

## **NC Import for Rhino Help**

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# NC Import for Rhino Help

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Welcome to *NC Import for Rhino* Help!

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

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

# Introduction

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*NC Import for Rhino* is a Numeric Control NC program (.nc) file import plug-in for Rhinoceros® 3.0 and 4.0. This plug-in gives Rhino 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 Rhino* reads NC program files and recreates the toolpath. The tool movements programmed in NC files are converted into corresponding line, arc or circle objects and added to the active drawing in Rhino.

*NC Import for Rhino* is designed to work with the following versions of Rhino:

- Rhino 5.0 (64 Bit)
- Rhino 4.0, 5.0 (32 Bit)
- Rhino 3.0

*NC Import for Rhino* is designed to be extremely user friendly and easy to understand. Once installed, it automatically loads itself into the Rhino environment. If automatic loading fails there are manual loading instructions in the ReadMe file. Once loaded it adds new commands to Rhino's existing commands and a new submenu called "NCImport" to the Rhino menu containing these newly added commands.

*NC Import for Rhino* 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 Rhino* ReadMe file.

NC Import for Rhino is a plug-in for Rhinoceros. NC Import for Rhino adds several new commands to Rhino. It also adds a new menu to the Rhino menu called "NCImport" which contains these newly added commands.

### Automatic Loading:

=====

NC Import for Rhino has to be loaded into the Rhino before it can be used. The installer does this automatically. The next time you run Rhino you will see the "NCImport" menu added to the Rhino menu. Due to an installation problem, if the "NCImport" menu does not appear then you will have to manually load the plug-in into Rhino.

### Manual Loading:

=====

The NC Import for Rhino plug-in files are installed into the NC Import for Rhino installation folder (typically "C:\Program Files\SYCODE\NC Import for Rhino\"). The plug-in files have an extension of ".rhp". There is one plug-in file for each version of Rhino. The plug-in file name indicates the version of Rhino that it has been designed for.

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

NCImport\_VC60.rhp -> Rhino 3.0  
NCImport\_VC80.rhp -> Rhino 4.0, 5.0 (32 Bit)  
NCImport\_VC80x64.rhp -> Rhino 5.0 (64 Bit)

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

- (1) Start Rhino
- (2) Type "PlugInManager" at the command prompt and press "Enter"
- (3) Click the "Install" button.
- (4) Browse for the plug-in file for your version of Rhino in the NC Import for Rhino installation folder.
- (5) Click the "Open" button.
- (6) Click the "Close" button.

### Usage:

=====

NC Import for Rhino adds a new menu to Rhino called "NCImport". All the NC Import for Rhino commands can be invoked from this new menu.

### Support:

=====

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

## Contact

---

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 Rhino* adds new commands to Rhino 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 Rhino</i> help file
<a href="#">NCImportRegister</a>	Register your copy of <i>NC Import for Rhino</i>
<a href="#">NCImportAbout</a>	Displays the <i>NC Import for Rhino</i> about box

## NCImport

---

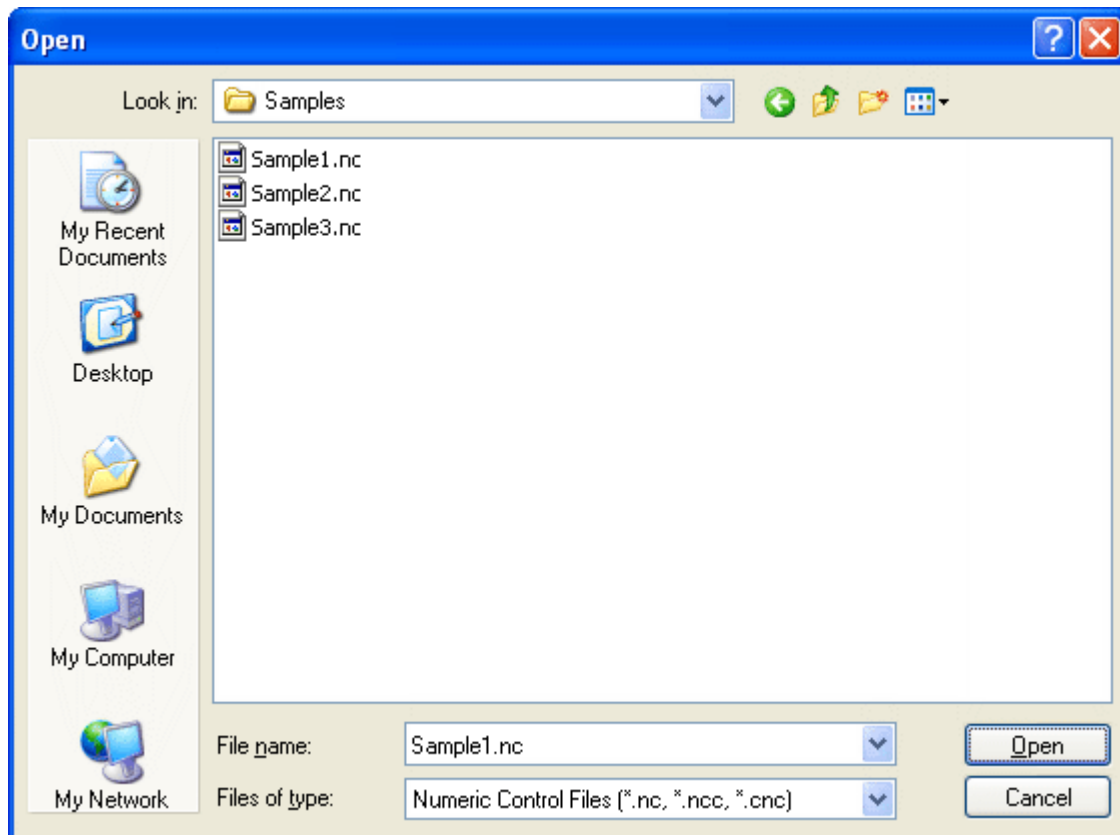
<b>Menu Button</b>	NCImport > Import
<b>Command</b>	NCImport

---

This command imports toolpath geometry from NC files into Rhino.

### To import a NC file

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



3. The *NC Import for Rhino Options* dialog box is displayed. Set the options as desired 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

---

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

---

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

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 Rhino 5.0 version 1.0

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

License Key: vDAa4C107201uDc0F04moB90AAu33u406QDRA0I9217D5b047C50r17E2FX94C8D0A14c54uQ8nZB65Cjr46089360HEAAJmH2E

[How do I get a license key?](#)

=== LICENSE KEY PARAMETERS ===  
 Key type: Trial  
 Expires: 05-Apr-2010  
 Runs remaining: 10

### How do I get a Trial Key?

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### How do I get a Permanent Key?

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### IMPORTANT:

## NC Import for Rhino 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

---

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

---

This command displays the *NC Import for Rhino* About box. The About box lists the software and its version.



# Tutorial

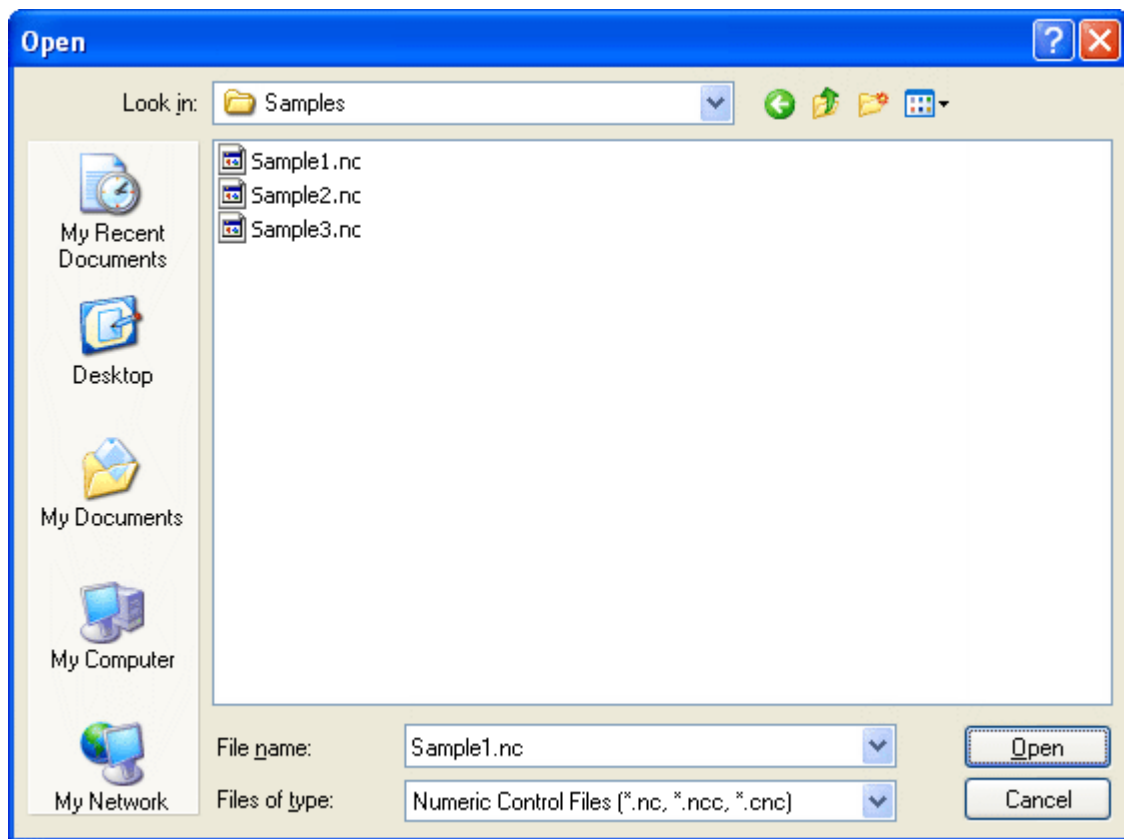
---

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

**Step 1:** Start Rhino.

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

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



**Step 4:** The *NC Import for Rhino Options* dialog box is displayed. Set the options as shown below and click *OK*.



The figure below shows the final result.

