

# **VTK Import for Solid Edge Help**

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# VTK Import for Solid Edge Help

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Welcome to *VTK Import for Solid Edge* Help!

This help file provides all the information you need to understand and use *VTK 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 *VTK Import for Solid Edge* help file is divided into the following sections:

- [Introduction](#) - Introduction to *VTK Import for Solid Edge*.
- [Command Reference](#) - Quick reference of all the commands added by *VTK 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:**

- Please refer to the section "Loading Instructions" in the [ReadMe](#) file to load *VTK Import for Solid Edge* add-in file into the Solid Edge environment.
- Please read the [License Agreement](#) before using the software.

# Introduction

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*VTK Import for Solid Edge* is a Visualization Toolkit (.vtk) file import add-in for Solid Edge®. This add-in gives Solid Edge the ability to import geometric data from ASCII and Binary VTK files.

*VTK Import for Solid Edge* reads polygon mesh data stored in VTK files and imports it into Solid Edge. A polygon mesh in a VTK file is comprised of a set of triangular or quad faces. *VTK 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 *VTK Import for Solid Edge* will create a closed body feature, otherwise an open surface will be created.

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

*VTK 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 VTK File Format**

The Visualization ToolKit (VTK) is an open source, freely available software system for 3D computer graphics, image processing, and visualization used by thousands of researchers and developers around the world. VTK consists of a C++ class library, and several interpreted interface layers including Tcl/Tk, Java, and Python. The Toolkit stores geometric data in a file format known as VTK. Very few CAD applications have the ability to read and write VTK files.

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## ReadMe

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This is the *VTK Import for Solid Edge* ReadMe file.

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

Installation:

=====

The installer adds VTK Import for Solid Edge to the list of available add-ins installed for Solid Edge. To verify whether VTK 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 "VTK Import for Solid Edge" is present in the list of "Available Add-Ins" and make sure that its check box is checked.

If "VTK Import for Solid Edge" cannot be found in the list of "Available Add-ins", then you will have to manually load the add-in into the Solid Edge environment. This can be done by closing all Solid Edge sessions and clicking the "Manually Load Add-in" shortcut placed in the Start Menu (Start -> Programs -> SYCODE -> VTK Import for Solid Edge -> Manually Load Add-in").

Now VTK Import for Solid Edge is ready for use.

Usage:

=====

VTK Import for Solid Edge adds new commands to Solid Edge. It also adds a submenu to the Solid Edge menu called "VTK 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 VTK file
- 2) Help - Display the VTK Import for Solid Edge help file
- 3) Register - Display the VTK Import for Solid Edge product registration dialog box
- 4) About - Display the VTK Import for Solid Edge about box

Note: The "VTK 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

## Contact

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|                 |  |
|-----------------|--|
| Mailing address | S1/116, Nova Cidade Complex,<br>NH 17, Alto Porvorim,<br>Goa - 403521<br>India |
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| 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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*VTK Import for Solid Edge* adds new commands to Solid Edge. It also adds a submenu to the Solid Edge menu called "VTK Import for Solid Edge" containing these new commands. This submenu is located in the Add-Ins submenu. Simply click on the menu items in this submenu to run these new commands.

|                          |   |
|--------------------------|---|
| <a href="#">Import</a>   | Imports a VTK file                                      |
| <a href="#">Help</a>     | Displays the <i>VTK Import for Solid Edge</i> help file |
| <a href="#">Register</a> | Registers your copy of <i>VTK Import for Solid Edge</i> |
| <a href="#">About</a>    | Displays the <i>VTK Import for Solid Edge</i> about box |

## Import

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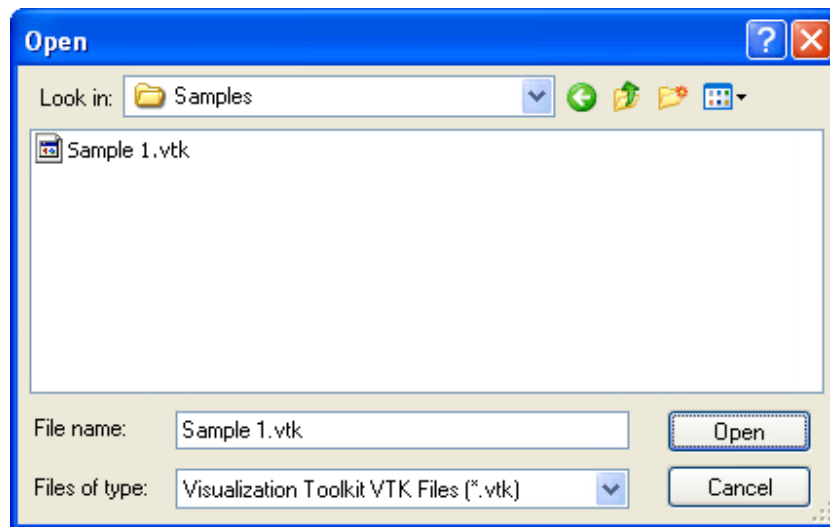
**Menu Button**      Add Ins > VTK Import for Solid Edge > Import

---

This command imports geometric data from ASCII and Binary VTK files into Solid Edge

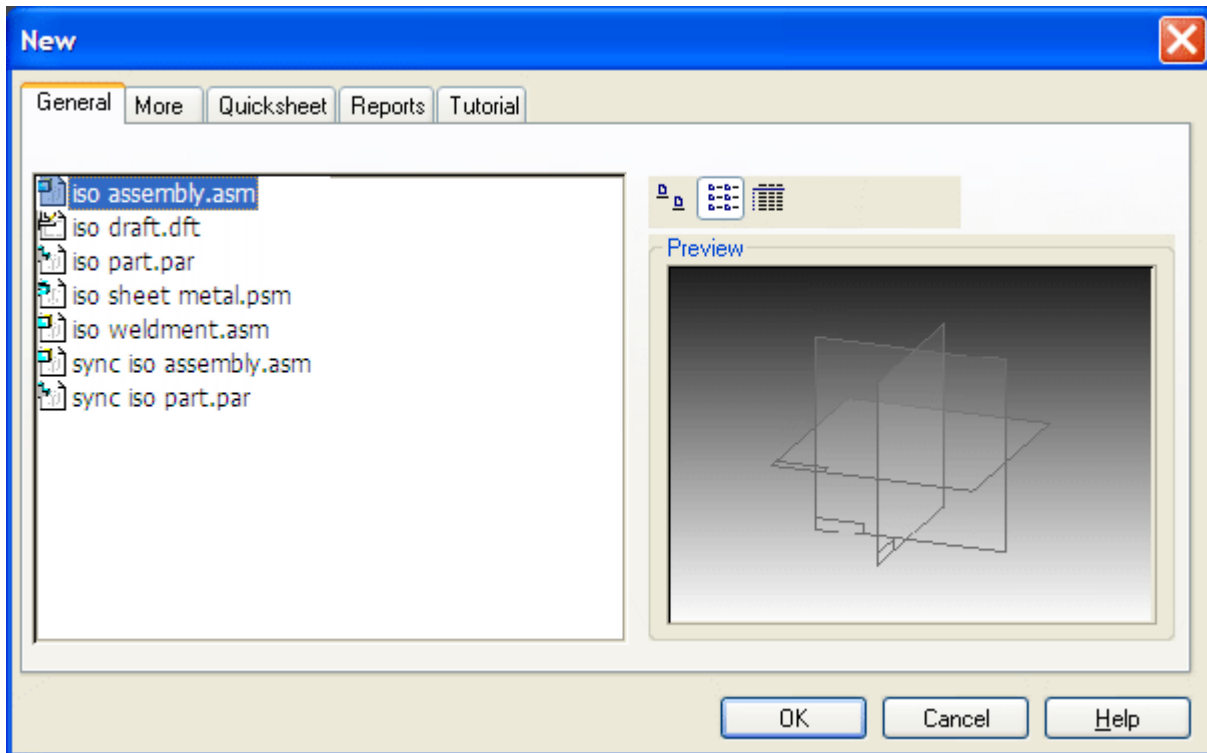
### To import a VTK file

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



3. The VTK 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.

## VTK Import for Solid Edge Help



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

## Help

---

|                    |  |
|--------------------|--|
| <b>Menu Button</b> | Add Ins > VTK Import for Solid Edge > Help |
|--------------------|--|

---

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

## Register

---

### Menu Button

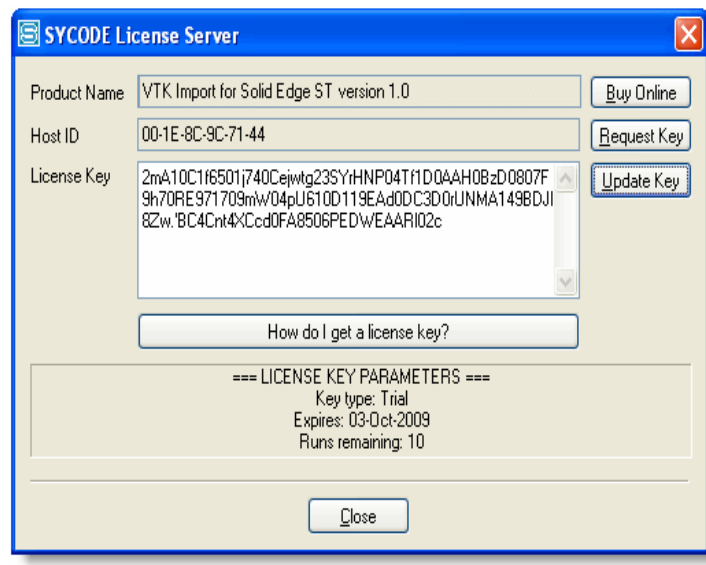
Add Ins > VTK Import for Solid Edge > Register

---

This command is used to register your copy of *VTK 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

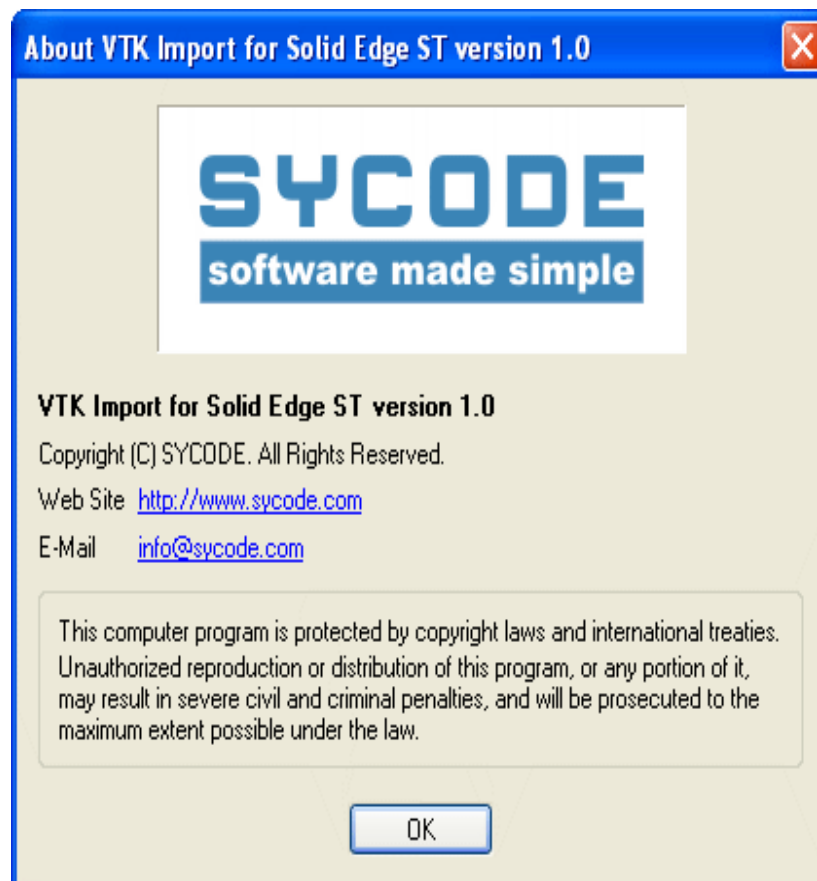
---

**Menu Button**                    Add Ins > VTK Import for Solid Edge > About

---

This command displays the *VTK 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.



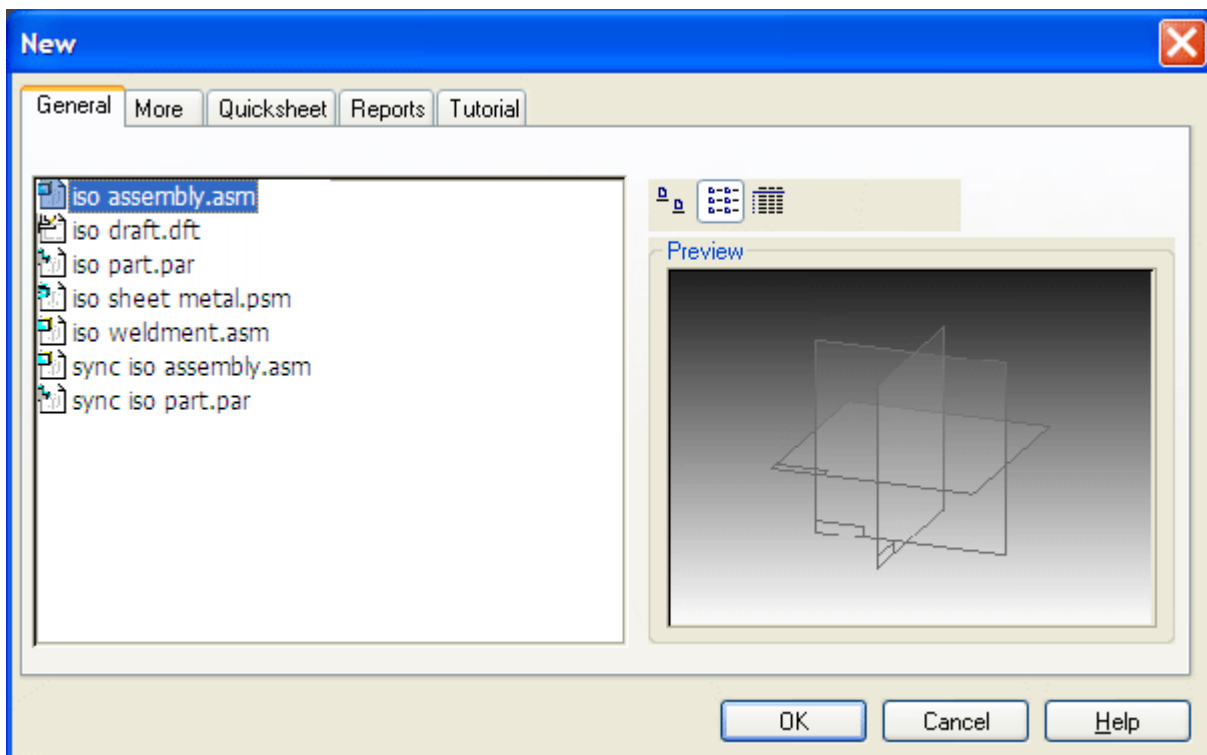
# Tutorial

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

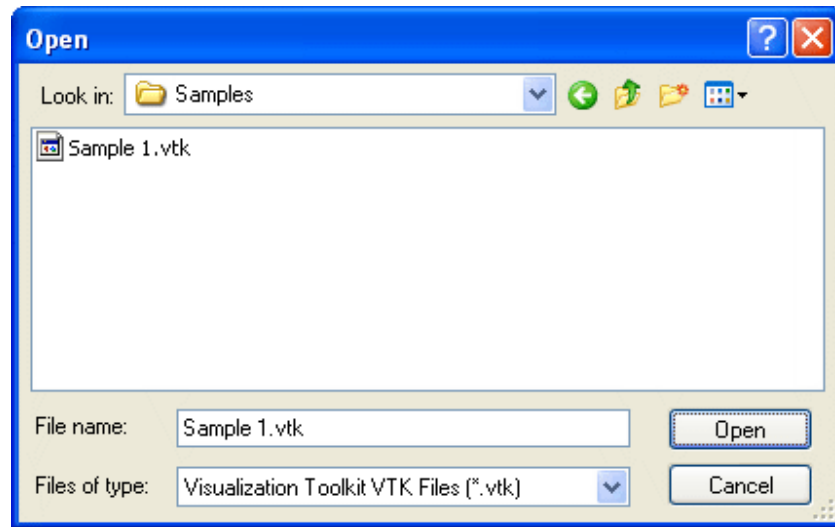
**Step 1:** Start Solid Edge (if you haven't already).

**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 "VTK 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.

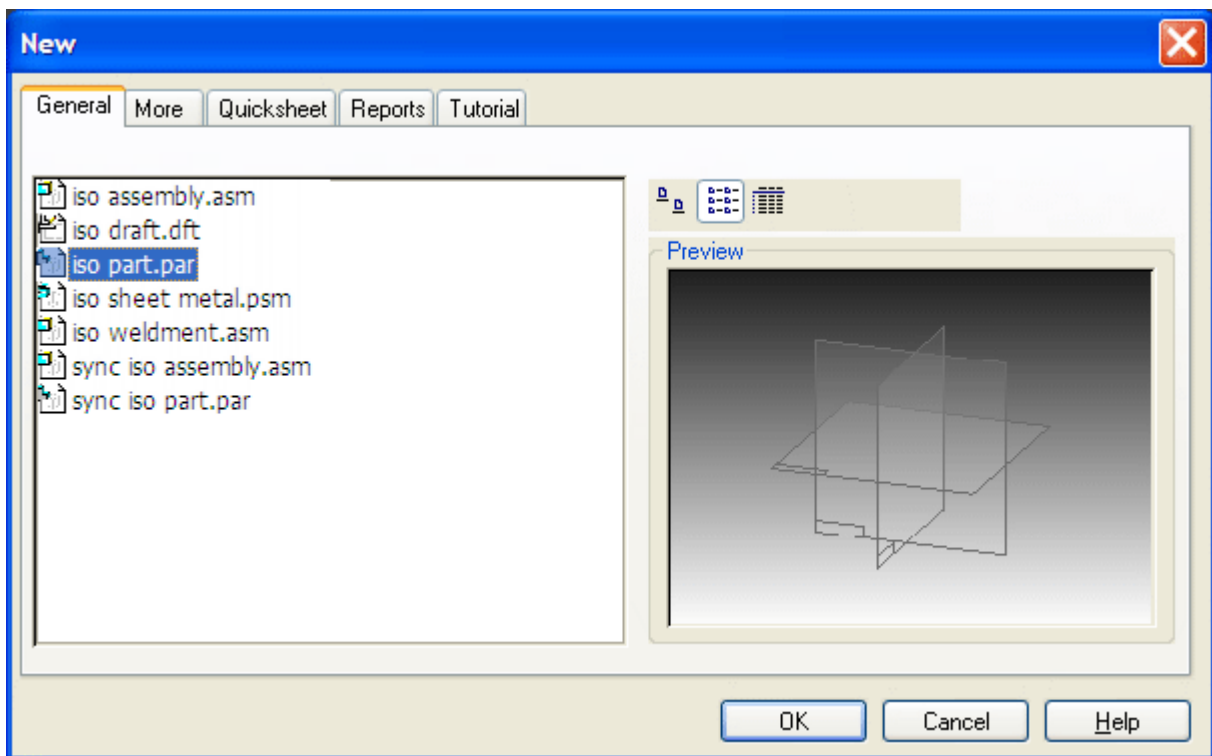


**Step 3:** Run the *Import* command (Add Ins >> VTK Import for Solid Edge >> Import).

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



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



The VTK file is imported into a new part document

