

# **STEP Export for AutoCAD Help**

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# STEP Export for AutoCAD Help

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Welcome to *STEP Export for AutoCAD* Help!

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

- [Introduction](#) - Introduction to *STEP Export for AutoCAD*.
- [Command Reference](#) - Quick reference of all the commands added by *STEP Export for AutoCAD*.
- [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 *STEP Export for AutoCAD* plug-in file into the AutoCAD environment.
- Please read the [License Agreement](#) before using the software.

# Introduction

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*STEP Export for AutoCAD* is a STEP file export plug-in for AutoCAD. This plug-in gives AutoCAD the ability to export 3D solid objects in AutoCAD to a STEP file.

STEP is a neutral file format which is widely used to exchange data between various CAD systems. *STEP Export for AutoCAD* reads 3D solid objects from the active AutoCAD drawing and exports them to a 3D STEP file which can then be imported into other CAD systems.

*STEP Export for AutoCAD* is powered by the widely used 3D InterOp technology from Spatial. 3D InterOp is the industry standard for proprietary and neutral CAD file format data exchange and is used in almost all the major CAD systems. Besides data exchange 3D InterOp also offers powerful repairing and healing features which are extensively used in *STEP Export for AutoCAD*. Repairing involves checking the file for corrupted data and fixing the invalid data. Healing corrects the differences in precision. *STEP Export for AutoCAD* also creates a detailed log file which is extremely useful in identifying data translation problems and aids in locating and fixing errors.

*STEP Export for AutoCAD* can write STEP AP203 and AP214 (Geometry Only).

*STEP Export for AutoCAD* is designed to work with the following versions of AutoCAD:

- AutoCAD 2011 (32 & 64 Bit)
- AutoCAD 2010 (32 & 64 Bit)
- AutoCAD 2009 (32 & 64 Bit)
- AutoCAD 2008 (32 & 64 Bit)
- AutoCAD 2007
- AutoCAD 2006
- AutoCAD 2005
- AutoCAD 2004
- AutoCAD 2002
- AutoCAD 2000i
- AutoCAD

2000

*STEP Export for AutoCAD* is very easy to use. Once installed, it must be loaded into the AutoCAD environment. There are simple instructions for this in the [ReadMe](#) file. Once loaded it adds new commands to AutoCAD's existing commands and a new submenu called "STEPExport" to the AutoCAD menu containing these newly added commands.

*STEP Export for AutoCAD* 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 STEP File Format**

ISO 10303 is an ISO standard for the computer-interpretable representation and exchange of industrial product data. Its official title is Industrial automation systems and integration - Product data representation and exchange, and it is also known as STEP or the Standard for the Exchange of Product model data. The standard's objective is to provide a mechanism that is capable of describing product data throughout the life cycle of a product, independent from any particular system. The nature of this description makes it suitable not only for neutral file exchange, but also as a basis for implementing and sharing product databases and archiving.

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This is the *STEP Export for AutoCAD* ReadMe file.

Thank you for installing STEP Export for AutoCAD.

Please read this ReadMe document carefully and completely. It contains important information which is vital to the proper working of STEP Export for AutoCAD.

Loading Instructions:

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Since STEP Export for AutoCAD is a plug-in for AutoCAD, it has to be loaded into the AutoCAD environment before it can be used. Loading is a one time process. STEP Export for AutoCAD will automatically load itself into AutoCAD the next time you run AutoCAD.

The STEP Export for AutoCAD plug-in files are installed into the STEP Export for AutoCAD installation folder (typically "C:\Program Files\SYCODE\STEP Export for AutoCAD\"). The plug-in files have an extension of ".arx".

The list of plug-in files along with the version of AutoCAD is shown below. Please be sure to use the plug-in file that corresponds to your version of AutoCAD.

STEPExport_VC60.arx	-> AutoCAD 2000, 2000i, 2002
STEPExport_VC70.arx	-> AutoCAD 2004, 2005, 2006
STEPExport_VC80.arx	-> AutoCAD 2007, 2008 (32 Bit), 2009 (32 Bit)
STEPExport_VC80x64.arx	-> AutoCAD 2008 (64 Bit), 2009 (64 Bit)
STEPExport_VC90.arx	-> AutoCAD 2010 (32 Bit)
STEPExport_VC90x64.arx	-> AutoCAD 2010 (64 Bit)
STEPExport_VC90.arx	-> AutoCAD 2011 (32 Bit)
STEPExport_VC90x64.arx	-> AutoCAD 2011 (64 Bit)

To load STEP Export for AutoCAD into AutoCAD please follow the steps listed below:

- (1) Select "Load Application..." from "Tools" menu or enter the "\_APPROAD" command.
- (2) Click the "Contents" button in "Startup Suite"
- (3) Click the "Add" button.
- (4) Browse for the plug-in file for your version of AutoCAD (see list above).
- (5) Click the "Add" button on the Add File to Startup Suite dialog box.
- (6) Click the "Close" button to close the Startup Suite dialog box.
- (7) Click the "Close" button to close the Load/Unload Applications dialog box.

Now STEP Export for AutoCAD is completely installed and ready for use.

Usage:

=====

STEP Export for AutoCAD adds new commands to AutoCAD. The commands added are:

- 1) STEPExport - Exports a STEP file

## STEP Export for AutoCAD Help

- 2) STEPExportHelp - Displays the STEP Export for AutoCAD help file
- 3) STEPExportRegister - Registers your copy of STEP Export for AutoCAD
- 4) STEPExportAbout - Displays the STEP Export for AutoCAD about box

### Sample Files:

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Sample DWG files are copied into the Samples folder which is located in the STEP Export for AutoCAD installation folder (typically "C:\Program Files\SYCODE\STEP Export for AutoCAD\"). You can try STEP Export for AutoCAD using these sample files.

### Support:

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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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*STEP Export for AutoCAD* adds new commands to AutoCAD and a submenu called "STEPExport" which houses them. The new commands are:

<a href="#">STEPExport</a>	Exports a STEP file
<a href="#">STEPExportHelp</a>	Displays the <i>STEP Export for AutoCAD</i> help file
<a href="#">STEPExportRegister</a>	Registers your copy of <i>STEP Export for AutoCAD</i>
<a href="#">STEPExportAbout</a>	Displays the <i>STEP Export for AutoCAD</i> about box

## STEPExport

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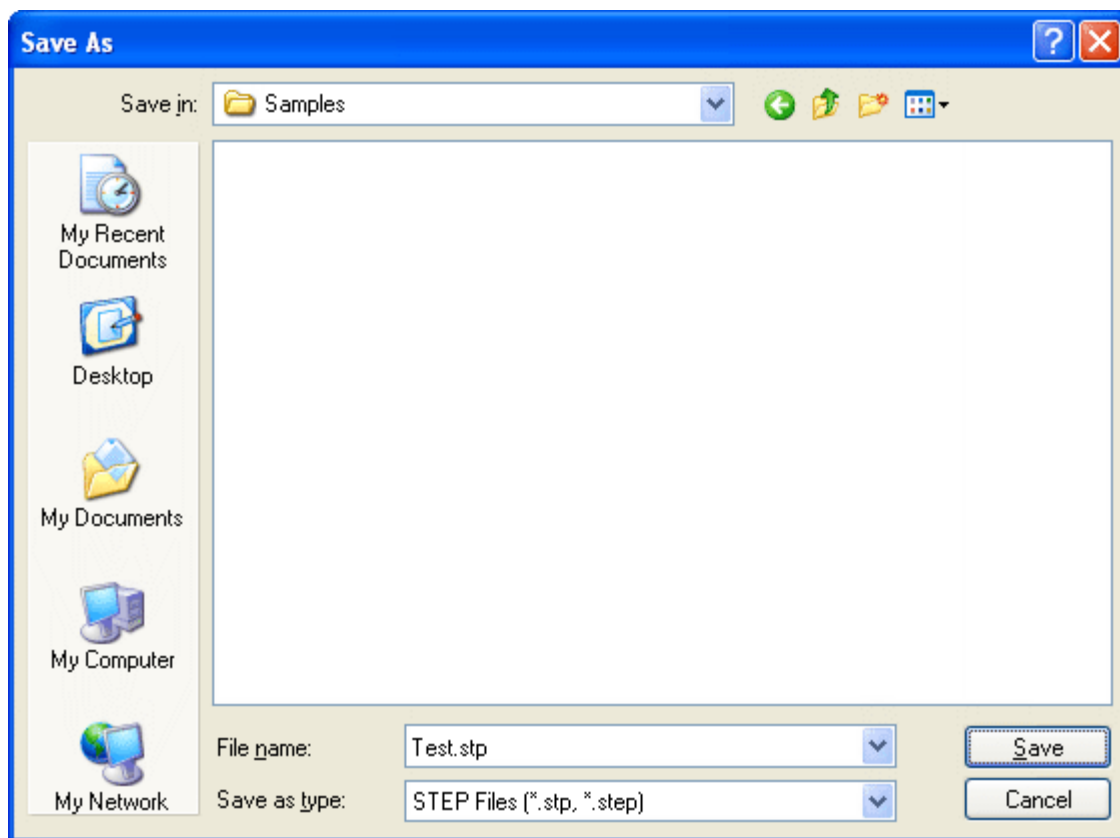
<b>Menu Button</b>	STEPExport > Export
<b>Command</b>	STEPExport

---

This command exports to a STEP files.

### To export a STEP file

1. Select *Export* from the "STEPExport" menu or type *STEPExport* at the AutoCAD command prompt and press *Enter*.
2. At the AutoCAD "Select objects" command prompt, select the objects that you wish to export. Press *Enter* when done.
3. The AutoCAD "Save As" dialog box is displayed. Enter the output file name of a STEP file and click *Save*.



4. The "STEP Export for AutoCAD Options" dialog box is displayed. Select the options as required and click *OK*.

## STEPExportHelp

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<b>Menu Button</b>	STEPExport > Help
<b>Command</b>	STEPExportHelp

---

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

## STEPExportRegister

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<b>Menu Button</b>	STEPExport > Register
<b>Command</b>	STEPExportRegister

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This command is used to register your copy of *STEP Export for AutoCAD*.

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.

The screenshot shows the SYCODE License Server dialog box. It has a title bar with the SYCODE logo and the text 'SYCODE License Server'. The main area contains three input fields: 'Product Name' with the value 'STEP Export for AutoCAD 2010 version 1.0', 'Host ID' with the value '00-1D-7D-FD-AD-1D', and 'License Key' with a long alphanumeric string. To the right of these fields are three buttons: 'Buy Online', 'Request Key', and 'Update Key'. Below the License Key field is a button labeled 'How do I get a license key?'. At the bottom of the dialog, there is a section titled '=== LICENSE KEY PARAMETERS ===' which displays the following information: 'Key type: Trial', 'Expires: 24-Nov-2009', and 'Runs remaining: 10'. A 'Close' button is located at the very bottom center of the dialog.

### 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.

## STEP Export for AutoCAD Help

- (2) Please be sure to enter a valid email address as the key will be sent to you by email.
- (2) 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)

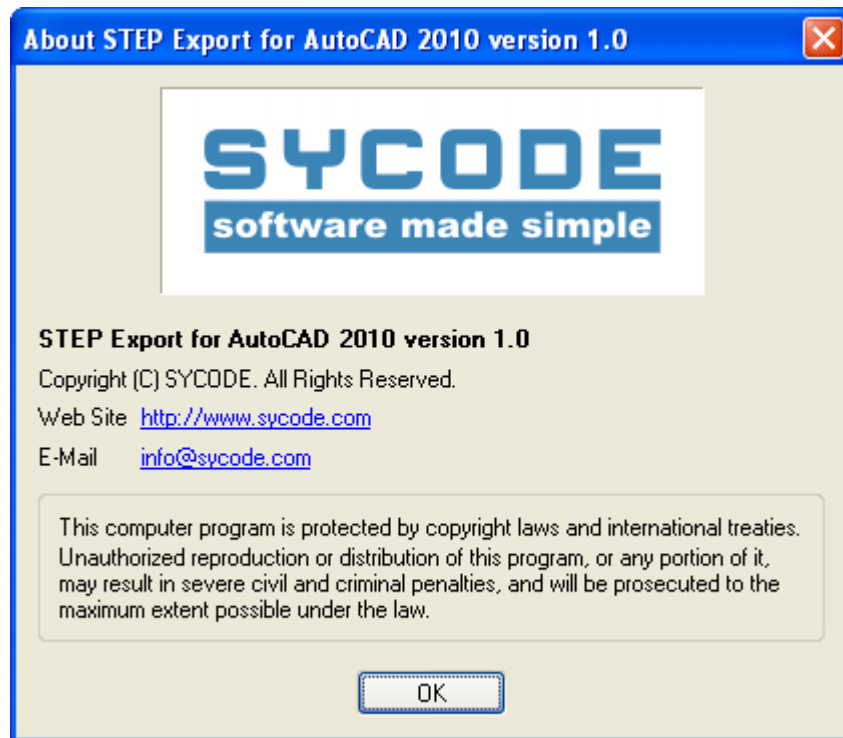
## STEPExportAbout

---

<b>Menu Button</b>	STEPExport > About
<b>Command</b>	STEPExportAbout

---

This command is used to display the *STEP Export for AutoCAD* About box. The About box lists the product and its version.



# Tutorial

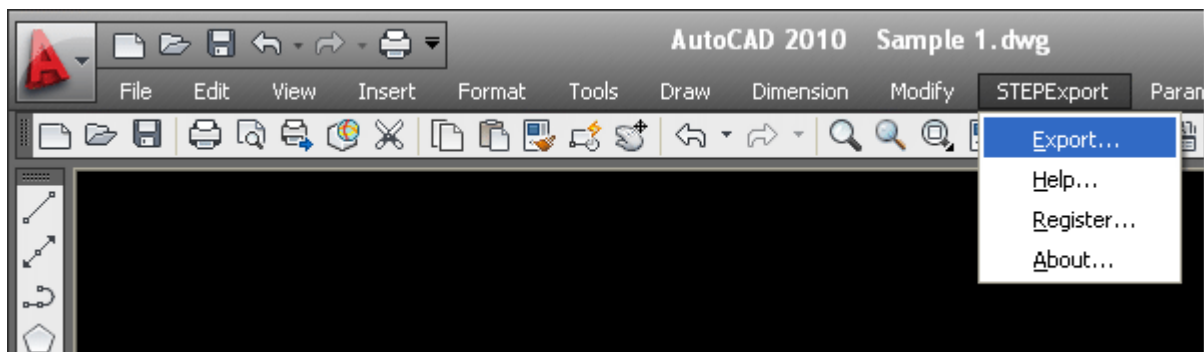
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This tutorial provides the necessary information and hands-on experience to help you get started with *STEP Export for AutoCAD*.

**Step 1:** Start AutoCAD.

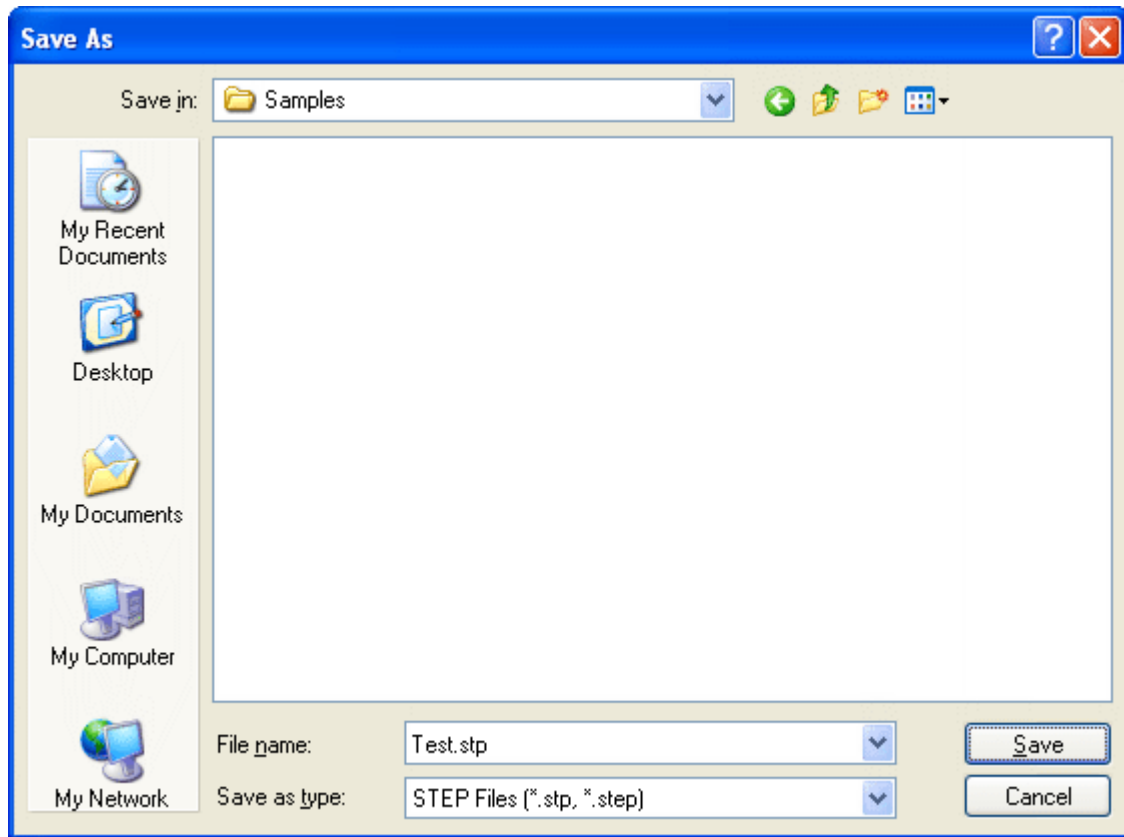
**Step 2:** Select "Open" from the AutoCAD file menu. The AutoCAD "Select File" dialog box is displayed. Browse for the file typically located "C:\Program Files\SYCODE\STEP Export for AutoCAD\Samples\Sample 1.dwg" and click *Open*.

**Step 3:** Select *Export* from the "STEPExport" menu or type *STEPExport* at the AutoCAD command prompt and press *Enter*.



**Step 4:** At the AutoCAD "Select objects" command prompt, select the objects you wish to export. Press *Enter* when done.

**Step 5:** The AutoCAD "Save As" dialog box is displayed. Enter the output file name of a STEP file and click *Save*.



**Step 6:** The "STEP Export for AutoCAD Options" dialog box is displayed. Select the options as required and click *OK*.

## STEP Export for AutoCAD Help

**STEP Export for AutoCAD Options**

Repair and heal (highly recommended) ?

Author  ?

Organization  ?

File description  ?

Schema name  ?

Authorization  ?

Tolerance  ?

Type of STEP file  ?

Angle unit  ?

Export solids as  ?

Export sheets as  ?

Export trim faces as  ?

Export wires as  ?

Join multi-lump bodies to single ABR body ?

Export Class I data ?

Create a log file ?

Log file name  ...

Show log file after import

Note: Click the '?' buttons at the side of each control to get more information about the option

OK Cancel

The model will be exported to the STEP file you specified.