

Newsletter

May
2001

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AutoCAD 2000
Mechanical Desktop®
Autodesk Inventor™
Architectural Desktop
Land Development Desktop
AutoCAD® Map
3D Studio MAX® / VIZ®

Note: Not all products are available from all offices.

Automated Design Systems AutoCAD® 2002 NEWSLETTER

Serving AutoCAD users for 13 Years 1988 - 2001

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Please fax this sheet to (905) 662-4842 to have these changes made to our newsletter distribution list.

AutoCAD 2002's coming!

Autodesk didn't whisper a word of the next version of AutoCAD at its dealer conference in Las Vegas in late March. So when Autodesk held a conference call last week, it came as a bit of a surprise that the discussion was around AutoCAD 2002, which is scheduled for release on June 15.

AutoCAD 2002 continues on the recent strategy to provide more frequent updates to Autodesk's core software platform, as Autodesk did by releasing AutoCAD 2000i last summer, just over a year after the release of AutoCAD 2000.

The users who will be most interested in AutoCAD 2002 will be those users who are currently working on AutoCAD Release 14, especially since **Autodesk won't process any more upgrades from R14 after January 15, 2002.** So make sure you budget for your upgrades sooner rather than later.

There are two very nice things about this release. First, all of the "flavours" of AutoCAD – Mechanical Desktop, Architectural Desktop, Land Development Desktop, AutoCAD Map – will be released in their respective AutoCAD 2002 formats within 30 days of the release of AutoCAD 2002. Second, **the DWG file format doesn't change from AutoCAD 2000.** You'll be able to open drawing files created in AutoCAD 2002 within AutoCAD 2000 or AutoCAD 2000i without conversion, although you may see a 'proxy message' if you have used some of the new AutoCAD 2002 features.

Read more about AutoCAD 2002 in this and future issues of our newsletter!



Bruce Lamb, President

AutoCAD 2002 Seminars

Whether you are working on AutoCAD Release 14 or AutoCAD 2000, you'll want to see all of the features of AutoCAD 2002 at one of our upcoming seminars in June.

| | |
|----------------|---------|
| Burlington | June 18 |
| Victoria | June 18 |
| Cambridge | June 19 |
| London | June 20 |
| Vancouver | June 20 |
| St. Catharines | June 21 |
| Windsor | June 22 |
| Mississauga | June 25 |
| Markham | June 25 |
| Belleville | June 26 |
| Ottawa | June 27 |
| Barrie | June 28 |
| Sudbury | June 28 |

Call 1-888-994-ACAD x34 to reserve your seat today, or circle the desired seminar above and fax the information below to (905) 662-4842. Location information and exact times will be faxed to you as confirmation.

Name: _____

Company: _____

Phone: _____

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ADT R3 Service Pack...

If you own a license of Architectural Desktop R3, be sure to download and install the latest service pack from Autodesk's web site: support.autodesk.com/downloads.asp

Quote of the month:

"Families are like fudge ...
...mostly sweet, with a few nuts."
– Unknown

AutoCAD 2002 Top 10 Features

Here are some of our favourite features of AutoCAD 2002:

1. **First, do no harm.** The AutoCAD 2002 DWG file is bi-directionally compatible with AutoCAD 2000 and AutoCAD 2000i. If you use a new feature in AutoCAD 2002 and then open the drawing in AutoCAD 2000 or 2000i, you'll see the 'proxy' warning message, but all of your geometry will be there, and the entity will function just like it normally would in AutoCAD 2000.
2. **Associative Dimensions.** "What?", you say. "Associative dimensions have been around for years." Yes – but the new associative dimensions actually attach themselves to entity features. So if you use a grip to move or stretch an entity, the dimension will move with it. This feature makes it even easier to maintain the integrity of your drawings and can be toggled to the AutoCAD 2000 style of dimensions or an 'exploded' dimension if you wish. Another really nice feature is the ability to dimension model space entities within PaperSpace. As your zoom level changes, the dimensions adjust their position, but their values don't change unless the associated entities change.
3. **BATTMAN (Block ATtribute MANager)** enables you to modify attributes easily within a block definition without having to explode or redefine the block. Changes are immediately shown in existing blocks.
4. **Standards Manager:** Has your design team or consultants adhered to your company standards? Without spending lots of time going through each drawing, it is difficult to tell. The Standards Manager will tell you when dimension styles, layers, linetypes or text style differ from your company's standard and will allow you to correct them quickly and easily.

**Do it better... faster...
with VBA training from
Automated Design Systems**

Are you interested in customizing commands for AutoCAD to make it work the way **you** work?

Would you like to create drawings faster by creating **your own** powerful parametric functions & time saving features?

Register now for one of our **Visual Basic for AutoCAD** courses – 3 days of effective, hands-on training designed to make you more productive!

| <u>Location</u> | <u>Dates</u> | <u>Cost</u> |
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| Burlington | May 29 – 31 | \$1195 per person |
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**To register call 1-888-994-ACAD x34,
or visit our web site at www.autodes.com.**

AutoCAD[®] 2000i Tips! The Last AutoCAD 2000 Tip UCSICON Properties

If you do any amount of 3D work, you'll probably want to keep the UCS icon (in the bottom left corner of your screen). But did you know that you can dramatically change how it is displayed? Here's how:

```
Command: UCSICON
Enter an option
[ON/OFF/All/Noorigin/ORigin/Properties] <ON>: P
```

In the UCS Icon dialog box, you can change the style, size, line thickness and even the colour of your UCSICON. Try it out!

Do you remember the first AutoCAD 2000 tip? Email your answer and the month of the newsletter to blamb@autodes.com and we'll send a keychain pocket knife to the first 30 respondents (limit 1 per company).

AutoCAD 2002 Features, continued...

5. **ATTEDIT:** The new Attribute Edit command allows you to change properties of attributes easily within an inserted block, such as the attribute's visibility, text style, layer and colour.
6. **Attribute Extraction Wizard:** *Finally*, a better attribute extraction method. It's hard to believe we've been using the old text prompted attribute extraction method for so long. You can extract your attribute information directly into a text (.csv), Excel (.xls) or Access (.mdb) format. You can create an attribute extraction from a selection of drawings, too!
7. **Layer Translator:** How many times have you received a drawing from a consultant, only to find that they have totally ignored your layer scheme. The Layer Translator is worth the price of an upgrade alone!
8. **SCALETEXT:** This command gives you an easy way to scale all or selected text within the drawing by a scale factor or to a specific height.
9. **Publish to Web II:** It is now easier than ever to publish your drawings to a web site for others to view. Publish to Web now allows the use of templates and themes to allow you to publish your design information in one of many formats.
10. **eTransmit:** This feature has been improved to make sharing of design files a breeze. Pack up all of your design files, fonts, Xrefs, etc. into a single ZIP or EXE file, and instantly email them to an associate.

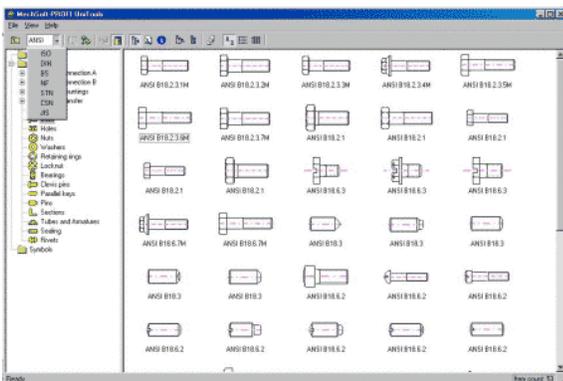
There are lots of other features. Suffice to say that between the improvements in AutoCAD 2000, 2000i and now 2002, R14 users have lots of reasons to upgrade!

MechSoft.com now available for Inventor R4

MechSoft.com for Inventor 4 contains a world-class database of standard parts incorporating a large selection of international standards (ANSI, BS, CSN, DIN, ISO, JIS, NF and STN). With MechSoft.com you now have access to more than **1 million standard parts**. Standard parts can be linked to each other by position and size. The size link (e.g. between the bolt and the washer and nut) is created automatically when inserting a part model into the drawing. For all parts Inventor 4 parametric models were used so that it is possible to change the size of the part without breaking the geometric links between the models.

The following categories of standard parts are available:

- connecting material (nuts, washers, bolts)
- lockwashers, retaining rings
- keys, pins, splinings
- bearings, lock nuts, washers
- O-rings, seals
- rivets
- tubes and armatures
- sections, flanges and pressure vessel parts



In addition to its standard parts library, Mechsoft.com also produces powerful tools for design optimization, including:

- The Group Manager which allows users to systematically resolve calculations across entire assemblies by mutually linking calculations, standard parts, elements, user-defined parts and assembly parameters
- Over 50 calculation programs that are embedded to solve a large variety of mechanical engineering problems, from connecting parts and gears to shaft calculations and more
- On-Line Engineering Handbook
- External Database Link
- Behavioral Optimization

Call your nearest Automated Design Systems rep for pricing on the Mechsoft.com options.

Inventor 4.0 Tips Slicing Graphics

One of the many powerful features of Autodesk Inventor is the ability to create half-section or quarter sections of your part or assembly on-the-fly. Here's how:

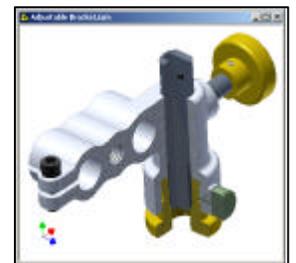
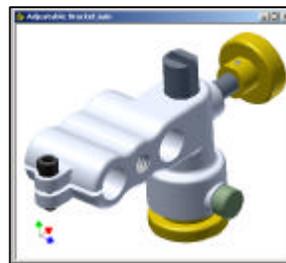
To slice a single active part perform the following steps:

1. Place a workplane in your part where you want to section the part.
2. Right-click on the workplane and select 'New Sketch', and then select the border of the workplane to create a sketch.
3. While the sketch mode is active, right-click on the edge of the workplane again and select 'Slice Graphics'. Your part will split along the workplane.
4. To exit from the 'sliced graphics' mode, either finish the sketch or right-click and toggle off the 'slice graphics' mode.

Slicing the graphics in your assembly is even easier:

1. From the Assembly pane in the Browser Bar at the left of your screen, select the "Quarter Section View" or "Half Section View" from the bottom of the pane.
2. Select any face within your model to slice the graphics along that face, or -- if you have selected Quarter Section View -- select 2 faces. The section cut for the quarter section view will be created through the region where the two faces intersect.
3. Select 'Done' from the right click menu. You can now manipulate your assembly parts, drive constraints, etc.
4. To return to the complete assembly again, select "End Section View" from the same sub-menu where you selected the "Quarter Section View" or "Half Section View".

If you want to section the assembly through an area that doesn't have an appropriate face, simply create some workplanes in one of your parts and use those workplanes as your slicing face(s).



Inventor R4 Service Pack...

If you own a license of Inventor R4, be sure to download and install the latest service pack from Autodesk's web site:

support.autodesk.com/downloads.asp

Do it Better... Faster...

with AutoCAD training from Automated Design Systems

Automated Design Systems runs AutoCAD training regularly from all of our offices. Here is a summary of courses that are scheduled in our offices in the coming weeks. Dates are subject to change without notice, so please contact your rep to reserve your seat as soon as possible.

Barrie Call Jim Clubine at (705) 739-1818

| Course | Dates | Price |
|----------------------------------|--------------|---------|
| AutoCAD Fundamentals | May 14 - 18 | \$1,095 |
| AutoCAD 2000i Update from R14 | May 22 - 23 | \$695 |
| AutoCAD 2000 Advanced | May 24 - 25 | \$795 |
| AutoCAD 2000 3D Modeling | May 28 - 30 | \$1,095 |
| AutoCAD Map Fundamentals | June 4 - 6 | \$1,095 |
| AutoCAD 2000i Update (Condensed) | June 7 | \$395 |
| AutoCAD Customization | June 11 - 12 | \$795 |

Belleville Call Nick Nowitski at (613) 967-3694

| Course | Dates | Price |
|----------------------------------|-----------------|---------|
| AutoCAD 2000i Update from R14 | May 14 - 15 | \$695 |
| Autodesk Inventor | May 16 - 18 | \$1,095 |
| AutoCAD 2000 3D Modeling | May 22 - 24 | \$1,095 |
| AutoCAD 2000i Update (Condensed) | May 25 | \$395 |
| AutoCAD 2000 Advanced | May 28 - 29 | \$795 |
| AutoCAD LT Fundamentals | May 30 - June 1 | \$795 |
| 3D StudioViz | June 4 - 6 | \$1,095 |

Cambridge Call Mirek Niedzialkowski at (519) 651-1600

| Course | Dates | Price |
|------------------------------------|-----------------|---------|
| Autodesk Inventor | May 14 - 16 | \$1,095 |
| AutoCAD 2000i Update from R14 | May 17 - 18 | \$695 |
| AutoCAD 2000 Advanced | May 22 - 23 | \$795 |
| AutoCAD 2000i Update (Condensed) | May 24 | \$395 |
| Mechanical Desktop Fundamentals | May 28 - June 1 | \$1,395 |
| Visual Basic for AutoCAD | June 5 - 7 | \$1,195 |
| Architectural Desktop Fundamentals | June 11 - 13 | \$1,095 |

London Call Laura Minogue at (519) 652-3825

| Course | Dates | Price |
|----------------------------------|-----------------|---------|
| AutoCAD Fundamentals | May 14 - 18 | \$1,095 |
| AutoCAD 2000 Advanced | May 22 - 23 | \$795 |
| Mechanical Desktop Fundamentals | May 28 - June 1 | \$1,395 |
| AutoCAD Customization | June 4 - 5 | \$795 |
| AutoCAD 2000i Update from R14 | June 6 - 7 | \$695 |
| AutoCAD Map Fundamentals | June 11 - 13 | \$1,095 |
| AutoCAD 2000i Update (Condensed) | June 14 | \$395 |

Mississauga Call Matt Willcocks at (905) 565-8000

| Course | Dates | Price |
|------------------------------------|-------------|---------|
| Mechanical Desktop Fundamentals | May 14 - 18 | \$1,395 |
| AutoCAD 2000 Advanced | May 22 - 23 | \$795 |
| AutoCAD 2000i Update from R14 | May 24 - 25 | \$695 |
| Mechanical Desktop Update | May 28 | \$395 |
| AutoCAD 2000 3D Modeling | May 29 - 31 | \$1,095 |
| Architectural Desktop Fundamentals | June 4 - 6 | \$1,095 |
| AutoCAD 2000i Update (Condensed) | June 7 | \$395 |

Ottawa Call Steve McCarthy at (613) 225-1717

| Course | Dates | Price |
|----------------------------------|--------------|---------|
| AutoCAD Fundamentals | May 14 - 18 | \$1,095 |
| Autodesk Inventor | May 22 - 24 | \$1,095 |
| AutoCAD 2000i Update (Condensed) | May 25 | \$395 |
| AutoCAD 2000i Update from R14 | May 28 - 29 | \$695 |
| AutoCAD 2000 Advanced | May 30 - 31 | \$795 |
| AutoCAD 2000 3D Modeling | June 4 - 6 | \$1,095 |
| Mechanical Desktop Fundamentals | June 11 - 15 | \$1,395 |

Richmond Hill Call Jesse Higgs at (905) 889-6662

| Course | Dates | Price |
|----------------------------------|--------------|---------|
| AutoCAD 2000 Advanced | May 17 - 18 | \$795 |
| Autodesk Inventor | May 22 - 24 | \$1,095 |
| AutoCAD 2000i Update (Condensed) | May 25 | \$395 |
| AutoCAD 2000 3D Modeling | May 28 - 30 | \$1,095 |
| AutoCAD 2000i Update from R14 | June 4 - 5 | \$695 |
| 3D StudioViz | June 6 - 8 | \$1,095 |
| Visual Basic for AutoCAD | June 12 - 14 | \$1,195 |

Stoney Creek Call Phillip Morais at (905) 662-5413

| Course | Dates | Price |
|----------------------------------|-----------------|---------|
| Mechanical Desktop Fundamentals | May 14 - 18 | \$1,395 |
| Autodesk Inventor | May 22 - 24 | \$1,095 |
| AutoCAD Fundamentals | May 28 - June 1 | \$1,095 |
| AutoCAD 2000 Advanced | June 4 - 5 | \$795 |
| 3D StudioViz | June 6 - 8 | \$1,095 |
| AutoCAD 2000i Update from R14 | June 11 - 12 | \$695 |
| AutoCAD 2000 3D Modeling | June 13 - 15 | \$1,095 |
| AutoCAD 2000i Update (Condensed) | June 25 | \$395 |

Sudbury Call Costa Aza at (705) 677-4428

| Course | Dates | Price |
|------------------------------------|-----------------|---------|
| AutoCAD Fundamentals | May 14 - 18 | \$1,095 |
| Autodesk Inventor | May 22 - 24 | \$1,095 |
| AutoCAD 2000 Advanced | May 28 - 29 | \$795 |
| Architectural Desktop Fundamentals | May 30 - June 1 | \$1,095 |
| AutoCAD 2000i Update from R14 | June 4 - 5 | \$695 |
| 3D StudioViz | June 6 - 8 | \$1,095 |

Vancouver Call Byron Studer at (604) 647-2220

| Course | Dates | Price |
|----------------------------------|-------------|---------|
| AutoCAD Fundamentals | May 14 - 18 | \$1,095 |
| AutoCAD 2000 Advanced | May 22 - 23 | \$795 |
| AutoCAD 2000 3D Modeling | May 28 - 30 | \$1,095 |
| AutoCAD 2000i Update (Condensed) | May 31 | \$395 |
| AutoCAD 2000i Update from R14 | June 4 - 5 | \$695 |

Windsor Call Reynaldo Faraon at (519) 972-8788

| Course | Dates | Price |
|----------------------------------|-----------------|---------|
| Autodesk Inventor | May 14 - 16 | \$1,095 |
| AutoCAD 2000 Advanced | May 17 - 18 | \$795 |
| AutoCAD 2000i Update from R14 | May 22 - 23 | \$695 |
| AutoCAD 2000i Update (Condensed) | May 24 | \$395 |
| AutoCAD Fundamentals | May 28 - June 1 | \$1,095 |
| AutoCAD Customization | June 4 - 5 | \$795 |
| AutoCAD 2000 3D Modeling | June 6 - 8 | \$1,095 |