

# **STL Import for Solid Edge Help**

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# STL Import for Solid Edge Help

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Welcome to *STL Import for Solid Edge* Help!

This help file provides all the information you need to understand and use *STL Import for Solid Edge*. Click the links below or use the Contents tab on the left to browse help topics. You can also scroll the topics on the above right hand pane.

The *STL Import for Solid Edge* help file is divided into the following sections:

- [Introduction](#) - Introduction to *STL Import for Solid Edge*.
- [Command Reference](#) - Quick reference of all the commands added by *STL Import for Solid Edge*.
- [Tutorial](#) - Tutorial to get you started in the shortest possible time.

If you need any additional information please [contact](#) SYCODE.

**Note:**

- If you have trouble loading the *STL Import for Solid Edge* add-in file into the Solid Edge environment, please refer to the [ReadMe](#) file.
- Please read the [License Agreement](#) before using the software.

# Introduction

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*STL Import for Solid Edge* is a Stereolithography (.stl) file import add-in for Solid Edge®. This plug-in gives Solid Edge the ability to import geometric data from ASCII and Binary STL files.

*STL Import for Solid Edge* reads polygon mesh data stored in STL files and imports it into Solid Edge. A polygon mesh in a STL file is comprised of a set of triangular faces. *STL Import for Solid Edge* creates trimmed planar surfaces for each triangle/quad and knits them together to create a body. If the polygon mesh is closed (i.e. it does not contain boundary edges) then *STL Import for Solid Edge* will create a closed body feature, otherwise an open surface will be created.

*STL Import for Solid Edge* is very easy to use. Once installed, it automatically loads itself into Solid Edge and adds a new submenu called "STL Import for Solid Edge" to the Solid Edge Applications menu.

*STL Import for Solid Edge* comes with detailed documentation as well as a [tutorial](#) to get you started in the shortest possible time.

If you need any additional information please [contact](#) SYCODE.

## **The STL File Format**

The STL file format is the Rapid Prototyping industry's standard data transmission format and is the format required to interact with stereolithography machines. Stereolithography files contain solids which are made up of 3 sided facets. STL files may be ASCII or binary data, although binary is far more common due to the resulting size of the CAD data when saved to the ASCII format. A STL file describes a raw unstructured triangulated surface by the unit normal and vertices (ordered by the right-hand rule) of the triangles using a three-dimensional Cartesian coordinate system. Many CAD systems are able to output the STL file format among their other formats, but very few have the ability to import STL files.

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## ReadMe

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This is an *STL Import for Solid Edge* ReadMe file.

STL Import for Solid Edge is an add-in for Solid Edge

### Installation:

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The installer adds STL Import for Solid Edge to the list of available add-ins installed for Solid Edge. To verify whether STL Import for Solid Edge has been properly loaded into Solid Edge invoke the "Add-In Manager" by clicking on the "Applications" menu, then "Add-Ins" and finally "Add-In Manager". Verify that "STL Import for Solid Edge" is present in the list of "Available Add-Ins" and make sure that its check box is checked.

Now STL Import for Solid Edge is ready for use.

### Usage:

=====

STL Import for Solid Edge adds new commands to Solid Edge. It also adds a submenu to the Solid Edge menu called "STL Import for Solid Edge" containing these new commands. This submenu is located in the Applications -> Add-Ins submenu. Simply click on the menu items in this sub menu to run these new commands.

The new commands are:

- 1) Import - Imports a STL file
- 2) Help - Display the STL Import for Solid Edge help file
- 3) Register - Display the STL Import for Solid Edge product registration dialog box
- 4) About - Display the STL Import for Solid Edge about box

Note: The "STL Import for Solid Edge" submenu is available only when a document (part, assembly, etc.) is open. This is due to the way Solid Edge is designed.

### Support:

=====

For support, please E-Mail [support@sycode.com](mailto:support@sycode.com)

## Contact

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Mailing address	S1/116, Nova Cidade Complex, NH 17, Alto Porvorim, Goa - 403521 India
Phone	+91 9822689298
Fax	+91 832 2416615
E-Mail	<a href="mailto:info@sycode.com">info@sycode.com</a>
Web Site	<a href="http://www.sycode.com">http://www.sycode.com</a>

# Command Reference

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*STL Import for Solid Edge* adds new commands to Solid Edge. It also adds a submenu to the Solid Edge menu called "STL Import for Solid Edge" containing these new commands. This submenu is located in the Applications -> Add-Ins submenu. Simply click on the menu items in this sub menu to run these new commands.

The new commands are:

<a href="#">Import</a>	Imports a STL file
<a href="#">Help</a>	Displays the <i>STL Import for Solid Edge</i> help file
<a href="#">Register</a>	Displays the <i>STL Import for Solid Edge</i> product registration dialog box
<a href="#">About</a>	Displays the <i>STL Import for Solid Edge</i> about box

**Note:**

- The "STL Import for Solid Edge" submenu is available only when a document (part, assembly, etc.) is open. This is due to the way Solid Edge is designed.

## Import

---

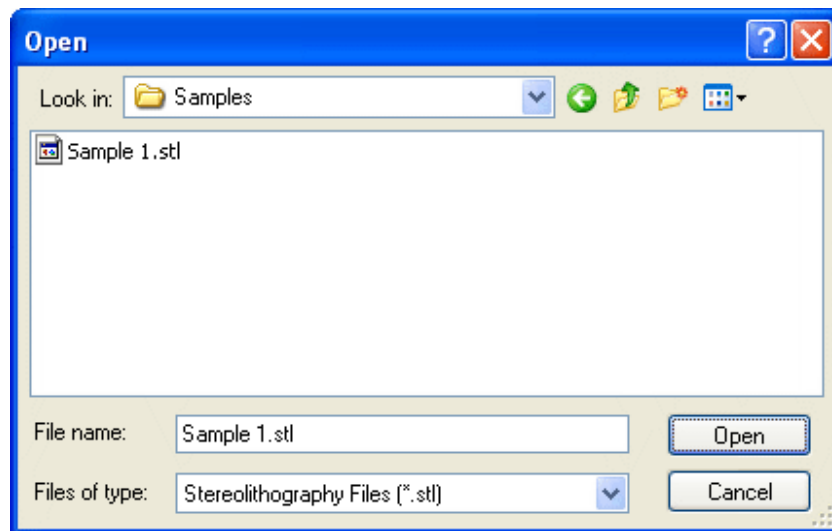
**Menu Button**      Applications > Add-Ins > STL Import for Solid Edge > Import

---

The Import command imports an STL file.

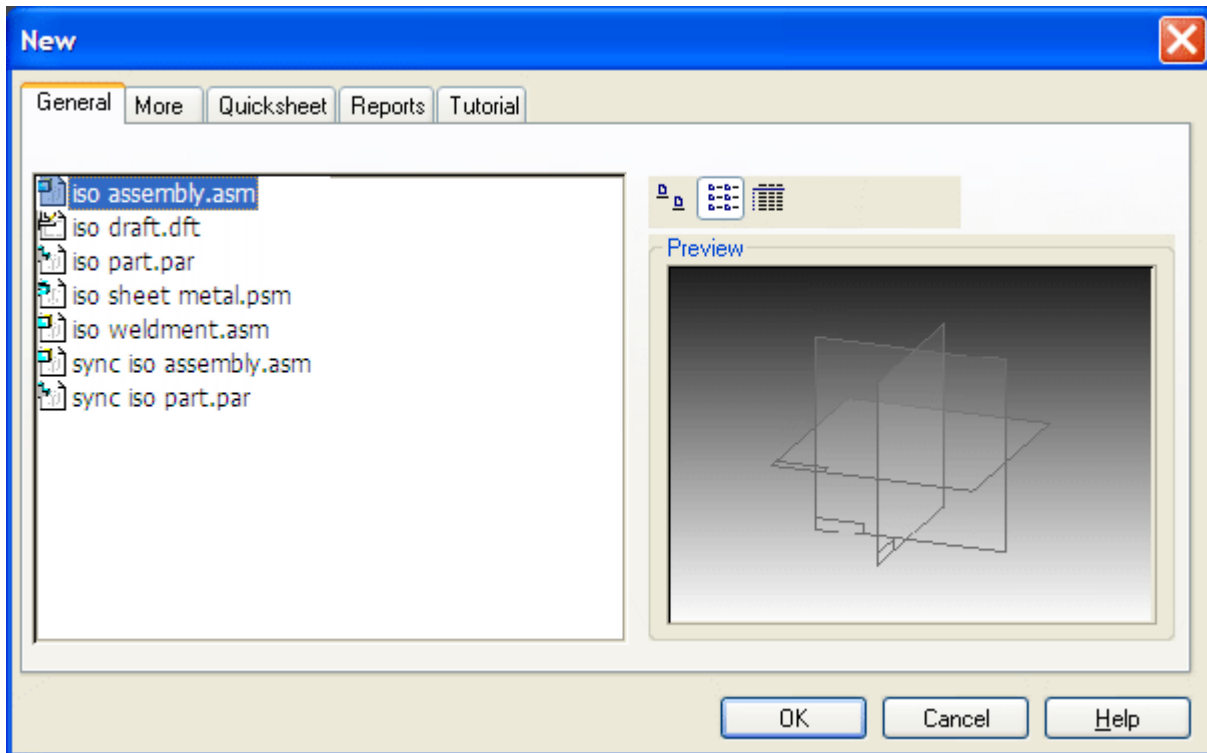
### To Import an STL file

1. Select Import from the "STL Import for Solid Edge" submenu.
2. You will be presented with a "Open" dialog box. Select the STL file you wish to import and click "Open".



3. The STL file you selected will be processed. You will then be presented with the Solid Edge "New" dialog box. Select the appropriate kind of document you wish to create. It is recommended to select a Part or Assembly since other types (such as Draft) do not support 3D objects.

## STL Import for Solid Edge Help



A new document of the type you selected in Step 3 will be created and the STL file will be imported into it.

## Help

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**Menu Button**      Applications > Add-Ins > STL Import for Solid Edge > Help

---

This command displays the help file. The [Welcome](#) page is a good place to start.

## Register

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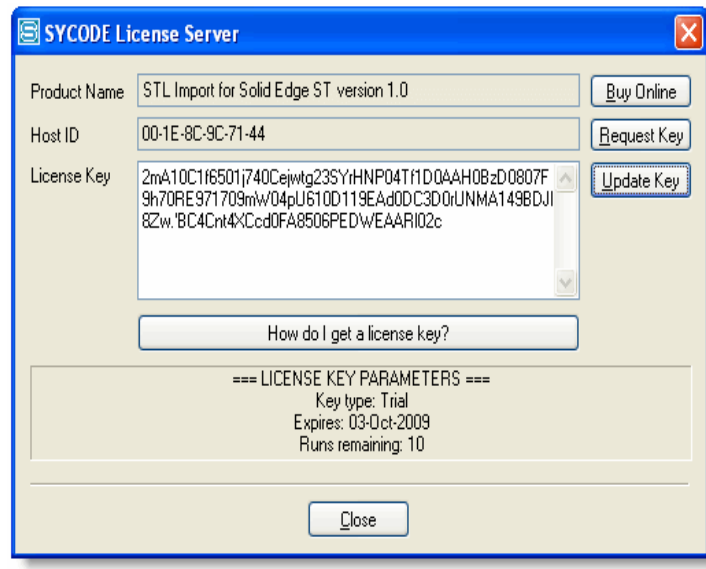
**Menu Button**      Applications > Add-Ins > STL Import for Solid Edge > Register

---

This is used to register your copy of *STL Import for Solid Edge*.

The dialog box contains the product name (including version) and lock number. During the trial period this dialog box will be displayed every time you run the command. You can click the "Continue Trial" button to close the dialog box and continue evaluating the software. After the trial period ends, you will have to enter the key to continue working.

The Product Registration dialog box is shown below.



**Note:**

- To avoid disruption in your work-flow we urge you to place your order before the trial period ends.

## About

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**Menu Button**      Applications > Add-Ins > STL Import for Solid Edge > About

---

This command displays the *STL Import for Solid Edge* About box. The About box lists the software version and name of the person and company the software is licensed to.

The software version has three parts: major version, minor version and build number (in the form #.#.#). In the About box shown below the version is 1.0, which translates as major version = 1, minor version = 0. There is no build number.



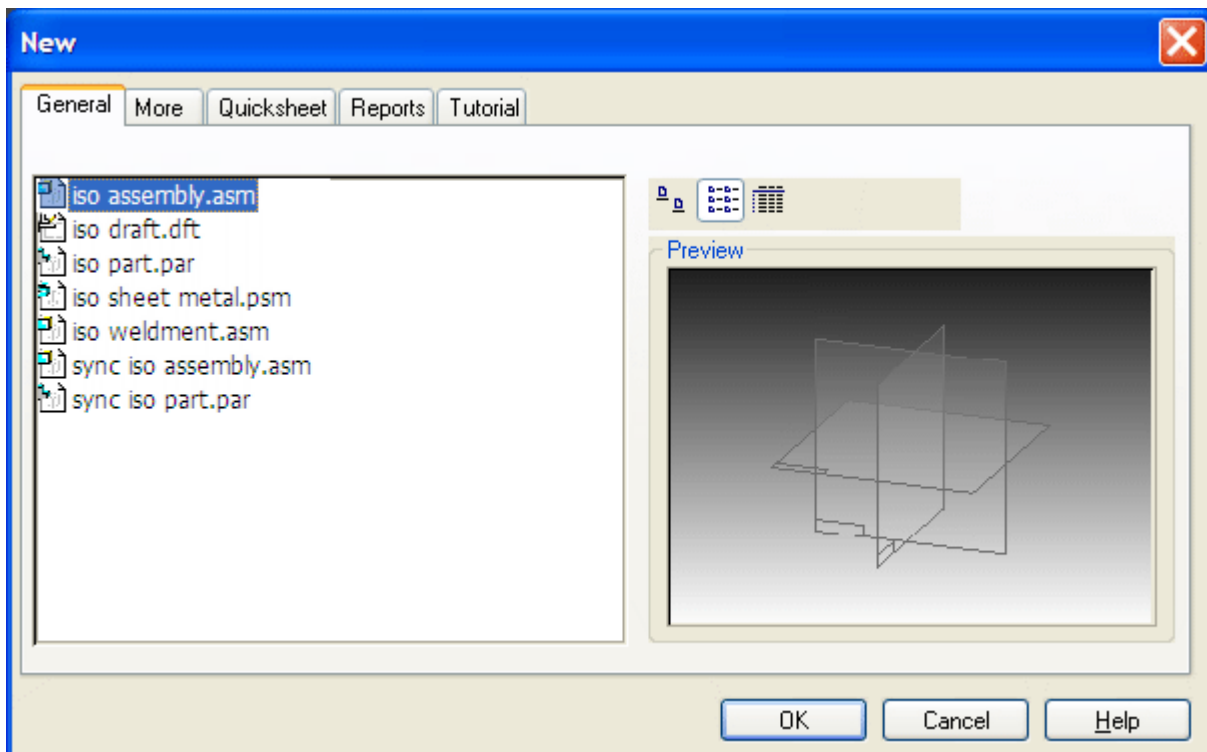
# Tutorial

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This tutorial provides the necessary information and hands-on experience to help you get started with an *STL Import for Solid Edge*.

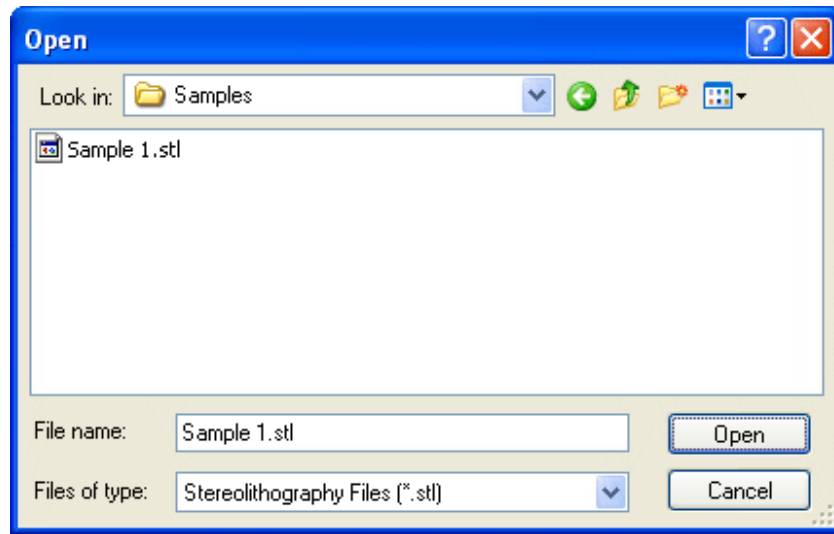
**Step 1:** Start Solid Edge (if you haven't already).

**Step 2:** If you already have a document opened skip to step 3. Otherwise select "New" from the "File" menu. You will be presented with the "New" dialog box. Select any type of document and Click "OK". This is because the "STL Import for Solid Edge" submenu is displayed only if there is a document currently opened in Solid Edge". So in this case, an empty document will do.

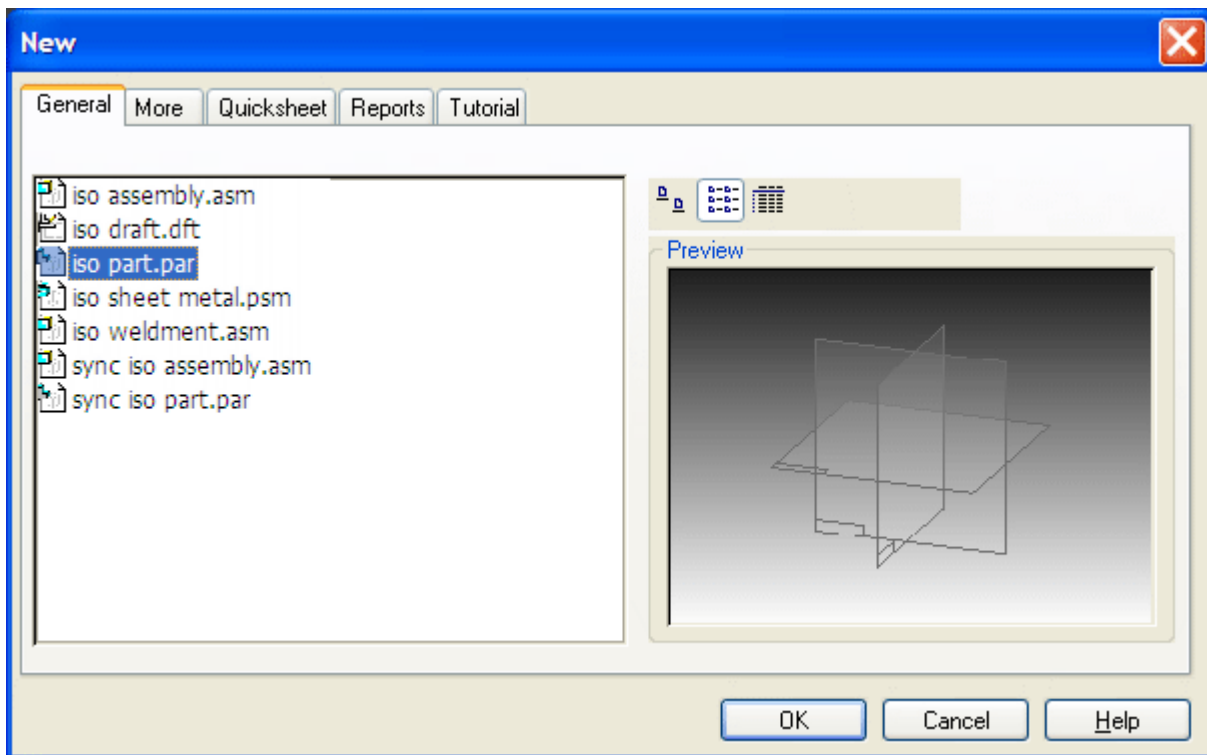


**Step 3:** Run the Import command (Applications >> Add-Ins >> STL Import for Solid Edge >> Import).

**Step 4:** The "Open" dialog box is displayed. Select C:\Program Files\SYCODE\STL Import for Solid Edge\Samples\Sample 1.stl.



**Step 5:** The Solid Edge "New" dialog box is displayed. Select any ".par" file and click "OK".



The STL file is imported into a new part document

STL Import for Solid Edge Help

