

AutoCAD Mechanical 2004

Intelligent Mechanical Engineering and Design

- 2D Structure creates an intuitive design environment that eliminates stale data. With flexible folders for component and assembly views, you can simplify your design organization, capture design intent accurately, and significantly reduce detailing and editing time.
- Browser implementation provides a highly visual interface for drawing structure that helps you organize and reuse your 2D data quickly and intelligently. Navigate to any browser item with common functions such as Highlighting, Zoom to, Properties, and Visibility; and Creating, Deleting, and Inserting instances.
- 2D Hide performs hidden-line calculations and makes it even easier to clarify design intent and reduce manufacturing errors. Automated design capture of orthographic projections, section cuts, and detail views reduces manual intervention, saves time, and expedites assembly design.
- Engineering tools calculate resistance capability, moment of inertia, and beam deflection so you can optimize designs before they are built and reduce risk more effectively. Shaft, bearing, and screw calculations are generated based on loads and requirements that significantly reduce time and give you greater confidence in your design.
- Machinery systems generator tools make shafts, springs, drive systems, and cams faster to design and incorporate, which automates tasks, saves time, and reduces the chances of rework.

Standards-Based 2D Content

- Screw Connections builds entire fastener assemblies and saves countless hours of design and rework. Create and track standard fastening hardware in the BOM database to generate accurate parts lists.
- Standard Parts offers more than 700,000 predrawn screws, nuts, washers, rivets, bearings, and others; more than 8,000 holes; and more than 100,000 features including undercuts, keyways, and thread ends for dramatically faster drawing creation. Automatic parts-tracking through the browser and BOM database gives you simplified and accurate data management.

- Standard Structural Steel Shapes can incorporate more than 11,000 predrawn shapes into any design, and helps eliminate interferences and reduce cycle time.

Associative Production Drawing

- Associative drawing features update changes instantly throughout your design, making change management easy and accurate with fewer errors and improved workflow. User-defined components, assemblies, and standard parts are dynamically tracked throughout multiple instancing so you can eliminate manual changes and enhance design productivity.
- 2D Hide integrates fully and associatively with 2D structure and performs auto-healing of geometry to expedite and manage assembly design more effectively.
- Bill of Material and Balloon tools create parts lists quickly and accurately while shortening critical design time. A live BOM database automatically ensures that your part count is synchronized with your design.
- Dimensioning tools make adding, deleting, and editing dimensions on parts and assemblies easy and quick to ensure data accuracy.
- Annotation commands create standard surface texture, GD&T, targets, and weld symbols to accelerate your design productivity.

System Requirements

- Intel® Pentium® III or AMD Athlon™-based PC with 500 MHz processor or faster (later-generation Intel or AMD processor recommended)
- Microsoft® Windows® XP Professional or Home Edition, Windows 2000 (SP1 or later), or Windows NT® 4 (SP6a or later)
- 128 MB RAM minimum (384 MB or more highly recommended)
- 1024x768 16-bit high color display or greater
- Microsoft® Internet Explorer 6 or later

Note: Less capable machines (such as those described in the minimum requirements category) can run AutoCAD

Mechanical 2004, but the results will be less than ideal. The use of additional memory and faster processors will directly improve performance and capacity, and is highly recommended for design work entailing the use of AutoCAD Mechanical design and engineering functionality, such as 2D structure, associative 2D hide, standard parts, calculations, and machinery system generators (shaft, chain/belt drive systems, and so on).

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For more information visit www.autodesk.com/acadmech.

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