SolidWorks 2003 Overview

THE STANDARD IN 3D MODELING SOFTWARE

Get to market faster with SolidWorks® 2003 software, the standard in 3D modeling software. Innovative, yet proven, SolidWorks offers the most time-saving capabilities of any product design software available. No other CAD system allows you to get product design work done as quickly and accurately.

Work faster through unrivaled performance and ease-of-use, including familiar Windows® functions like drag-and-drop, point-and-click, and cut-and-paste. With SolidWorks 2003 software, design data is 100% editable, and relationships between parts, assemblies, and drawings always stay up-to-date.

Design analysis. Analyze design integrity easily with COSMOSXpress™, the first and only built-in analysis tool for testing part designs quickly and easily within 3D modeling software.

2D-to-3D transition tools. Create 3D models from existing 2D data with the best available transition tools, including help documentation for AutoCAD® users, the ability to drag 2D drawings into SolidWorks drawings, support for reusable 2D geometry including external references (xrefs), and view folding, a tool that lets you build 3D models more easily from DWG data.

Design communication. Enjoy unmatched design communication capabilities, including eDrawings, the first email-enabled communication tool that dramatically eases sharing of 2D and 3D product design information and provides support for multiple part and assembly configurations.

Online access to ready-made components. Save time with 3D Content Central℠, the first and only built-in web resource that supplies 3D modeling software users with built-in access to ready-made components via leading online catalogs.

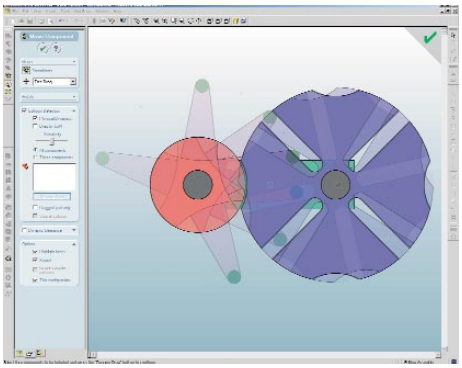
"Heads up" user interaction. Minimize visual clutter with a full range of user interface innovations such as the unique PropertyManager, which puts design properties and parameters within easy reach.

Configuration Management. Configuration Management is a unique part of the SolidWorks software architecture that encompasses parts, assemblies, and drawings and how they work together. Simplify design reuse and iterations by creating multiple design variations of a part or assembly model within a single document.

- Gain control and flexibility with top-down and nested configurations that allow you to view "what if" design variations and distinguish easily between these views and design changes.

Assembly modeling. Gain unparalleled performance for designing large assemblies of 10,000 parts and more. Reference other parts directly and maintain relationships when creating new parts. Design and change components easily from within the assembly.

- Simulate true motion and mechanical interaction between solids with unique physical simulation capabilities.
- Simplify repetitive tasks with Smart Part Technology, an innovation that automates assembly tasks such as selecting and inserting standard bolts into holes and adding washers and nuts in the correct sequence.



Check assembly designs with unique, built-in physical simulation capabilities that allow you to study part and assembly movements and avoid potential design flaws.

SolidWorks

- Design faster with mirrored components which provide the ability to create new parts and assemblies based on existing design symmetry.
- Speed assembly design with snap-to-fit SmartMates, locate conflicting mate relationships easily with unique Mate Diagnostics, and repair entities easily.

Detailing. SolidWorks 2003 offers the detailing tools you need to generate complete, production-ready engineering drawings effortlessly. Construct fully associative drawings – drawing views and bills of materials update automatically each time that you modify the part or assembly design.

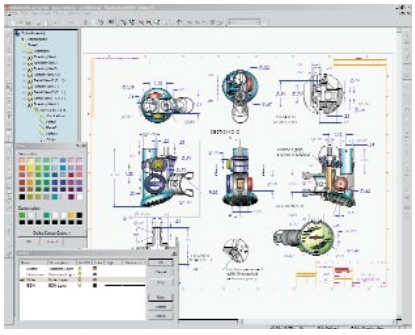
- Generate drawings automatically from 3D models, including views, dimensions, and annotations.
- Save time with predefined drawing views.
- Work on drawings separately from parts and assemblies while maintaining full associativity between parts in an assembly with the unique RapidDraft capability.
- Show various design positions easily using Alternate Position View, a special drawing function for documenting assembly motion.

Part modeling. SolidWorks 2003 gives you unparalleled feature-based part modeling capabilities. Create designs easily with extrudes, revolves, thin features, advanced shelling, feature patterns, and holes.

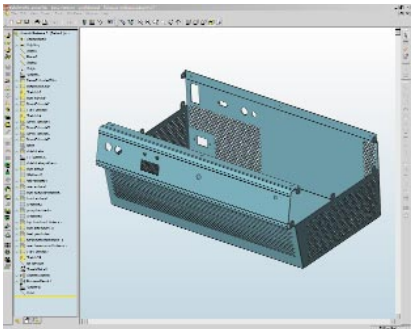
- Speed part modeling with unique, feature-level control over multiple bodies.
- Make real-time design changes with drag-and-drop ease through dynamic editing of features and sketches.

Surfacing. Generate complex surfaces using lofts and sweeps with guide curves, fill-in holes, and drag-handles for easy tangency control. Trim, extend, fillet, and knit together surfaces intuitively. Scale and pattern surfaces. Translate, rotate, copy, and mirror surfaces for easier manipulation.

Sheet metal. Get best-in-class, fully associative sheetmetal capabilities for designing a full range of flanges, tabs, lofted bends, flat patterns, normal cuts, corner treatments, rip edges, hems, and jogs.



Create production-level drawings, complete with component layers, colors, and automatic bills of materials.



Save time with best-in-class sheetmetal functions.

Help. SolidWorks 2003 has an HTML-based help system, complete with hyperlinks and animations, online tutorials, a design portfolio with how-to instructions, and a glossary.

Data exchange. SolidWorks 2003 provides file translators to and from nearly all mechanical CAD products on the market today.

- CGR (CATIA® graphics)
- HCG (CATIA highly compressed graphics)
- Pro/ENGINEER®
- IPT (Autodesk Inventor®)
- Mechanical Desktop®
- Unigraphics®
- PAR (Solid Edge®)
- CADKEY®
- IGES
- STEP
- Parasolid®
- SAT (ACIS®)
- VDA-FS
- VRML
- STL
- DWG
- DXF™
- TIFF
- JPG
- Viewpoint
- RealityWave
- HSF (Hoops)

Supported standards

- ANSI
- ISO
- JIS
- BSI
- DIN
- GOST
- GB

Local language support

- Chinese
- English
- French
- German
- Italian
- Japanese
- Korean
- Polish
- Russian
- Spanish

System requirements

- Microsoft® Windows XP Professional or Windows 2000 recommended; also runs on Windows NT®, Windows Me, or Windows 98 Second Edition
- Intel Pentium®- or AMD Athlon™-class processor
- 128 MB RAM or greater (512 MB to 1 GB or greater recommended for assemblies exceeding 1000 parts)
- Pointing device
- CD-ROM drive
- Microsoft Office XP, Microsoft Office 2000, or Microsoft Office 97 recommended
- Internet Explorer version 5.5 or later recommended

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