settings can be altered as required.

---

**NOTE:** In order for Autodesk Moldflow Adviser results to transfer successfully for the structural analysis, you cannot change the orientation of the imported model with respect to the global coordinate system or modify the geometry. You should not change the name of the study that was created on import.

---

## Using models imported from Autodesk Simulation products

Models imported from Autodesk Simulation structural analysis products need to be prepared for an analysis.

### Using Autodesk Simulation products with Autodesk Moldflow Adviser

Models imported from Autodesk Simulation products are easily prepared for a Moldflow analysis.

Several preliminary steps are set automatically when working with a model exported by Autodesk Simulation products. The material selected in the Autodesk Simulation product is imported, an appropriate analysis technology is selected, a gate location based on the geometry of the part is recommended, and the analysis sequence is set to **Fill+Pack**.

---

**NOTE:** An Advanced license is required to take advantage of this feature.

---

Select **Run Fill+Pack Analysis** to select the default settings.


An injection location is placed at the suggested gate location and the analysis is performed.

---

**NOTE:** For analyses of parts where structural performance criteria are critical, it is important that the injection location used in the analysis should match the injection location used in production.

---

You can select alternate gates and materials as required.

When you have set up the Autodesk Moldflow Adviser analysis parameters you require, select  **Start Analysis!**

When the analysis is complete, the resulting process-induced mechanical properties automatically are made available to Autodesk Simulation for use in the structural analysis.

---

**NOTE:** In order for Autodesk Moldflow Adviser results to transfer successfully for the structural analysis, you cannot change the orientation of the imported model with respect to the global coordinate system or modify the geometry. You should not change the name of the study that was created on import.

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# Supported STEP entities

# 4

This table lists the STEP entities that are supported by Autodesk Moldflow Adviser

STEP entity classes	Parasolid entity	
<b>Topology</b>		
MANIFOLD_SOLID_BREP	PK_BODY_t	---
CLOSED_SHELL	PK_SHELL_t	---
ADVANCED_FACE	PK_FACE_t	---
EDGE_LOOP	PK_LOOP_t	---
ORIENTED_EDGE	PK_FIN_t	---
EDGE_CURVE	PK_EDGE_t	---
VERTEX	PK_VERTEX_t	---
<b>Geometry</b>		
CARTESIAN_POINT	PK_POINT_sf_t	---
LINE	PK_LINE_sf_t	---
CIRCLE	PK_CIRCLE_sf_t	---
ELLIPSE	PK_ELLIPSE_sf_t	---
PARABOLA	PK_BCURVE_sf_t	With vertex_dim=4 in Parasolid
HYPERBOLA	PK_BCURVE_sf_t	With vertex_dim=4 in Parasolid
PLANE	PK_PLANE_sf_t	---
CYLINDRICAL_SURFACE	PK_CYL_sf_t	---
CONICAL_SURFACE	PK_CONE_sf_t	---
SPHERICAL_SURFACE	PK_SPHERE_sf_t	---
TOROIDAL_SURFACE	PK_TORUS_sf_t	---
<b>Spline Curves</b>		
UNIFORM_CURVE	PK_BCURVE_sf_t	With vertex_dim = 3 in Parasolid

Spline Curves		
QUASI_UNIFORM_CURVE	PK_BCURVE_sf_t	-do-
BEZIER_CURVE	PK_BCURVE_sf_t	-do-
B_SPLINE_CURVE_WITH_KNOTS	PK_BCURVE_sf_t	-do-
NURBS	PK_BCURVE_sf_t	With vertex_dim = 4 in Parasolid
TRIMMED_CURVE	CURVE_t	Base curve is mapped which gets trimmed by the boundary vertices in Parasolid
SURFACE_CURVE	CURVE_t or PK_SPCURVE_t	
INTERSECTION_CURVE	CURVE_t	Only the curve is mapped to corresponding curve in Parasolid
PCURVE	PK_SPCURVE_t	---

Spline surfaces		
B_SPLINE_SURFACE_WITH_KNOTS	PK_BSURF_sf_t	With vertex_dim = 3 in Parasolid
UNIFORM_SURFACE	PK_BSURF_sf_t	-do-
QUASI_UNIFORM_SURFACE	PK_BSURF_sf_t	-do-
BEZIER_SURFACE	PK_BSURF_sf_t	-do-
NURBS	PK_BSURF_sf_t	With vertex_dim = 4 in Parasolid

Others		
SURFACE_OF_LINEAR_EXTRUSION	PK_SWEPT_sf_t	---
SURFACE_OF_REVOLUTION	PK_SPUN_sf_t	---
CURVE_BOUNDED_SURFACE	PK_BODY_t	
RECTANGULAR_TRIMMED_SURFACE	PK_BODY_t	
SHELL_BASED_SURFACE_MODEL	PK_BODY_t	
FACETED_BREP	PK_BODY_t	
OFFSET_SURFACE	PK_OFFSET_sf_t	
BLEND	PK_BSURF_sf_t	
SPUN_SURFACE	PK_SPUN_sf_t	

# Importing IGES model files

# 5

This is a table summarizing the IGES entities supported by this product.

IGES files have the extension \*.igs or \*.iges. This table lists the IGES entities supported by the file import feature in Autodesk Moldflow Adviser. The supported IGES versions are 5.3 or earlier.

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**NOTE:** Autodesk also supplies Autodesk Moldflow Design Link which has extended IGES import capabilities and the ability to import native file formats.

---

## Supported IGES entities

The following table lists the IGES entities that are recognized and translated when reading in an IGES file. If the IGES file contains entities that are not listed here, they will be ignored in the translation process.

IGES entity name	IGES entity number	Form number	Parasolid entity
Circular Arc	100	0	Circle
Composite Curve	102	0	Curve List
Conic Arc: Ellipse	104	1	Ellipse
Conic Arc: General	104	0	Spline Curve
Copious Data: 2D Path	106	11	Curve List
Copious Data: 3D Path	106	12	Curve List
Copious Data: Closed 2D Curve	106	63	Curve List
Plane: Bounded	108	1	Plane
Line	110	0	Line
Parametric Spline Curve	112	0	
Parametric Spline Surface	114	0	
Ruled Surface	118	1	Spline
Surface of Revolution	120	0	Spun Surface

IGES entity name	IGES entity number	Form number	Parasolid entity
Tabulated Cylinder	122	0	Swept Surface
Direction	123	0	Vector
Transformation Matrix	124	0	Transf
Rational B-Spline Curve	126	0	Spcurve
Rational B-Spline Surface	128	0	Spline
Offset Curve	130	0	Curve
Offset Surface	140	0	Surface
Boundary Entity	141	0	Loop
Curve on a Parametric Surface	142	0	Loop
Bounded Surface	143	0	Face
Trimmed Surface	144	0	Face
MSBO*	186	0	Solid
Plane Surface*	190	0	Plane
Right Circular Cylindrical Surface*	192	0	Cylinder
Right Circular Conical Surface*	194	0	Cone
Spherical Surface*	196	0	Sphere
Toroidal Surface*	198	0	Torus
Subfigure Definition Entity	308	0	Solid
Associative Instance Entity	402	1,7	--
Singular Instance Entity	408	0	Solid
Vertex List*	502	1	Vertex
Edge List*	504	1	Edge
Loop*	508	1	Loop
Face*	510	1	Face
Shell*	514	1	Shell

\* Requires Autodesk Moldflow Design Link to be installed.

## Importing IGES model files

To obtain an accurate analysis, it is important that the IGES model is imported correctly.

### Guidelines for preparing IGES files for import

To successfully translate an IGES model into an Autodesk model suitable for analysis, the model must have been correctly prepared in the CAD system.

- The entire model must be described by IGES surfaces, not just lines and curves.
- Lines and curves can be used to import the cooling channels of a mold, and can be used as the basis for cooling channels construction. You may be able to export the center line geometry of the cooling lines from the CAD package.
- If possible, simplify the model to remove unnecessary detail, such as reference planes and very small features that have no effect on a Fill+Pack or a Stress analysis.
- Before exporting a model to be used by Dual Domain analysis technology, check in the CAD system that the part is fully closed, i.e. no gaps between surfaces.
- Export as surfaces, not shells.

### Flow leader and deflector surfaces

Flow balance, where the extremities of the product fill at the same time, is achieved by changing the thickness of flow leader or deflector surfaces. The location and shape of such surfaces can be estimated and introduced before running a Fill+Pack analysis.

# Importing STL model files

# 6

This topic lists the requirements for importing stereolithography (\*.stl) files.

- 1 The STL file should be complete and incorrupt.

An ASCII .stl file must start with the lower case keyword solid and end with endsolid.

For example:

```
solid
...
facet normal 0.00 0.00 1.00
outer loop
vertex 2.00 2.00 0.00
vertex -1.00 1.00 0.00
vertex 0.00 -1.00 0.00
endloop
endfacet
...
endsolid
```

- 2 The STL file can be in either ASCII or binary format. It is important to use the correct format with FTP. For example, if you have a binary STL file, you must set the FTP file type to “binary” before transferring.
- 3 Only one solid should be present.

## Importing STL model files




How to import STL file types.

### Importing an ASCII format model file

You can import existing ASCII model files, and export model files as ASCII format with the extension (\*.udm). When you import the model file, you will be prompted to select the analysis technology that you require.

To import an ASCII model file, apply the following steps.

- 1 Open an existing project or create a new project.

- 2 Click  **Home tab > Import panel > Import**, or right-click in the **Project View** pane and select  **Import**.  
The **Import Wizard** dialog appears.
- 3 Enter your **Import model name**, or click  (**Browse**) to locate your file. Select the correct file extension for your CAD model from the **Files of type** drop-down list.
- 4 Navigate to the folder where your CAD model is located and select it.
- 5 Click **Open**.
- 6 Click **Next**.  
The **Import wizard—Unit** page appears ready for you select the appropriate units.
- 7 Click **Finish**.

# Importing geometry from Autodesk Inventor 2012

# 8

Autodesk Inventor 2012 is a comprehensive and flexible set of software for 3D mechanical design, simulation, tooling creation, and design communication.

The Inventor model is a 3D digital prototype that enables you to validate the form, fit, and function of a design as you work, minimizing the need to test the design with physical prototypes.

Autodesk Inventor products include automated mold design tools that work directly from Inventor 3D models of plastic parts. Powered by Autodesk Moldflow plastic flow analysis tools, Inventor can help to optimize your design for moldability and minimize mold iterations.

You can export geometry from Autodesk Inventor 2012 into Autodesk Moldflow Adviser.

## Importing geometry from Autodesk Inventor

How to import Autodesk Inventor files.

### Setting up Autodesk Inventor for exporting files

You can export geometry from Autodesk Inventor 2012 into Autodesk Moldflow Adviser.

- 1 Open Autodesk Inventor
- 2 Ensure the Autodesk Moldflow Adviser third party component is running.
  - a Select **Tools > Add-ins**.

The Add-in manager dialog is displayed.
  - b Find **Autodesk Moldflow Adviser** in the list.
  - c Ensure the **Loaded/Unloaded** checkbox is selected.
  - d Ensure the **Load On Startup** checkbox is selected.
  - e Select **OK**.

---

**NOTE:** If you cannot see the **Autodesk Moldflow Adviser** toolbar, click **Tools > Customize**, then select **Autodesk Moldflow Adviser** from the Toolbars tab and click **Show**.

---

- 3 Open a model or create a new one.

- 4 Select **Tools > Autodesk Moldflow Adviser > Moldflow Adviser**.  
Autodesk Moldflow Adviser launches.

# Importing geometry from Pro/ENGINEER® Wildfire® 5.0

# 9

Pro/ENGINEER® Wildfire® 5.0 is a software package that enables you to design parts, build assemblies, sketch sections, produce drawings, construct surfaces, create sheet metal parts, and exchange data.

You can export geometry from Pro/ENGINEER® Wildfire® 5.0 so that it can be used in Autodesk Moldflow Adviser.

---

**NOTE:** If Pro/ENGINEER® Wildfire® 5.0 cannot be automatically located by Autodesk Moldflow Adviser during installation, select the installation location of Pro/ENGINEER® Wildfire® 5.0 in the dialog that is displayed when you install Autodesk Moldflow Adviser.

---

## Importing geometry from Pro/ENGINEER® Wildfire® 5.0

You can export geometry from Pro/ENGINEER® Wildfire® 5.0 so that it can be used in Autodesk Moldflow Adviser.

### Setting up Pro/ENGINEER® Wildfire® 5.0 for exporting files

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**NOTE:** If Pro/ENGINEER® Wildfire® 5.0 can not be automatically located by Autodesk Moldflow Adviser during installation, select the installation location of Pro/ENGINEER® Wildfire® 5.0 in the dialog that is displayed when you install Autodesk Moldflow Adviser.

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- 1 Open Pro/ENGINEER® Wildfire® 5.0.
- 2 Ensure the Autodesk Moldflow Adviser third party component is running. If it is not running, follow the steps below.
  - a Select **Tools > Auxiliary Applications**.  
The Auxiliary Applications dialog is displayed.
  - b Select **Autodesk Moldflow Adviser** from the applications list.
  - c Select **Start**.
  - d Select **Close**.
- 3 Ensure the Autodesk Moldflow Adviser menu items and toolbar button are visible. If they are not visible, follow the steps below.
  - a Right click any toolbar and select **Command....**

The **Customize** dialog is displayed.

- b Select the **Commands** tab.
  - c Select **Foreign applications** in the Categories list.
  - d Drag **Autodesk Moldflow Adviser** from the Command list and drop it on any toolbar to insert the toolbar button.
  - e Drag **Autodesk Moldflow Adviser** from the Command list to the **Applications** menu. Drop the item into the opened **Applications** menu.
  - f Select **OK**.
- 4 Open a model or create a new one.
- 5 Select **Applications > Autodesk Moldflow Adviser** or select the **Autodesk Moldflow Adviser** toolbar button.
- Autodesk Moldflow Adviser launches.

# Importing geometry from SolidWorks® 2010

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SolidWorks® 2010 is a 3D mechanical CAD program that runs on Microsoft Windows.

You can export geometry from SolidWorks® 2010 so that it can be used in Autodesk Moldflow Adviser.

## Importing geometry from SolidWorks® 2010

You can export geometry from SolidWorks® 2010 so that it can be used in Autodesk Moldflow Adviser.

### Setting up SolidWorks® 2010 for exporting files

- 1 Open SolidWorks® 2010.
- 2 Ensure the Autodesk Moldflow Adviser third party component is being used.
  - a Select **Tools > Add-ins**.  
The Auxiliary Applications dialog is displayed.
  - b Find **Autodesk** in the applications list and ensure the check box next to it is selected.
  - c Select **OK**.
- 3 Ensure the Autodesk Moldflow Adviser menu items and toolbar button are visible.
  - a Right click any toolbar and select **Customize**.  
The **Customize** dialog is displayed.
  - b Select the **Menus** tab.
  - c Select **Autodesk** in the Categories list.
  - d Select **Moldflow Adviser** in the Command list, then select **Add**.  

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**NOTE:** **Add** will only be available if the Autodesk menu is not visible.

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  - e Select **OK**.
  - f Right click on any toolbar and select **Autodesk** from the menu.  
The Autodesk Moldflow toolbar is displayed.
- 4 Open a model or create a new one.

- 5 Select **Autodesk > Moldflow Adviser** or select the **Autodesk Moldflow Adviser** toolbar button.

Autodesk Moldflow Adviser launches.