

AutoCAD®  
2010

# Features & Benefits

For the people who shape everything around us, AutoCAD® 2010 software delivers the power and flexibility needed to take documentation and design further.

Design and shape the world around you with the powerful, flexible features found in AutoCAD software, one of the worlds leading 2D and 3D design software solutions. Speed documentation, share concepts, and explore ideas more intuitively in 3D. With thousands of available add-ons, AutoCAD provides the ultimate in flexibility, customized for your specific needs. It's time to take design further. It's time for AutoCAD.

## Key Features and Benefits

### Document

AutoCAD is synonymous with documentation for good reason. Drive your projects from concept to completion with the powerful documentation tools in AutoCAD. Work faster with automation, management, and editing tools that minimize repetitive tasks and speed your time to completion. No matter your project's size or scope, y AutoCAD can help you meet the challenge with AutoCAD—continuously leading and innovating documentation for over 25 years.

### Communicate

With AutoCAD, communication is a seamless operation. Share critical design data securely, efficiently, and accurately with AutoCAD. Experience the benefits of native DWG™ support, the worlds most widely used design data format, allowing you to keep everyone in the loop at all times. Take your ideas to the next level with presentation-ready graphics, rendering tools, and some of the best plotting and 3D printing capabilities in the business. It's communication at its best.

### Explore

AutoCAD gives you 3D power to explore your ideas in almost any shape imaginable. AutoCAD and a blank canvas have a lot in common. Both give you the ability to create the previously unimaginable. But AutoCAD provides the flexibility to explore design ideas in both 2D and 3D, with intuitive tools that help your concepts become real. The world is your canvas—what will you create next?

### Customize

Customize and configure AutoCAD in ways you never thought possible. Your job is unique. Your software should be as well. Customizing AutoCAD to meet your unique needs is easier than you ever thought possible. Configure your settings, extend the software, build custom workflows, develop your own application or leverage one already built. Some think you have to choose between flexibility and power. With AutoCAD, you can have both.

## Document

### Feature

#### Parametric Drawing

### Benefit

Dramatically slash your design revision time with parametric drawing. By defining persistent relationships between objects, parallel lines remain parallel and concentric circles remain centered, all automatically.

#### Sheet Sets

Organization isn't a luxury. The AutoCAD Sheet Set Manager organizes your drawing sheets, reduces steps to publish, automatically creates layout views, links sheet set information into title blocks and plot stamps, and performs tasks across a sheet set so everything is in one convenient place.

#### Annotation Scaling

Spend less time creating and managing multiple items across multiple layers. With annotation scaling tools, you can create a single annotative-type object that automatically resizes to reflect the current viewport or model-space scale.

#### Text Editing

Now you can easily manipulate text by viewing, sizing, and positioning text as you type. Adjust the text's appearance as needed using familiar tools common in text-editing applications, including paragraph and column tools to achieve professional-quality formatting.

#### Multiple Leaders

With multileader tools, creating and editing leaders is a breeze. Define multileader styles to provide consistency across leaders, add multiple leader lines to a single leader object, and even include bubbles or blocks as leader content.

#### Tables

Increase your productivity by automating the tedious task of creating and maintaining tables. You can define table styles to easily apply consistent table formatting including fonts, colors, borders, and much more.

#### Data Extraction

Quickly and easily extract property data from objects in drawings (including blocks and attributes) and drawing information with the Data Extraction wizard. The extracted data can then be automatically output to a table or an external file.

#### Data Linking

Easily link Microsoft® Office Excel® data to your AutoCAD designs for consistency and efficiency. Data links can be updated in both directions, reducing the need to update tables or external spreadsheets independently. All linked information can easily be kept current and in sync automatically.

#### Dynamic Blocks

Save time and standardize drawings with ease. With Dynamic Blocks, you no longer have to redraw repetitive standard components, and you can reduce your cumbersome block libraries in the process. Dynamic Blocks make individual block geometry editable and reduce the need to define a new block for every variation of shape and size.

#### Layer Management

Create and edit layer properties faster, and reduce errors at the same time. With the Layer Dialog box, changes are instantly reflected in the drawing as they are made in the dialog.

#### Prompts and Editing

Focus on the design, not the tools. Dynamic Input displays a command line type of prompt right at the cursor so you can launch commands, view dimensions, and enter values without even having to look at the command line. With the Quick Properties menu you can dramatically save time by viewing and modifying relevant object properties right at your cursor.

#### Efficient User Interface

Working with several files doesn't have to be painful anymore. The Quick View feature uses thumbnails in addition to file names, so you can visually find and open the correct drawing file and layout even faster than before. Within the Menu Browser you can also quickly browse files, examine thumbnail images, and get detailed information about file size and file creator.

## Communicate

### Feature

DWG

### Benefit

Save and share files with confidence. DWG technology from Autodesk is the genuine and one of the most accurate ways to store and share design data when working with anyone in the industry.

PDF Integration

Sharing and reusing designs has never been easier in AutoCAD thanks to a long list of upgrades made in the name of streamlined communication. Publish PDF files directly from AutoCAD drawings and attach and snap to PDF files as underlays.

Autodesk Design Review

With built-in tools to publish and import DWF™ files within AutoCAD, collaborating on projects is more seamless than ever. Autodesk® Design Review software is the free, integrated, digital solution for clients or vendors to view, print, and mark up designs without needing the original software.

Autodesk Impression 3  
(Available to subscription customers only)

Supercharge your design presentations with a hand-drawn look. Autodesk® Impression software lets you create compelling presentation-ready graphics directly from your DWG and DWF files.

Photo-realistic Rendering

With the latest in rendering technology, you can create stunning models in less time. Capabilities include a slider control that graphically displays the trade-off between time and rendering quality.

3D Printing

Do more than just visualize your designs—make them real. Your design can now sit in the palm of your hand with your 3D printer or through a connected service provider.

ShowMotion

With ShowMotion® technology, you have the power to create camera animations to navigate through your design. The ShowMotion control panel displays thumbnail images of the view categories and view shots saved in the drawing.

## Explore

### Feature

Free-Form Design

### Benefit

You now have the power to design ideas in almost any form you can imagine. Simply push/ pull faces, edges, and vertices to model complex shapes, add smooth surfaces, and much more.

Solid and Surface Modeling

Shape your ideas in 3D just like you have in 2D. With an easy-to-learn environment for creating both solids and surfaces, you can now create and edit 3D shapes with the familiarity of 2D tools.

Visualization

Visualize your ideas like never before. Choose from over 300 materials, apply photometric lighting, and control the display to create highly accurate, photo-realistic rendered images.

3D Navigation

Walk or fly through a model with the click of a button. Quickly rotate and orient any solid or surface model with the ViewCube® tool, or pan, center, and zoom on any object with the SteeringWheels® tool.

## Customize

### Feature

Programming Interface

### Benefit

Take advantage of our flexible development platform to boost your productivity. With direct access to database structures, the graphics system, and native command definitions, you can specialize design and drafting applications to perfectly fit your needs.

**Action Recorder**

Save time and increase productivity by automating repetitive tasks without requiring the assistance of a CAD manager. Now you can record tasks, add text messages, and request user input, then quickly select and play back recorded macros.

**Autodesk Partner  
Products and  
Services**

Get the most out of thousands of Autodesk's software partners from around the world. These partners can further enhance your software with a broad range of fully integrated and interoperable solutions no matter what you're designing.

**Autodesk Developer  
Network**

If you're creating innovative software built on AutoCAD, you'll want to join the Autodesk® Developer Network. Training and support enables your software or plug-in to tightly integrate with your workflow with the latest AutoCAD release.

**Ribbon User Interface**

Pump up overall drafting productivity with the ribbon interface. The ribbon is both easily customizable and expandable so that it can be optimized for each user and can help meet each company's standards.

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