

# **3DM Import for AutoCAD**

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# 3DM Import for AutoCAD Help

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Welcome to *3DM Import for AutoCAD* Help!

This help file provides all the information you need to understand and use *3DM 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 *3DM Import for AutoCAD* help file is divided into the following sections:

- [Introduction](#) - Introduction to *3DM Import for AutoCAD*.
- [Command Reference](#) - Quick reference of all the commands added by *3DM Import for AutoCAD*.
- [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 *3DM Import for AutoCAD* plug-in file into the AutoCAD environment please refer to the [ReadMe](#) file.
- Please read the [License Agreement](#) before using the software.

# Introduction

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*3DM Import for AutoCAD* is a Rhinoceros 3D Model / OpenNURBS 3DM file import plug-in for AutoCAD. This plug-in gives AutoCAD the ability to import geometric data from 3DM files.

*3DM Import for AutoCAD* offers seamless conversion of 3DM geometry to AutoCAD's DWG geometry. The integrity of layers, blocks, block instances or inserts, dimensions, etc. are maintained across the conversion. Optionally, polycurves, meshes and blocks can be exploded into simpler objects during the import.

*3DM Import for AutoCAD* is designed to work with the following versions of AutoCAD:

- 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

*3DM 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 "3DMImport" to the AutoCAD menu containing these newly added commands.

*3DM Import for AutoCAD* comes with detailed documentation for each command as well as a [tutorial](#) to get you started in the shortest possible time.

If you need any additional information please [contact](#) SYCODE.

## **The 3DM File Format**

The 3DM (3D Model) file format is the native file format of Rhinoceros, the NURBS modeling software from Robert McNeel & Associates. The OpenNURBS Initiative was founded by Robert McNeel & Associates in January 2000, with the sole purpose of providing CAD, CAM, CAE and computer graphics software users reliable methods for transferring 3D geometry between applications via the 3DM file format. TerrainCAD, our terrain generation, editing and modeling software, also uses the 3DM file format as its native file format.

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## 3DM Import for AutoCAD

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# 3DM Import for AutoCAD

## ReadMe

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This is the *3DM Import for AutoCAD* ReadMe file.

Thank you for installing 3DM Import for AutoCAD.

Please read this ReadMe document carefully and completely. It contains important information which is vital to the proper working of 3DM Import for AutoCAD.

### Loading Instructions:

Since 3DM 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. 3DM Import for AutoCAD will automatically load itself into AutoCAD the next time you run AutoCAD.

The 3DM Import for AutoCAD plug-in files are installed into the 3DM Import for AutoCAD installation folder (typically "C:\Program Files\SYCODE\3DM 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.

|                       |   |
|-----------------------|---|
| 3DMImport_VC60.arx    | -> AutoCAD 2000, 2000i, 2002                  |
| 3DMImport_VC70.arx    | -> AutoCAD 2004, 2005, 2006                   |
| 3DMImport_VC80.arx    | -> AutoCAD 2007, 2008 (32 Bit), 2009 (32 Bit) |
| 3DMImport_VC80x64.arx | -> AutoCAD 2008 (64 Bit), 2009 (64 Bit)       |
| 3DMImport_VC90.arx    | -> AutoCAD 2010 (32 Bit)                      |
| 3DMImport_VC90x64.arx | -> AutoCAD 2010 (64 Bit)                      |

- (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 3DM Import for AutoCAD is completely installed and ready for use.

### Usage:

3DM Import for AutoCAD adds new commands to AutoCAD. The commands added are:

- 1) 3DMImport - Imports a 3DM file
- 2) 3DMImportHelp - Displays the 3DM Import for AutoCAD help file
- 3) 3DMImportRegister - Registers your copy of 3DM Import for AutoCAD
- 4) 3DMImportAbout - Displays the 3DM Import for AutoCAD about box

### Sample Files:

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Sample 3DM files are copied into the Samples folder which is located in the 3DM Import for AutoCAD installation folder (typically "C:\Program Files\SYCODE\3DM Import for AutoCAD\"). You can try 3DM Import 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,<br>NH 17, Alto Porvorim,<br>Goa - 403521<br>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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*3DM Import for AutoCAD* adds a new command to AutoCAD. It also adds two supporting commands.

|                                   |  |
|-----------------------------------|--|
| <a href="#">3DMImport</a>         | Import a 3DM file                                    |
| <a href="#">3DMImportHelp</a>     | Displays the <i>3DM Import for AutoCAD</i> help file |
| <a href="#">3DMImportRegister</a> | Register your copy of <i>3DM Import for AutoCAD</i>  |
| <a href="#">3DMImportAbout</a>    | Displays the <i>3DM Import for AutoCAD</i> about box |

## 3DMImport

---

**Menu Button** 3DMImport > Import

**Command** 3DMImport

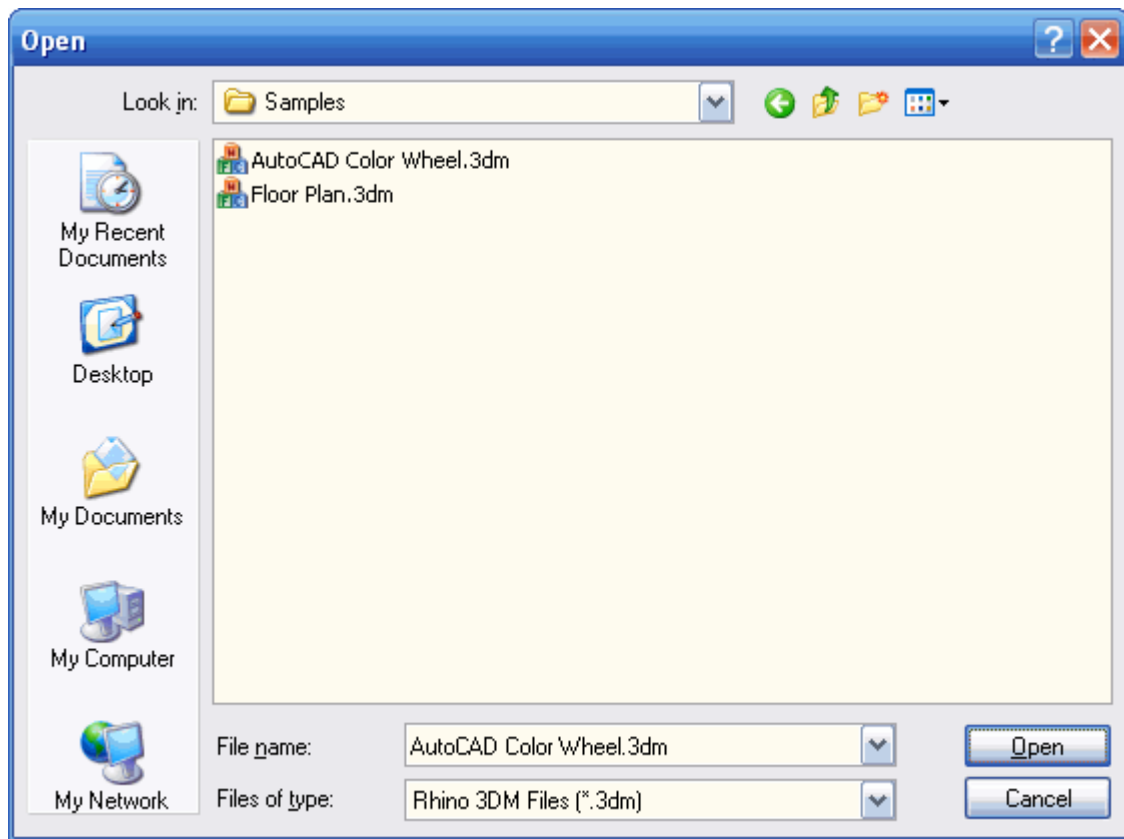
---

This command imports a mesh from a 3DM file.

This command reads mesh objects from a 3DM file and adds them as PolyFace mesh objects to the active drawing. The 3DM file format is the native file format of Rhinoceros, the NURBS modeling software from McNeel.

### To import a 3DM file

1. Select *Import* from the "3DMImport" menu or type *3DMImport* at the AutoCAD command prompt and press *Enter*.
2. The AutoCAD file "Open" dialog box is displayed. Browse for the 3DM file you wish to import and click *Open*.



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

**Note:**

- When importing a 3DM file object whose vertices exceed the PolyFace Mesh limit, the object will be imported as individual 3D Face objects instead. This is an AutoCAD limitation. In such a case, when converting the mesh into a solid select all the 3D Face objects.

## 3DMImportHelp

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|                    |                  |
|--------------------|------------------|
| <b>Menu Button</b> | 3DMImport > Help |
| <b>Command</b>     | 3DMImportHelp    |

---

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

## 3DMImportRegister

**Menu Button** 3DMImport > Register

**Command** 3DMImportRegister

This command is used to register your copy of *3DM 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: 3DM Import for AutoCAD 2010 version 1.0

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

License Key: vVPCEMleui675.mdncv2AT941K0B02hD00204RLB40AA2gFm  
B0DKDN80z91B703Y05SvB0C79D4E54FC070A1401EhBAYic  
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:

- (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.

## 3DM Import for AutoCAD

(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)

## 3DImportAbout

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|                    |                  |
|--------------------|------------------|
| <b>Menu Button</b> | 3DImport > About |
| <b>Command</b>     | 3DImportAbout    |

---

This command is used to display the *3DM Import for AutoCAD* About box. The About box lists the software and its version.



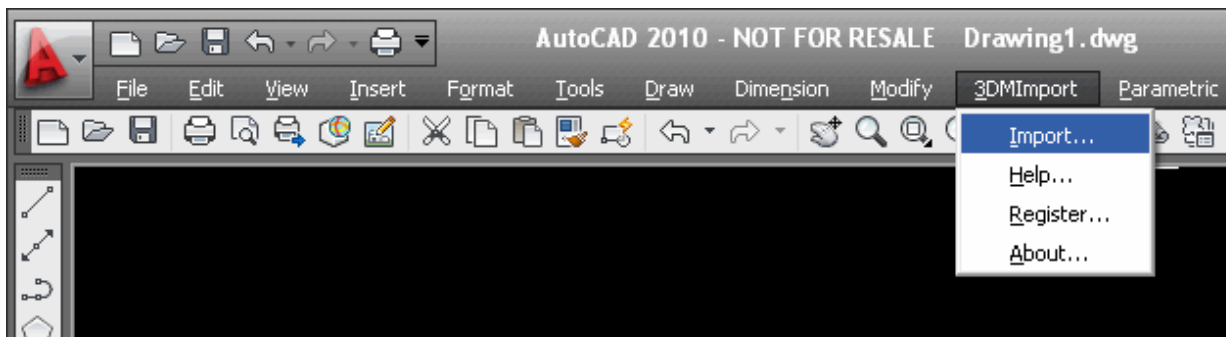
# Tutorial

---

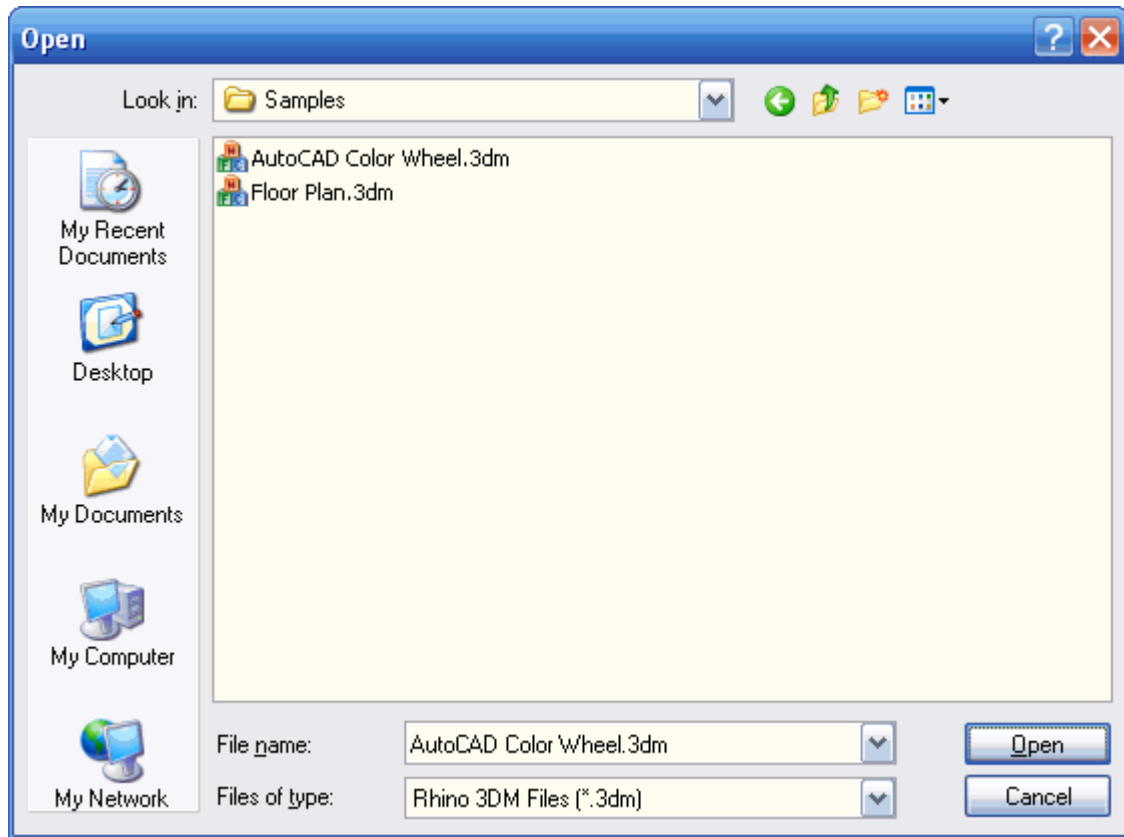
This tutorial provides the necessary information and hands-on experience to help you get started with *3DM Import for AutoCAD*.

**Step 1:** Start AutoCAD.

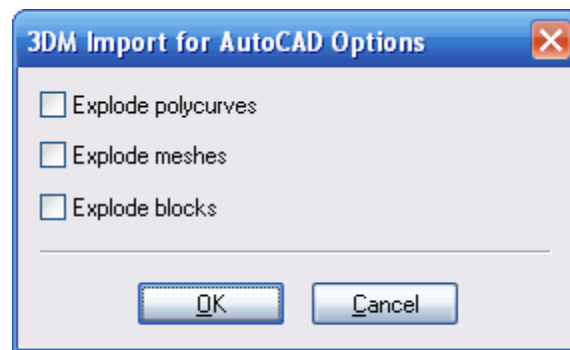
**Step 2:** Select *Import* from the "3DMImport" menu or type *3DMImport* at the AutoCAD command prompt and press *Enter*.



**Step 3:** The AutoCAD "Open" dialog box is displayed. Browse for the file C:\Program Files\SYCODE\3DM Import for AutoCAD\Samples\AutoCAD Color Wheel.3dm and click *Open*.

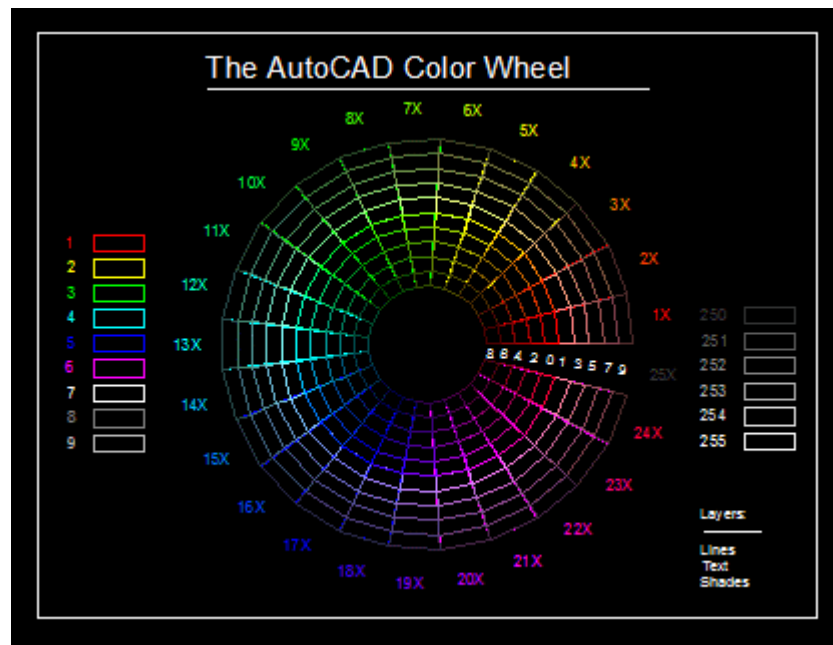


**Step 4:** The "3DM Import for AutoCAD Options" dialog box is displayed. Set the options as required and click OK.



The figure below shows the final result.

## 3DM Import for AutoCAD



The options box gives you the flexibility to choose the output of the 3DM file.

### **Explanation of the Options dialog box**

**Explode polycurves** - Breaks objects down into polycurves.

**Explode meshes** - Breaks objects down into meshes.

**Explode blocks** - Breaks objects down into blocks.