

# **NC Import for AutoCAD Help**

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# NC Import for AutoCAD Help

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Welcome to *NC Import for AutoCAD* Help!

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

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

# Introduction

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*NC Import for AutoCAD* is a Numeric Control NC program (.nc) file import plug-in for AutoCAD®. This plug-in gives AutoCAD the ability to import toolpath data from NC program files.

CNC Machines worldwide use Numeric Control (.nc, .ncc or .cnc) files to convert programmed instructions to tool movement. NC programs consist of a sequence of codes with parameter data to arrive at a precise description of the toolpath. *NC Import for AutoCAD* reads NC program files and recreates the toolpath. The tool movements programmed in NC files are converted in into corresponding line, arc or circle objects and added to the active drawing in AutoCAD.

NC Import 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

*NC Import 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 "NCImport" to the AutoCAD menu containing these newly added commands.

*NC Import 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 NC File Format**

Numerical Control (NC) was the precursor of today's Computer Numerical Control (CNC), which controls the automation of machine tools and the inherent tool processes for which they are designed. The set of instructions, or "program" (usually an ASCII text file in which, in its simplest form, a line of text specifies the axial coordinates of a point in the work envelope) is prepared from a blueprint or CAD file and transferred to the memory of the CNC via floppy drive, serial data interface or a network connection. Once stored in the CNC

memory and selected, the program is executed by pressing the appropriate key on the machine operator panel.

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## ReadMe

This is the *NC Import for AutoCAD* ReadMe file.

Thank you for installing NC Import for AutoCAD.

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

Loading Instructions:

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Since NC Import 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. NC Import for AutoCAD will automatically load itself into AutoCAD the next time you run AutoCAD.

The NC Import for AutoCAD plug-in files are installed into the NC Import for AutoCAD installation folder (typically "C:\Program Files\SYCODE\NC Import 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.

```

NCImport_VC60.arx      -> AutoCAD 2000, 2000i, 2002
NCImport_VC70.arx      -> AutoCAD 2004, 2005, 2006
NCImport_VC80.arx      -> AutoCAD 2007, 2008 (32 Bit), 2009 (32 Bit)
NCImport_VC80x64.arx   -> AutoCAD 2008 (64 Bit), 2009 (64 Bit)
NCImport_VC90.arx      -> AutoCAD 2010 (32 Bit)
NCImport_VC90x64.arx   -> AutoCAD 2010 (64 Bit)
NCImport_VC90.arx      -> AutoCAD 2011 (32 Bit)
NCImport_VC90x64.arx   -> AutoCAD 2011 (64 Bit)

```

To load NC Import for AutoCAD into AutoCAD please follow the steps listed below:

- (1) Select "Load Application..." from "Tools" menu or enter the "\_APpload" 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 NC Import for AutoCAD is completely installed and ready for use.

Usage:

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## NC Import for AutoCAD Help

NC Import for AutoCAD adds new commands to AutoCAD. The commands added are:

- 1) NCImport - Imports a NC file
- 2) NCImportHelp - Displays the NC Import for AutoCAD help file
- 3) NCImportRegister - Registers your copy of NC Import for AutoCAD
- 4) NCImportAbout - Displays the NC Import for AutoCAD about box

Sample Files:

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

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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*NC Import for AutoCAD* adds new commands to AutoCAD and a submenu called *NCImport* which houses them. The new commands are:

<a href="#">NCImport</a>	Imports a NC file
<a href="#">NCImportHelp</a>	Displays the <i>NC Import for AutoCAD</i> help file
<a href="#">NCImportRegister</a>	Register your copy of <i>NC Import for AutoCAD</i>
<a href="#">NCImportAbout</a>	Displays the <i>NC Import for AutoCAD</i> about box

## NCImport

---

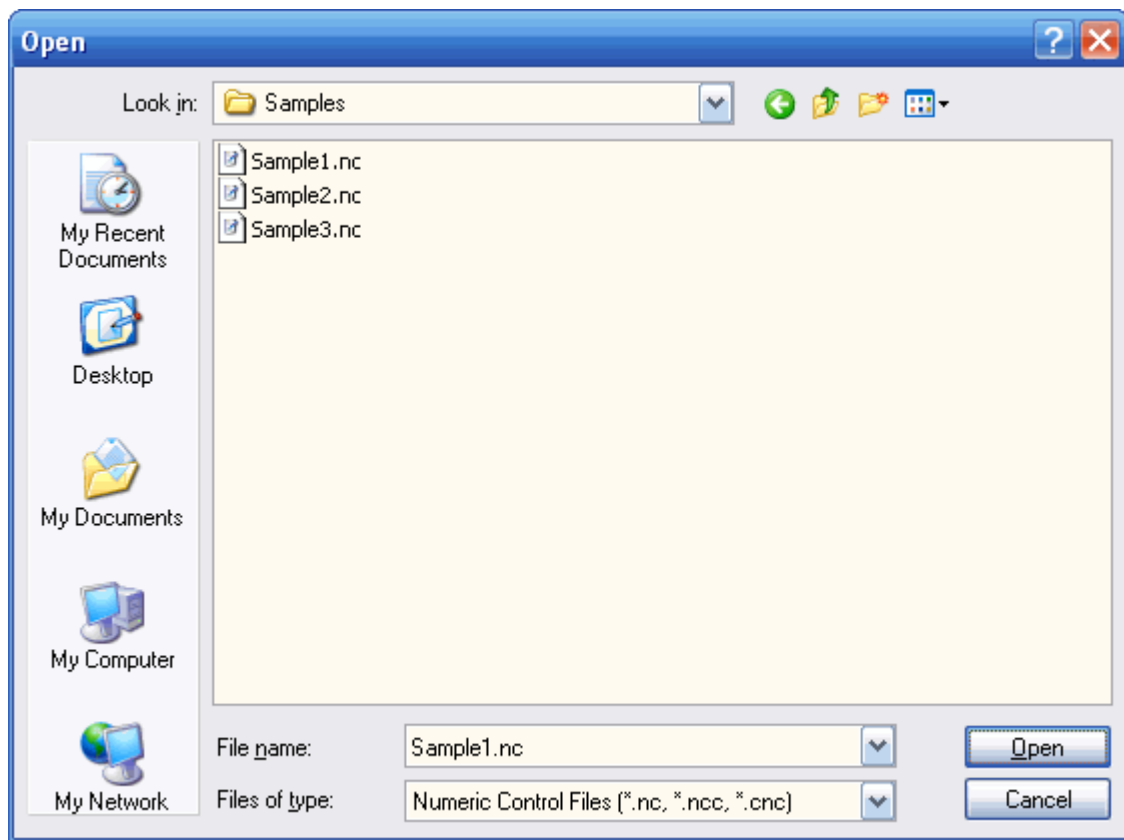
<b>Menu Button</b>	NCImport > Import
<b>Command</b>	NCImport

---

This command imports geometric data from ASCII and Binary NC files into AutoCAD.

### To import a NC file

1. Select *Import* from the "NCImport" menu or type *NCImport* at the AutoCAD command prompt and press *Enter*.
2. The AutoCAD "Open" dialog box is displayed. Browse for the NC file you wish to import and click *Open*.



3. The "NC Import for AutoCAD Options" dialog box is displayed. Set the options as required and click *OK*.

## NCImportHelp

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<b>Menu Button</b>	NCImport > Help
<b>Command</b>	NCImportHelp

---

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

## NCImportRegister

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<b>Menu Button</b>	NCImport > Register
<b>Command</b>	NCImportRegister

---

This command is used to register your copy of *NC Import 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.

**SYCODE License Server**

Product Name: NC Import for AutoCAD 2010 version 1.0

Host ID: 00-1D-7D-FD-AD-1D

License Key: vVPCEMleui675.mdncv2AT941K0B02hD00204RLB40AA2gFm  
B0DKDN80z91B703Y05SvB0C79D4E5AFC070A1401EtBAYic  
E59rfC414E560qp7BAHw82YLSJUW/kdo2309

Buttons: Buy Online, Request Key, Update Key

How do I get a license key?

=== LICENSE KEY PARAMETERS ===  
Key type: Trial  
Expires: 17-Aug-2009  
Runs remaining: 10

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:

## NC Import for AutoCAD Help

- (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.
- (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)

## NCImportAbout

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<b>Menu Button</b>	NCImport > About
<b>Command</b>	NCImportAbout

---

This command is used to display the *NC Import for AutoCAD* About box. The About box lists the software and its version.



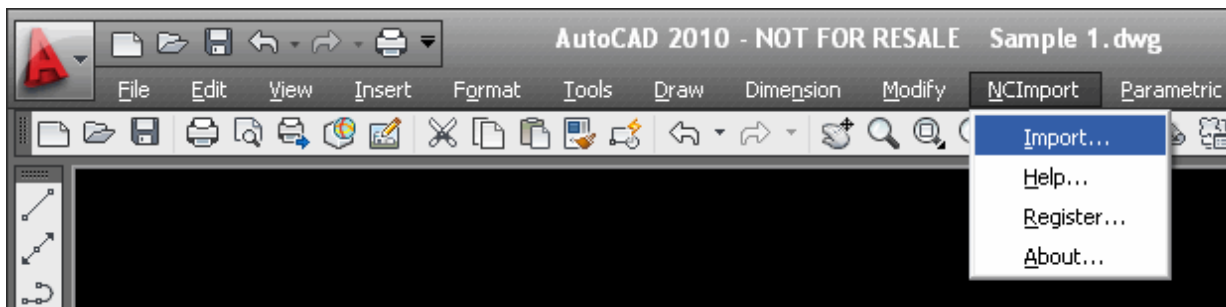
# Tutorial

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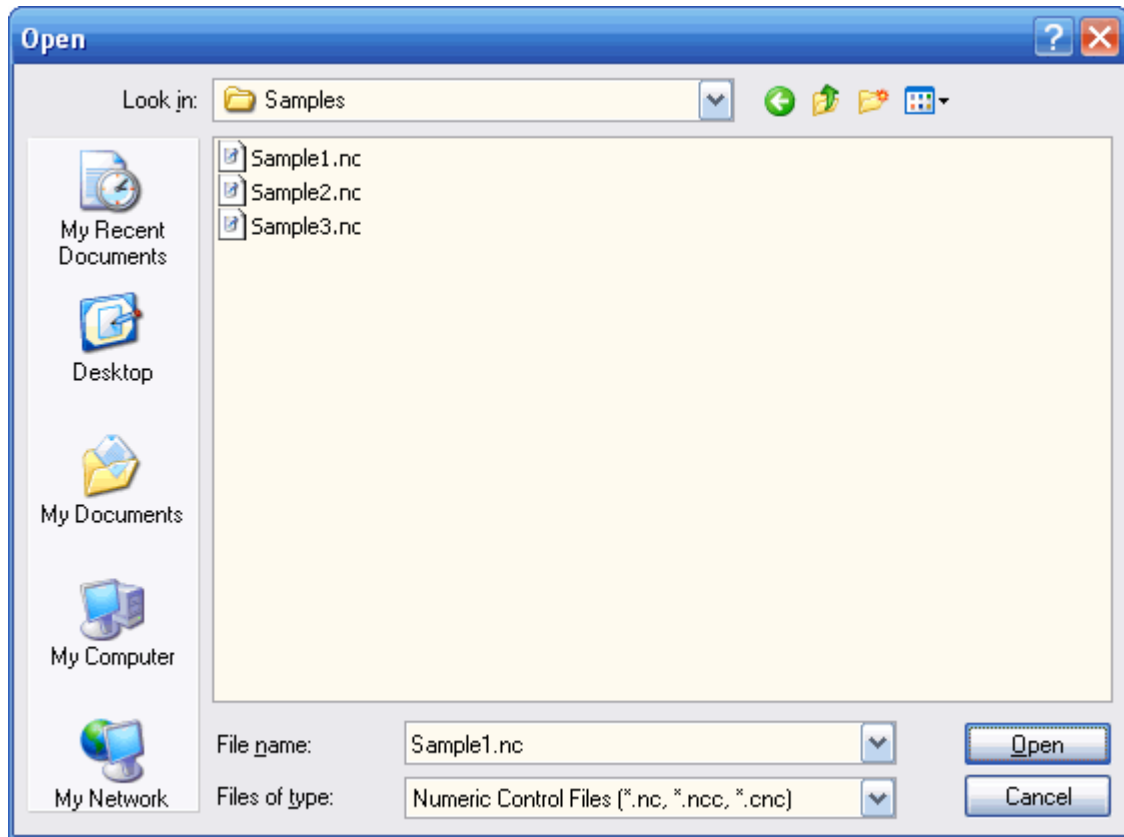
This tutorial provides the necessary information and hands-on experience to help you get started with *NC Import for AutoCAD*.

**Step 1:** Start AutoCAD.

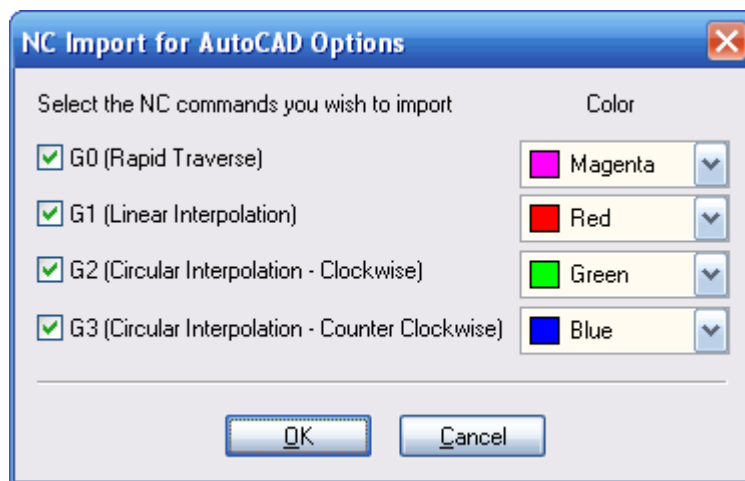
**Step 2:** Select *Import* from the "NCImport" menu or type *NCImport* at the AutoCAD command prompt and press *Enter*.



**Step 3:** The AutoCAD "Open" dialog box is displayed. Browse for the file C:\Program Files\SYCODE\NC Import for AutoCAD\Samples\Sample 1.nc and click *Open*.



**Step 4:** The "NC Import for AutoCAD Options" dialog box is displayed. Set the options as required and click OK.



The figure below shows the final result.

