

# **VTK Export for Inventor Help**

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## Table Of Contents

VTK Export for Inventor Help .....	1
Introduction .....	2
License Agreement .....	3
Contact.....	11
Command Reference .....	12
Export.....	13
Help.....	14
Register.....	15
About.....	17
Tutorial .....	18
Tutorial.....	18

# VTK Export for Inventor Help

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Welcome to *VTK Export for Inventor* Help!

This help file provides all the information you need to understand and use *VTK Export for Inventor*. 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 Export for Inventor* help file is divided into the following sections:

- [Introduction](#) - Introduction to *VTK Export for Inventor*.
- [Command Reference](#) - Quick reference of all the commands added by *VTK Export for Inventor*.
- [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 *VTK Export for Inventor* add-in file into the Inventor environment, please refer to the [ReadMe](#) file.
- Please read the [License Agreement](#) before using the software.

# Introduction

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*VTK Export for Inventor* is a Visualization Toolkit VTK file export add-in for Inventor. This add-in gives Inventor the ability to export geometric data from Inventor to ASCII and Binary VTK files.

*VTK Export for Inventor* tessellates solid bodies in a Inventor document into a set of triangular meshes. These meshes are then exported to a VTK file as mesh objects. The VTK file can then be imported into a variety of CAD applications.

*VTK Export for Inventor* is designed to work with the following versions of Inventor:

- Inventor 2011
- Inventor 2010
- Inventor 2009
- Inventor 2008
- Inventor 11
- Inventor 10
- Inventor 9

*VTK Import for Inventor* is very easy to use. Once installed, it automatically loads itself into Inventor and adds a new ribbon bar to the Inventor user interface called "Add-Ins" containing the newly added commands.

*VTK Export for Inventor* 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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## VTK Export for Inventor Help

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This is the *VTK Export for Inventor* ReadMe file.

VTK Export for Inventor is an add-in for Inventor

### Installation:

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The installer adds VTK Export for Inventor to the list of available add-ins installed for Inventor. To verify whether VTK Export for Inventor has been properly loaded into Inventor invoke the "Add-In Manager" by clicking on the "Tools" menu and then. Verify that "VTK Export for Inventor" is present in the list of "Available Add-Ins" and make sure that "Loaded/Unloaded" and "Load on Startup" check boxes are checked.

Now VTK Export for Inventor is ready for use.

### Usage:

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VTK Export for Inventor adds new commands to Inventor. It also adds a ribbon bar to the Inventor user interface called "Add-Ins" containing these new commands. Simply click on the buttons in the ribbon bar to run these new commands.

The new commands are:

- 1) Export - Exports a VTK file
- 2) Help - Display the VTK Export for Inventor help file
- 3) Register - Display the VTK Export for Inventor product registration dialog box
- 4) About - Display the VTK Export for Inventor about box

### 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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*VTK Export for Inventor* adds a new menu to Inventor. It also adds a ribbon bar to Inventor called "Add-Ins" containing these new commands.

<a href="#">Export</a>	Export to a VTK file
<a href="#">Help</a>	Displays the <i>VTK Export for Inventor</i> help file
<a href="#">Register</a>	Register your copy of <i>VTK Export for Inventor</i>
<a href="#">About</a>	Displays the <i>VTK Export for Inventor</i> about box

## Export

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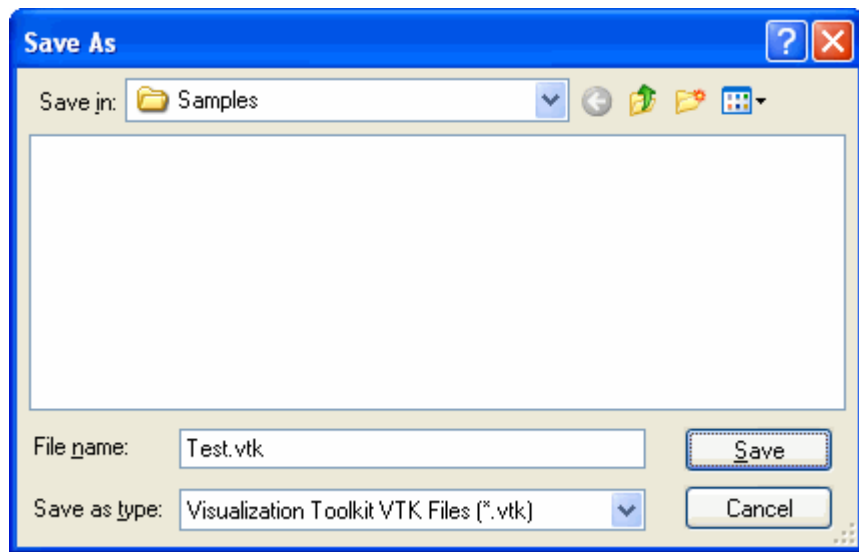
**Menu Button** Add-Ins > Export

---

This command tessellates a part or assembly and exports the resulting meshes to mesh objects to a VTK file.

### To export a VTK file

1. Click the *Export* button on the "Add-Ins" ribbon bar.
2. The Inventor "Save As" dialog box is displayed. Enter the output file name of a VTK file and click *Save*.



3. The "VTK Export for Inventor Options" dialog box is displayed. Select the options as required and click *Ok*.

## Help

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**Menu Button** Add-Ins > Help

---

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

## Register

**Menu Button** Add-Ins > Register

This command is used to register your copy of *VTK Export for Inventor*.

You need a license key to start using the software. A license key can be of two types: Trial or Permanent. A trial key is issued to you instantly and completely free of cost so that you may try the software before you purchase a license. A permanent key is issued after you have purchased a license.

SYCODE License Server

Product Name: VTK Export for Inventor 2010 version 1.0

Host ID: 00-1E-8C-9C-71-44

License Key: xUAb5Cqw\*1p9901ygnkB;X040459B10AAJL;'a6m009gCd20a9  
41717ASERT24578ERX04Y680p18fdgdvdgBBE.o9FCAB#+(!0  
A14Y1FGF3CP8CmtB9CGs4703DD266V60,a6E8AE0g8V

Buttons: Buy Online, Request Key, Update Key

How do I get a license key?

=== LICENSE KEY PARAMETERS ===

Key type: Trial  
Expires: 13-Sep-2009  
Runs remaining: 7

Close

### How do I get a Trial Key?

Simply click the 'Request Key' button and select 'TRIAL KEY' as the type of key being requested. Fill the form and submit it. A trial key will be immediately sent to you by email.

### How do I get a Permanent Key?

To get a permanent key you need to have already purchased a license. If you have not yet purchased a license you can do so by clicking the 'Buy Online' button. After you place your order click the 'Request Key' button and select 'PERMANENT KEY' as the type of key being requested. Fill the form and submit it. Your order will be verified and a permanent key will be sent to you by email within one business day.

### IMPORTANT:

- (1) Please ensure that your computer is connected to the internet before you request for a key.
- (2) Please be sure to enter a valid email address as the key will be sent to you by email.

## VTK Export for Inventor Help

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

If you need anything else please send an email to [register@sycode.com](mailto:register@sycode.com)

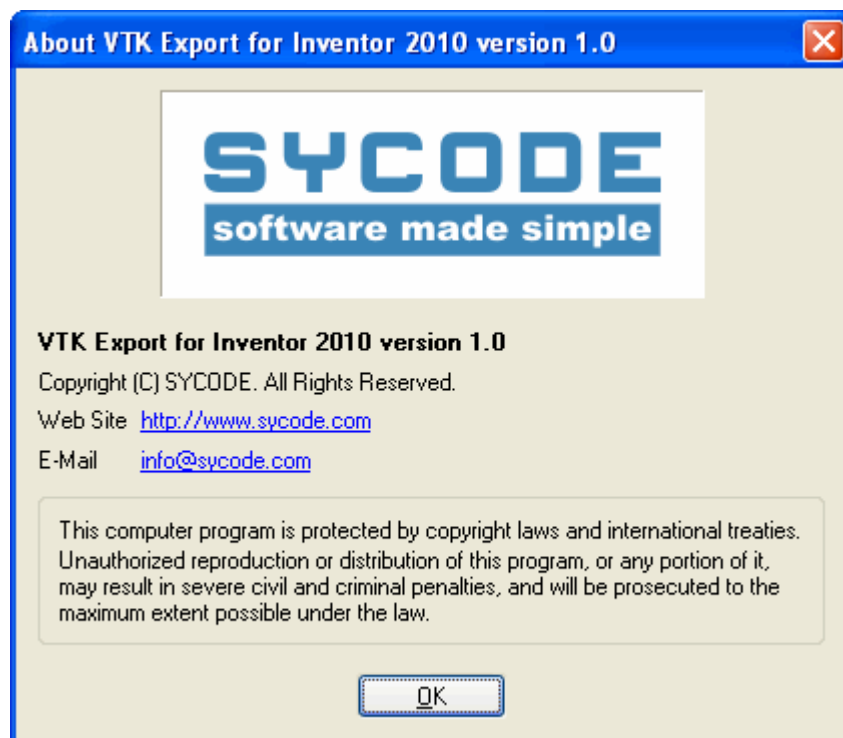
## About

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**Menu Button** Add-Ins > About

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This command is used to display the *VTK Export for Inventor* About box. The About box lists the software and its version.



# Tutorial

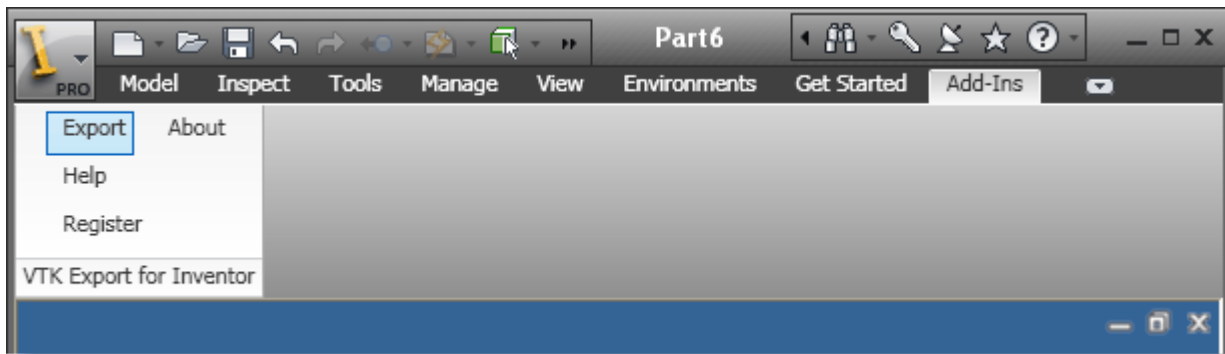
## Tutorial

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

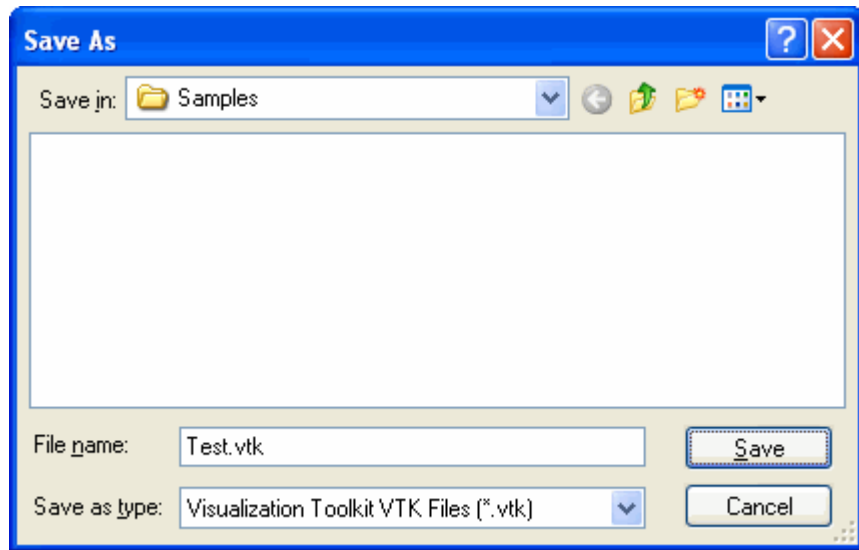
**Step 1:** Start Inventor.

**Step 2:** Select "Open" from the Inventor "File" menu. Browse for the file typically located at "C:\Program Files\SYCODE\VTK Export for Inventor\Samples\Piston.sat".

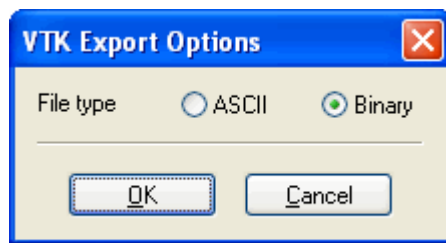
**Step 3:** Click the *Export* button on the "Add-Ins" ribbon bar.



**Step 4:** The Inventor "Save As" dialog box is displayed. Enter a name for the VTK file and click *Save*.



**Step 5:** The "VTK Export for Inventor Options" dialog box is displayed. Select the options as required and click *Ok*.



The VTK file will be created in the location you specified.