

# New Product Announcement

## AutoSolids™ for AutoCAD®

### 3D solid Modeling in Standard AutoCAD

FOR IMMEDIATE RELEASE  
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- NEWS:** AutoSolids turns standard AutoCAD into a full-featured solid modeling application. AutoSolids is an ACIS®-enabled Object ARX® application that runs inside of AutoCAD, greatly enhancing the native 3D solid modeling, visualization, viewing, and coordinate systems.
- WHO USES:** Anyone wishing to do 3D solid modeling in AutoCAD.
- MAIN FEATURES AND BENEFITS:**
- Provides full-featured solid modeling in standard AutoCAD.
  - Enables direct editing of all solid parameters and operations in new and existing AutoCAD models.
  - Requires NO CONSTRAINTS to create or edit models or drawings.
  - Maintains 100% AutoCAD compatibility. No file conversions, ever.
  - Reduces modeling time by up to 90%.
  - Increases design and drafting accuracy.
- PRICE:** Personal license - \$995. Multi-user and site license pricing on request.
- AVAILABILITY:** Immediately
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Pace Florida – Varimetric Solutions, Inc.(VSI) announces the release of AutoSolids--a powerful Object ARX solid modeling application that runs within AutoCAD, AutoCAD Mechanical, and Mechanical Desktop. Both AutoCAD Release 14 and 2000-based versions are supported<sup>1</sup>. AutoSolids is an ACIS-enabled application that provides full-featured solid modeling without constraints. AutoSolids comes with 30 days free phone support and unlimited free email/fax support, all provided directly from VSI. A single workstation license retails for \$995, with multi-user and site license pricing available on request. A free working demonstration program and complete manual in .pdf format are available for download at [www.autosolids.com](http://www.autosolids.com).

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<sup>1</sup> AutoCAD 2000-based version support to be released 3<sup>rd</sup> quarter 2000.

## **Full-Featured 3D Solid Modeling in Standard AutoCAD**

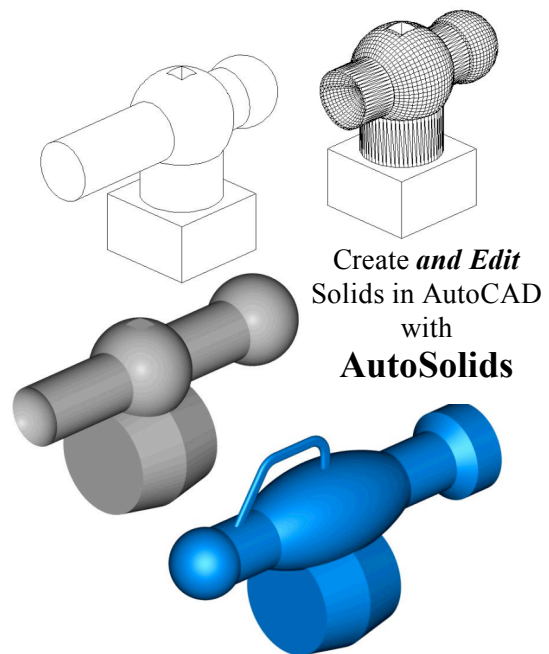
AutoSolids adds over 50 new solid modeling commands to AutoCAD with hundreds of options, resulting in unprecedented 3D capabilities while still working with standard AutoCAD. With a flexible interface and incomparable ease of use, existing 2D AutoCAD users will be able to quickly generate completely accurate 2D drawings from 3D solid models. Users already experienced with AutoCAD's native 3D commands will benefit greatly from new capabilities and power available only through AutoSolids.

## **New Capabilities Empower AutoCAD users**

AutoSolids provides many new modeling commands and options, such as bidirectional extrusions, continuous previewing during solid creation, etc., but the REAL power behind AutoSolids is its unique ability to completely edit

any parameter or operation previously specified during creation of the model. Without AutoSolids, AutoCAD discards all historical information used to create a solid. AutoSolids captures all data used to create the solid, allowing the user to EDIT the solid by changing the length, width, diameter, extrusion height, or any parameter originally used to define the solid. Primitive parameters are completely accessible even after the primitives have been unioned, subtracted, or intersected into composite solids. The original profiles and/or guide paths of extruded and

revolved primitives can be modified or even replaced by new geometry. Individual primitives that have already been combined with other primitives can now be resized, moved, rotated, deleted, or even replaced with entirely new primitives. Boolean operations (union, subtract, intersect), can now be retracted, either one step at a time or all operations at once. The ability to completely edit any model in the same way it was created eliminates the need to recreate models, reducing modeling and design time by up to 90%. AutoSolids brings standard AutoCAD's 3D capabilities into line with much more expensive 3D CAD systems while maintaining AutoCAD's legendary ease-of-use.



## ***Simple, Revolutionary Technology***

AutoSolids' innovative use of varimetric technology and construction-based modeling enables very high levels of functionality with simple, easy-to-use methodology. Unlike traditional parametric modelers, AutoSolids' *varimetric technology* completely eliminates the need to create constraints, dimensions, or any other extraneous entities to control or edit geometry, whether 2D or 3D. AutoSolids automatically captures all parameters used while creating the solid, and immediately presents those same parameters back to the user when the solid is selected for editing. Varimetrics allows direct user access to geometric properties, eliminating the time-consuming, redundant task of creating intermediate control entities. *Construction-based modeling* offers design freedom unmatched by any feature-based system. Rather than forcing the user to work in a restrictive, one-step-at-a-time fashion, construction-based modeling allows the user to create and combine single or multiple features in any order, providing true design freedom. Construction-based modeling allows each user to work in their own most-efficient manner, rather than forcing the user to follow rigid, inflexible rules.

## ***100% Compatibility with AutoCAD***

Because AutoSolids models are always stored as native AutoCAD solids, AutoSolids models NEVER have to be converted, exported, exploded, etc. to be used by AutoCAD users, with *or without* AutoSolids. Standard AutoCAD users can directly open and use AutoSolids models exactly the same as native AutoCAD models, and any of AutoCAD's native solid modeling commands can be used to further modify AutoSolids models. AutoSolids will also read and open any existing native AutoCAD solids. This means that *existing AutoCAD files never have to be converted for use with AutoSolids, and new files created in AutoSolids NEVER have to be converted for use in standard AutoCAD*. AutoSolids also accepts all of the standard AutoCAD import/export methods (ACIS, IGES, STL, etc.) for communicating with non-AutoCAD users.

## ***Flexible User Interface***

AutoSolids' *flexible user interface* includes customizable toolbars and pull-down menus, and the exclusive 3D Command Center allows instant access to ALL modeling, viewing, and visualization commands from one central location. More subtle options are also present, like the choice of command line or dialog driven interaction, the interchangeable use of radius and diameter parameters, and the ability to enter mathematical expressions directly into

dialog boxes. The AutoSolids interface is also consistent with standard AutoCAD commands, allowing existing AutoCAD users to be immediately productive with AutoSolids.

### **Major Benefits**

- Provides full-featured 3D solid modeling in standard AutoCAD
- Allows for automatic creation of 2D drawings from 3D models
- Faster and more accurate than standard 2D or 3D design processes
- Allows for parametric editing of solid models in standard AutoCAD
- Easy to learn and use – intuitive to standard AutoCAD command structures
- 100% compatible with AutoCAD, and Mechanical DeskTop. AutoCAD 14 versions available immediately, AutoCAD 2000 version available 3<sup>rd</sup> quarter 2000.

### **System Requirements**

SOFTWARE REQUIREMENTS  
(Any of the following):

AutoCAD 14.01  
AutoCAD Mechanical 14.5  
Mechanical Desktop 2.x/3.x  
AutoCAD 2000 (available 3<sup>rd</sup> quarter 2000)  
AutoCAD Mechanical 2000 (available 3<sup>rd</sup> quarter 2000)  
Mechanical DeskTop 4(available 3<sup>rd</sup> quarter 2000)

HARDWARE REQUIREMENTS: Same as for the above software.

### **Company History**

Varimetric Solutions, Inc. was established in 1999 specifically to develop and distribute mechanical computer aided design applications. The key operations and development managers associated with Varametric Solutions, Inc. bring together over 25 years combined experience in design, development and use of mechanical CAD and MCAD applications. AutoSolids is the first product released by Varimetric Solutions, Inc.

### **Editor Note:**

A .jpg image is included with this press release. If you would like additional images, or require higher resolution or a different format please contact Nick Vasilieff at [nickv@thirdpartyintl.com](mailto:nickv@thirdpartyintl.com)

### **PRODUCT REVIEWS**

*If you are interested in reviewing AutoSolids please contact Nick Vasilieff at [nickv@thirdpartyintl.com](mailto:nickv@thirdpartyintl.com), or 503-230-7938*

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