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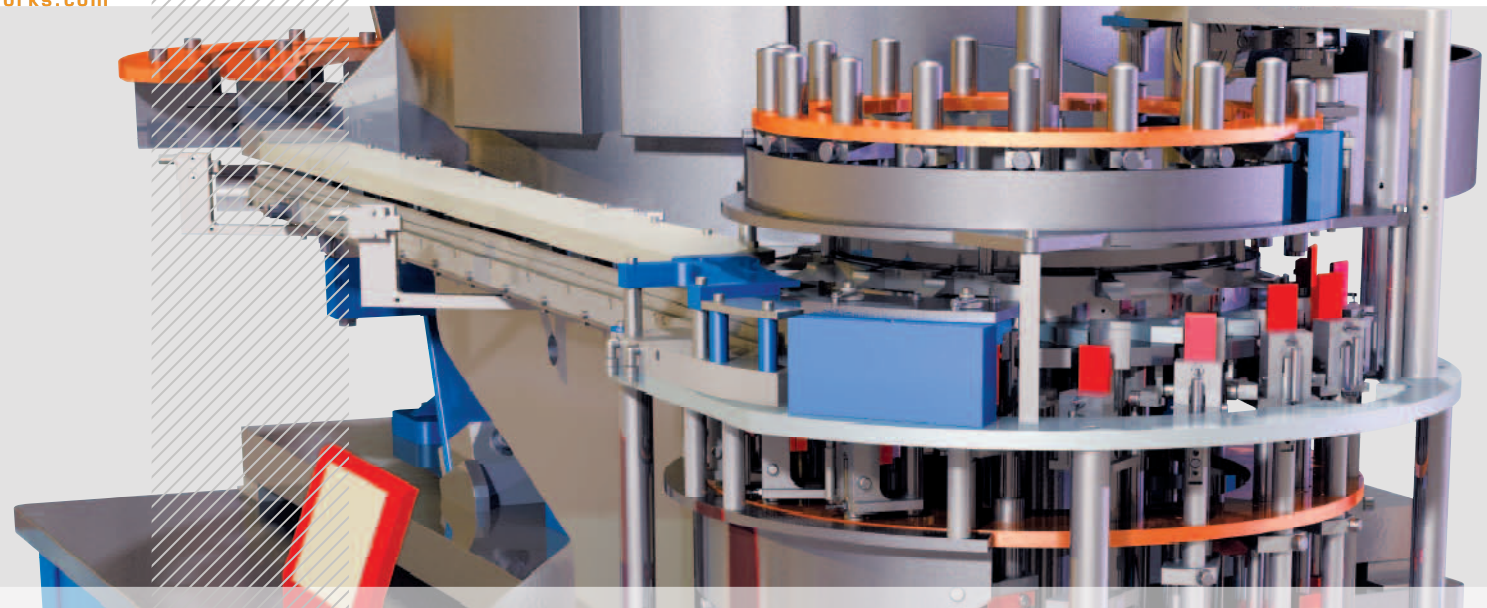
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SolidWorks® Office Premium

Aerosol Valve Assembly Machine,
Haumiller Engineering Company

DS SolidWorks

MKSOPROBROENG0806

SolidWorks Office Premium

SOLIDWORKS® OFFICE PREMIUM IS THE COMPLETE 3D CAD SOLUTION, PROVIDING YOUR PRODUCT DESIGN TEAM WITH ALL THE DESIGN ENGINEERING, DATA MANAGEMENT, AND COMMUNICATION TOOLS THEY NEED IN ONE AFFORDABLE PACKAGE.
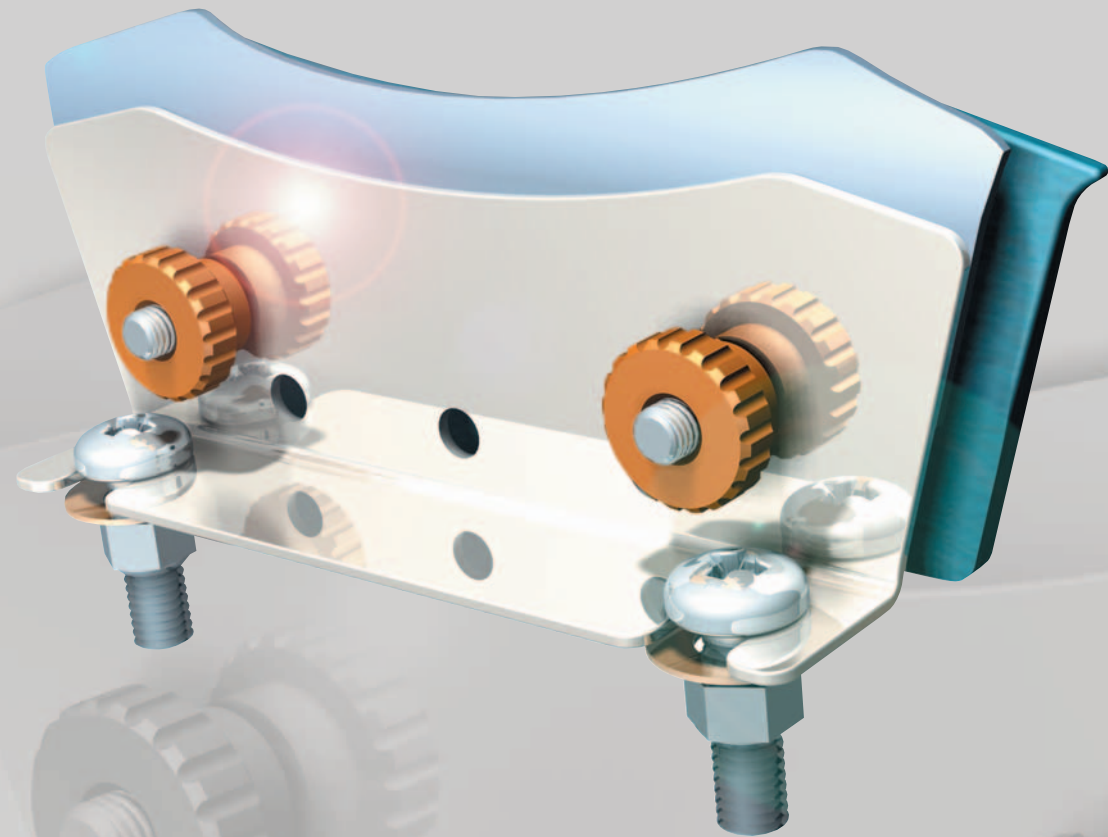
SolidWorks 3D CAD software

SolidWorks 3D CAD software is intuitive and enables you to develop better products by allowing your design team to work smarter and faster. Each release of the software delivers leadership innovations and hundreds of customer-requested enhancements that give your organization a competitive edge.

COSMOS® design analysis software

COSMOSXpress™ – Test part designs quickly and easily with a built-in, point-and-click stress analysis wizard.

COSMOSWorks® Designer – Improve product quality and safety by testing 3D CAD models under real-world conditions with design analysis software created for nonspecialists.

COSMOSMotion™ – Enhance design quality and accuracy with virtual prototyping software that allows you to easily simulate motion.

PDMWorks Workgroup software

The PDMWorks® Workgroup solution is easy to set up and use, allowing your design team to control CAD file revisions and manage all project data more securely and efficiently.

SolidWorks Routing software

SolidWorks Routing software automates the design of all types of piping, tubing, and electrical cabling systems. It also includes a library of special fittings for routed systems, plus harnessing documentation capabilities that further ease the design of electronic subsystems.

Design communication tools

eDrawings® Professional – Simplify the review of product designs with accurate, email-enabled representations of models and drawings that others can efficiently view, mark up, and measure.

Rendering, animation, and web-publishing software – Share design concepts more effectively with rendering software for creating photorealistic images, easy-to-use animation software, and a single-click web-publishing tool.

Ready-made parts and components

3D ContentCentral® – Access the online catalogs of leading part and component suppliers that let you view, configure, and download CAD files.

Library of standard parts – Reduce effort with a library of Smart Parts that enable you to automatically select appropriate fasteners and assemble them in the proper sequence.

CAD productivity enhancements

SolidWorks productivity aides – Save time with software utilities that let you easily:

- Find the differences between two versions of the same part.
- Reduce time required to rebuild models created with other software programs.
- Check designs to ensure adherence to company standards.
- Schedule resource-intensive tasks after hours or during breaks.

ScanTo3D – Import into your designs reverse-engineered models that you can create quickly using the affordable NextEngine Desktop 3D Scanner.

Image of End Seal for Flexographic Chamber courtesy of Design AT

SolidWorks Software

SolidWorks 3D CAD software is intuitive and enables you to develop better products by allowing your design team to work smarter and faster. Every release of the software delivers leadership innovations and hundreds of customer-requested enhancements, giving your organization a competitive edge.

Ease of use

Reduce design steps through dozens of timesaving innovations. Lessen visual clutter and minimize fatigue with Heads-up User Interaction, a set of intuitive display and control functions.

2D and 3D data integration

DWGeditor™ – Edit and maintain DWG files in their native format with DWGeditor, an editing tool that provides an interface familiar to AutoCAD® users.

Productivity enhancements – Take advantage of the best available tools for convert-ing 2D data to 3D, revising 2D geometry, and enabling smooth adoption of 3D CAD technology, including extensive Help documentation for AutoCAD users.

Unique capabilities

SolidWorks Intelligent Feature Technology (SWIFT™) – Simplify the design process with the first technology that puts expert-level techniques for 3D CAD's most challenging design operations in the hands of every user. For example, SWIFT allows you to properly order part features such as drafts and fillets automatically.

Built-in part analysis – Confirm design integrity and lower cost of materials with COSMOSXpress, a point-and-click stress analysis wizard that lets anyone test part designs quickly and easily.

Design Communication – Share design concepts easily with eDrawings, the first email-enabled tool that dramatically eases product design communication. Simplify sharing of design concepts beyond engineering and manufacturing workgroups by circulating SolidWorks 3D designs as Adobe® PDF documents.
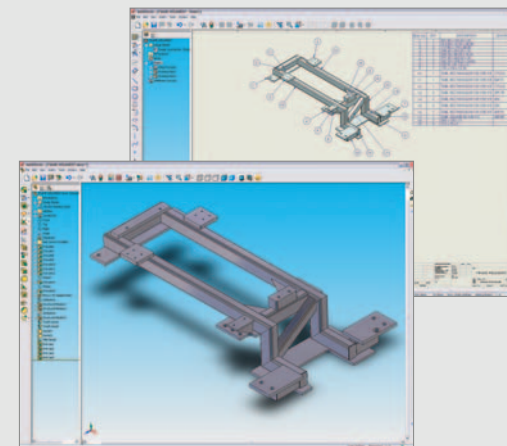
Machine design tools – Make use of a full set of weldment design, analysis, and documentation tools. Get best-in-class, fully associative sheet-metal capabilities that allow you to move rapidly from the design phase to final manufacturing draw-ings. Save time with a library of machine design features.

Mold design tools – Automate the creation of cores and cavities with built-in mold design tools. Use MoldflowXpress, a wizard-based design validation tool, for quickly and easily testing the manufacturability of plastic injection-molded parts.

Consumer product design tools – Speed design of consumer products with enhanced tools for creating and manipulating high grade surfaces easily.

Universal search capabilities – Quickly find all SolidWorks files, whether stored locally or on a shared network.

Online access to ready-made components – Save time with 3D ContentCentral, a web resource that provides CAD files for components from leading suppliers.

Improve machine design with built-in capabili-ties, including a full set of weldment design and documentation tools. **ABOVE**

Speed the design of consumer products with enhanced tools for manipulating surfaces easily and intuitively. **RIGHT**

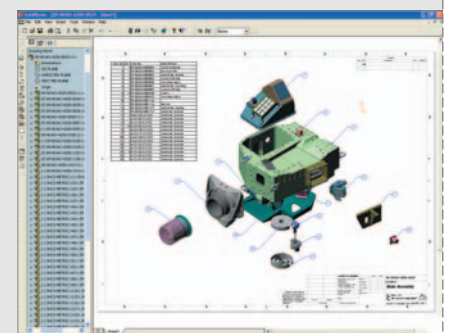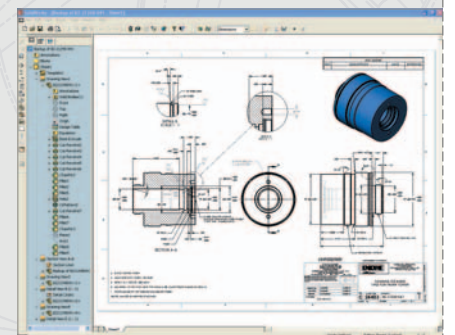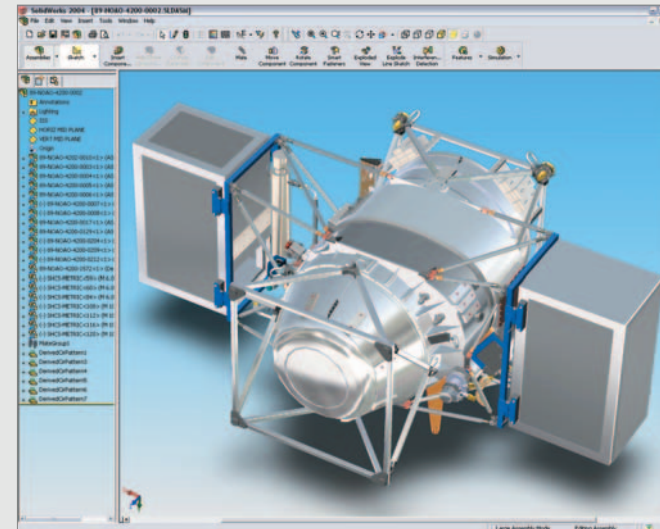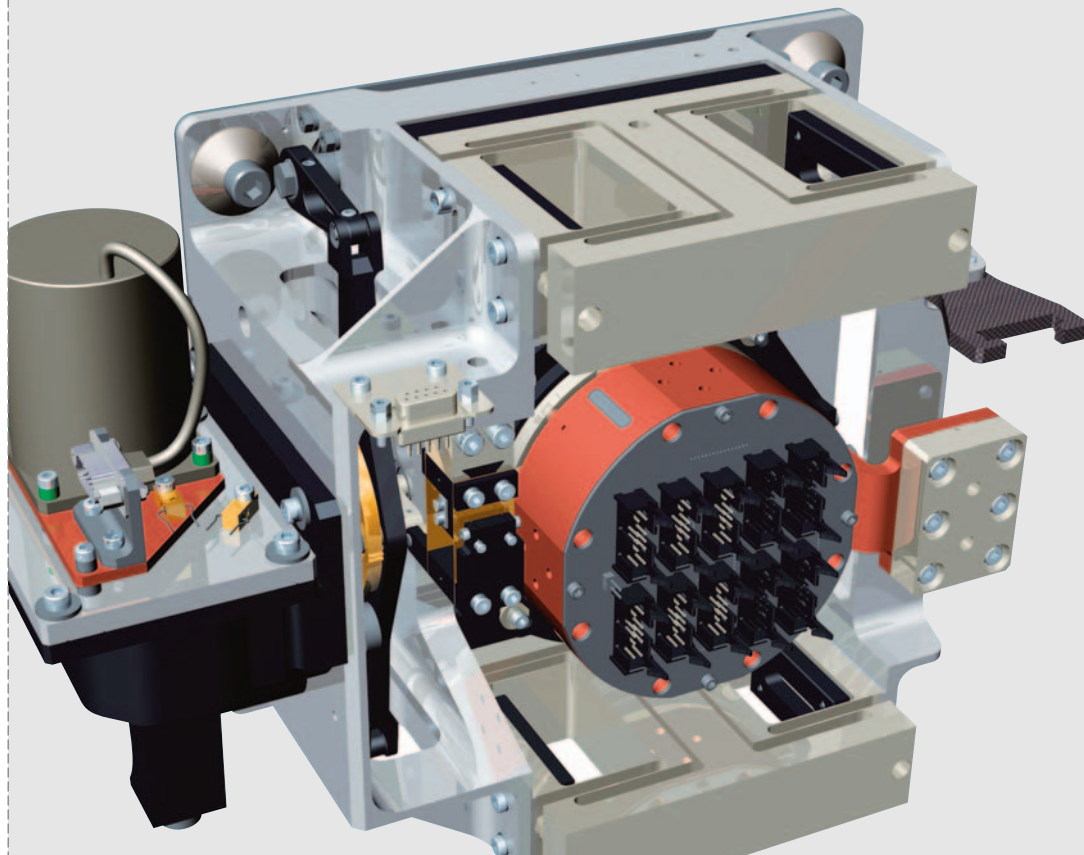Image of Handheld GPS System courtesy of Garmin International, Inc.

SolidWorks Software

Best-in-class 3D CAD functions

Part modeling – Create designs easily with extrudes, revolves, thin features, advanced shelling, area fill patterns, and holes using feature-based part modeling capabilities. Speed part modeling with feature-level control over multiple bodies. Make real-time design changes through dynamic editing of features and sketches.

Assembly modeling – Reference other parts directly and maintain relationships when creating new parts. Gain unmatched performance for designing large assemblies with tens of thousands of parts. Work faster in Lightweight mode without sacrificing design and detailing capabilities. Drag and drop parts and features into place.

2D drawing – Develop production-ready engineering drawings without drawing a single line or arc. Construct fully associative drawings - drawing views and bills of materials update each time that you modify the part or assembly design. Automatically create multiple views with complete, accurate dimensions.

Surfacing – Capture and modify design intent with advanced 3D sketching capabilities. Use the Freeform surfacing tool to "push and pull" control points and easily create stylish, continuous surfaces. Generate complex surfaces using lofts and sweeps with guide curves, drag-handles for easy tangency control, and an innovative Fill feature. Trim, extend, fillet, and knit together surfaces intuitively.

Images at left and above courtesy of National Optical Astronomy Observatory, operated by the Association of Universities for Research in Astronomy, under cooperative agreement with the National Science Foundation

COSMOS Software

POWERFUL, EASY-TO-USE ANALYSIS AND
SIMULATION SOFTWARE

COSMOS software enables all designers and engineers to improve product quality and safety by testing 3D CAD models under real-world conditions prior to manufacture. The COSMOS software modules included with SolidWorks Office Premium are easy for product designers from all disciplines to learn and use, while providing powerful capabilities that reduce the need for physical prototypes.
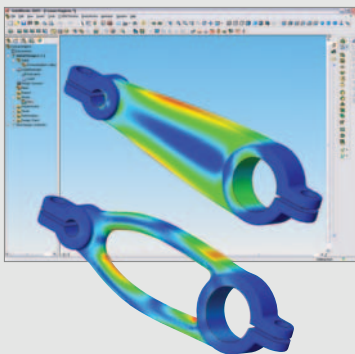
COSMOSXpress

• Perform a first-pass design test on simple parts
• Simulate the effect of force or pressure loads
• Share results with HTML reports or eDrawings files

COSMOSXpress is a point-and-click stress analysis wizard for testing part designs quickly and easily. Built into SolidWorks 3D CAD software, COSMOSXpress simulates the effect of force or pressure loads on simple parts. COSMOSXpress provides a step-by-step guide for designers with no previous experience with analysis or simulation software.

COSMOSMotion

• Make sure your designs will work before you build them
• Understand assembly performance in detail
• Explore more design alternatives quickly

COSMOSMotion is physics-based motion simulation software that allows you to improve product designs such as those with motorized assemblies. By allowing you to study behavior data like contact forces and friction, COSMOSMotion lets you test and refine your designs early in the design cycle. Whether you are sizing motors and actuators, determining power consumption, developing cams, or improving gear drives, COSMOSMotion makes it easier to explore more design alternatives quickly.

COSMOSWorks Designer

COSMOSWorks Designer is the first powerful design analysis software created for nonspecialists. It allows you to improve product quality by identifying areas prone to weakness and failure. Tightly integrated with SolidWorks software, COSMOSWorks Designer allows you to update all design changes automatically and become immediately productive using familiar Windows® functions and commands.
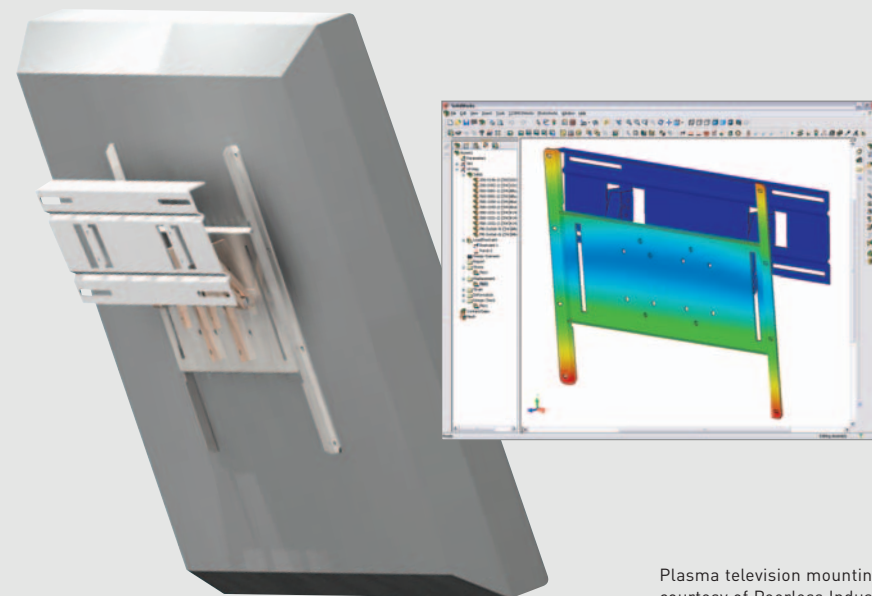
Part and assembly analysis – Compare multiple alternative configurations easily by studying stress, strain, and displacement for both parts and assemblies.

Automation of analysis – Automate meshing of parts and assemblies. Create and clone analysis studies quickly and easily with simple drag-and-drop functions. Compare multiple designs automatically using the Design Scenario tool.

Simulation of real-world conditions – Apply known displacements and a variety of loads and restraints, including forces and pressures, torque, bearing loads, and fixed or directional restraints. Simulate the effects of gravity and centrifugal forces.

Tools for visualizing results – Interpret validation results with a full range of powerful, intuitive visualization tools, offering valuable insights that help you evaluate design alternatives more quickly and easily.

Communication capabilities – Generate customizable HTML reports with a single mouse click. Publish and share eDrawings files containing results visualization. Save results plots in standard formats, such as VRML, XGL, bitmaps, and JPEG.

Plasma television mounting bracket images courtesy of Peerless Industries
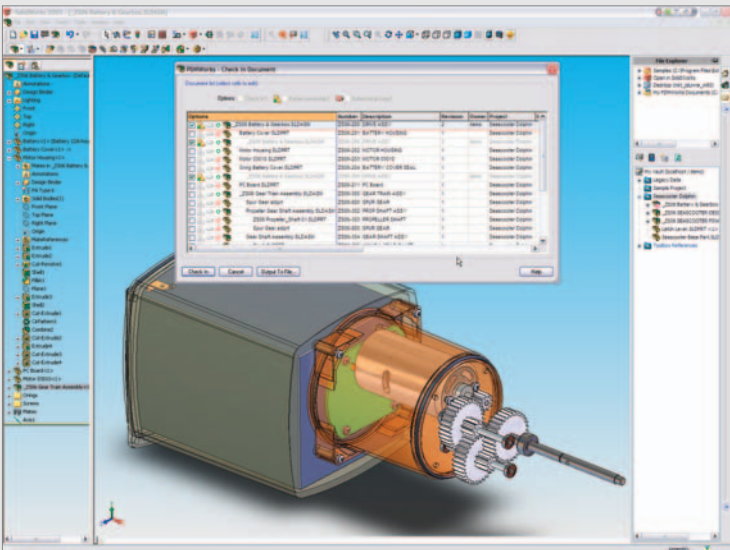
PDMWorks Workgroup Software

PDMWorks Workgroup is a proven product data management (PDM) solution that is uniquely suited to the requirements of SolidWorks engineering workgroups. Unlike enterprise PDM solutions, which can require considerable planning effort to implement effectively, PDMWorks Workgroup is easy to set up and use, allowing your design team to control CAD file revisions and to manage all project data more efficiently.

Unique capabilities

Simple interface – Maximize productivity with a simple set of visual cues as well as intuitive drag-and-drop and right-mouse-click capabilities optimized for the SolidWorks design environment.

Easy setup – Become immediately more productive with minimal technical support and virtually no customization effort. Installing and configuring the software typically takes less than two hours.
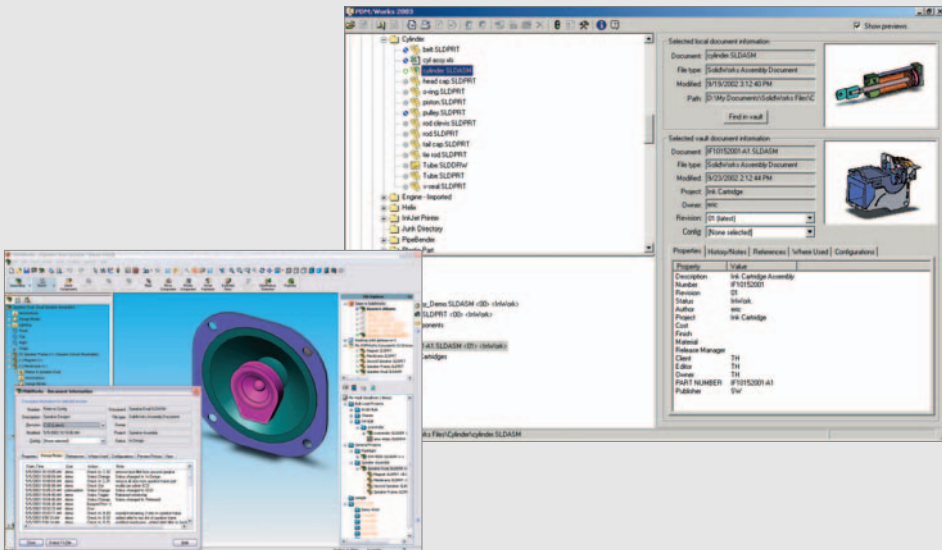
Best-in-class workgroup PDM functions

Data management – Manage documents and data more efficiently, including properties such as description, status, number, and costs. Make changes simply by selecting items and keying in updated values, automatically updating all associated bills of materials and reports.

Revision control – Avoid the accidental overwriting of files and time spent working on incorrect files by providing controlled access to all project files.

File histories – Capture file histories automatically, allowing your product design team to access the desired files, determine who has worked on them, and see exactly when changes were made.

Secure vaulting – Gain an additional level of security with easy-to-use administrative controls. Unlike common network or local folders, the PDMWorks vault protects your design information from unauthorized access as well as accidental overwrites and deletions.

Reuse of product design data – Use fast search capabilities to access content easily and reuse previously developed design work more efficiently, reducing duplicated efforts.
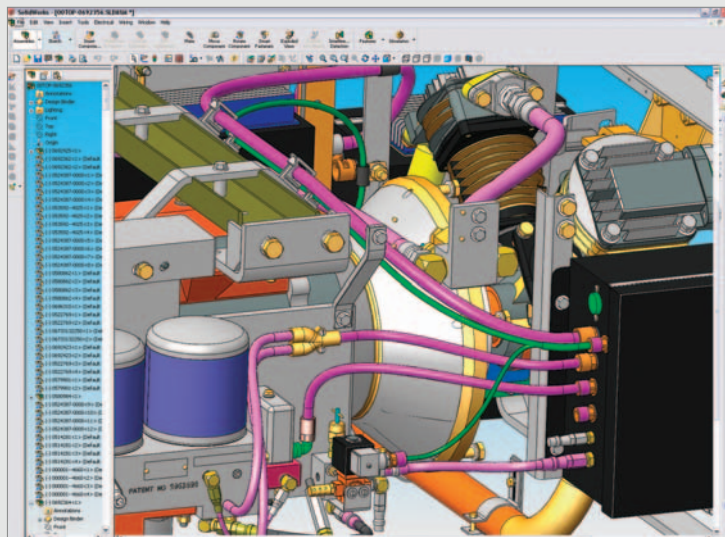
SolidWorks Routing Software

SolidWorks Routing software automates and simplifies the design of all types of piping, tubing, and electrical cabling systems. In addition, for designers that need to detail electrical cable and harness routes for manufacturing, SolidWorks Routing offers harness documentation capabilities that further enhance productivity in the design of electrical subsystems.

Ease of use

Intuitive creation of routed systems – Speed the creation of piping, tubing, and electrical cabling and harnessing systems. Streamline the design process with drag-and-drop placement, automatic sizing, auto-routing, copying and mirroring, and auto-insertion of components. Generate routes in the context of assemblies to ensure accuracy.

Best-in-class routing design functions

Easy editing of routed systems – Edit route segments easily using dynamic drag-and-drop functions. Insert a standard or custom component into a route by selecting and dragging it to the correct location within the design.
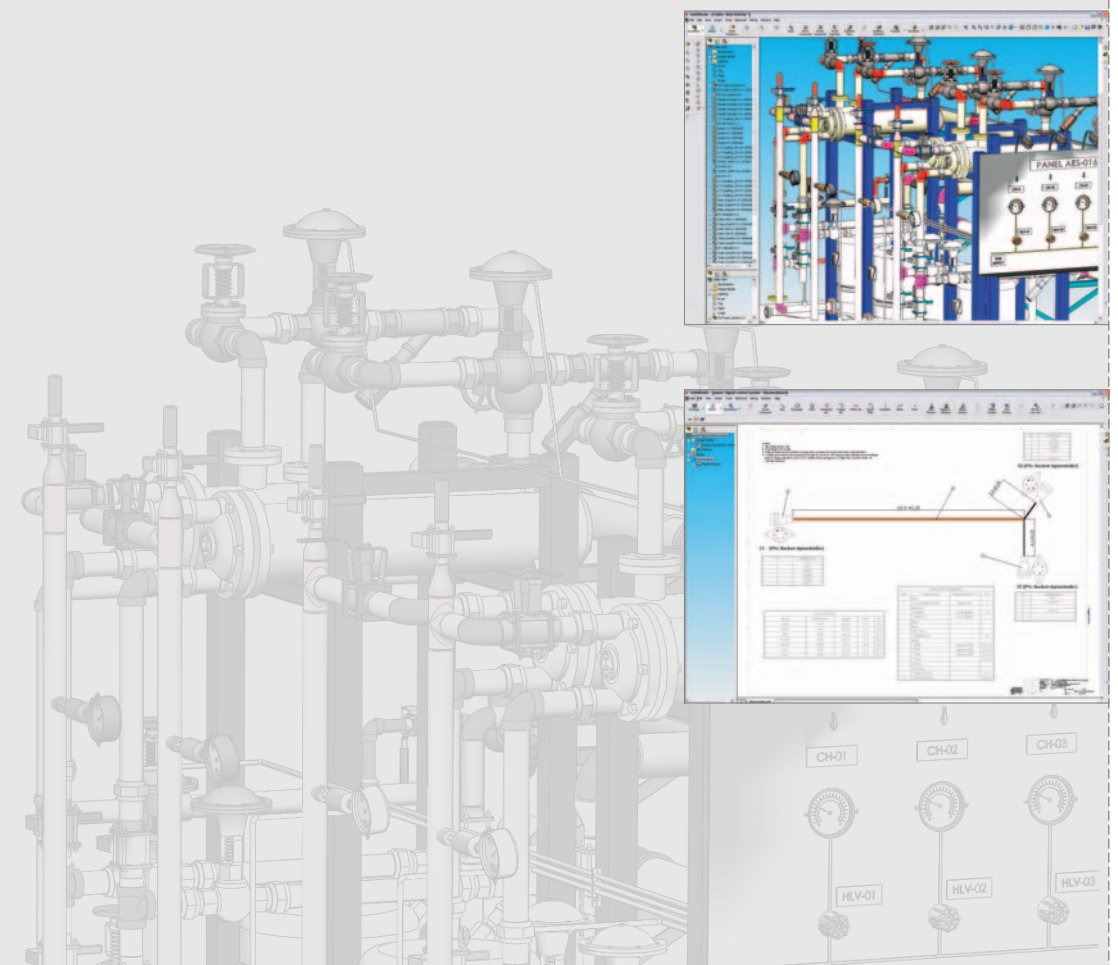
Automated documentation – Automatically create engineering drawings and bills of materials with complete information, including cut lengths for pipe and tube routes.

Additional electrical cabling and harness documentation tools – Generate electrical cabling and harnessing manufacturing documentation easily by flattening 3D routes. Create automatic reports, including wire list, wire summary, and harness bills of materials and connection information. Enhance drawings with details such as connector views, costs, and electrical assembly and test specifications.

Data reuse – Reuse data created with electrical CAD software and other tools when creating new cabling and harnessing route designs. Enable electrical engineers and mechanical engineers to collaborate more easily.

Library of ready-made components – Speed the design with a library of ready-made tubing, piping, and electrical cabling and harnessing components. Contents include pipes, pipe fittings, tube fittings, electrical connectors, receptacles, plugs, and other standard parts.

Design Communication Tools

Share product design concepts and collaborate more easily. Innovative SolidWorks design communication tools allow your organization to begin marketing activities early and to streamline all phases of the product development process.

eDrawings Professional

• Let reviewers provide design input without having to purchase their own markup tools

• View, mark up, and measure eDrawings files

• Enhance viewers' understanding with innovative interpretation tools and instant animations

Communicate product designs more effectively with eDrawings Professional – innovative publishing and viewing software for collaborating easily on product designs that allows an unlimited number of recipients to supply feedback via email. Generate accurate representations of 2D and 3D models that anyone can view, mark up, and measure without having to purchase their own markup tools. Use eDrawings Professional to share product design information more easily with other product designers, marketing and manufacturing staff, suppliers, and customers.

3D Instant Website

• Create and publish live webpages with 3D interactive content

• Share designs with your extended product development team

• Choose from a variety of templates and viewing formats

3D Instant Website is a single-click web publishing tool that allows you to share 3D models with your customers, coworkers, and suppliers. Instantly create a password-protected website that enables visitors to view, rotate, zoom, and pan your 3D models and provide comments. With 3D Instant Website, you can choose from a variety of customizable templates, style sheets, and viewing formats, bringing a higher level of quality to your product design reviews.
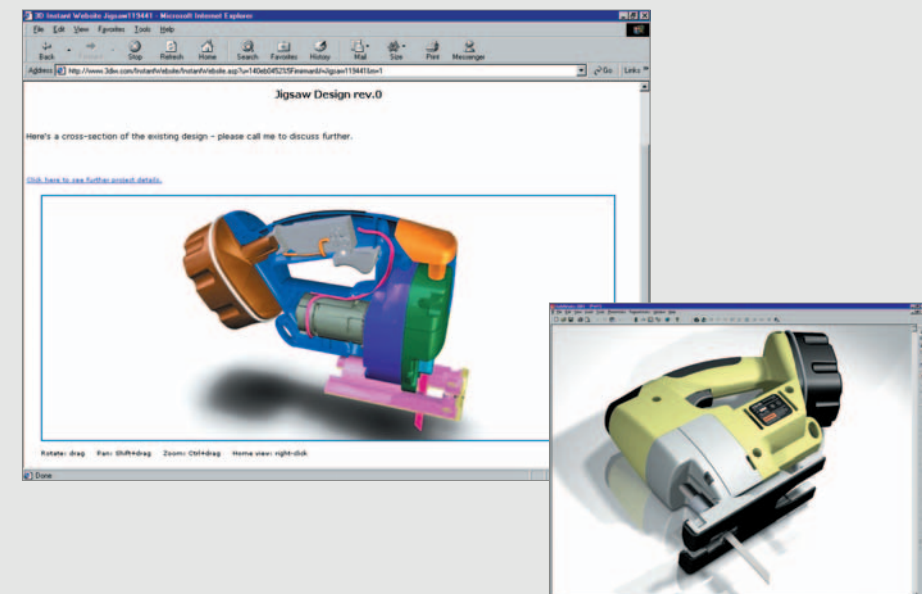
PhotoWorks

• Create compelling photorealistic images

• Enhance images with advanced visual effects

• Market product concepts more effectively

PhotoWorks™ is a best-in-class rendering solution for creating photorealistic images from 3D CAD models, increasing the impact of presentations and proposals. Help your customers and colleagues to visualize your designs more easily. Take advantage of advanced visual effects, such as user-defined lighting, and an extensive library of materials and textures as well as background scenery. Start marketing product concepts early in the development cycle and get to market faster.

SolidWorks Animator

• Create exciting AVI files from SolidWorks parts and assemblies

• Observe in real time how moving parts interact as true solids

• Visually document product design processes

With SolidWorks Animator, you can create compelling AVI files from SolidWorks parts and assemblies, allowing you to communicate design concepts more effectively with anyone who has a Windows PC. SolidWorks Animator helps you to present product designs more effectively by capturing parts and assemblies in motion.

CAD Productivity Enhancements

Increase efficiency with SolidWorks CAD productivity enhancements that automate frequently performed design tasks and improve your ability to reuse previously created design work.
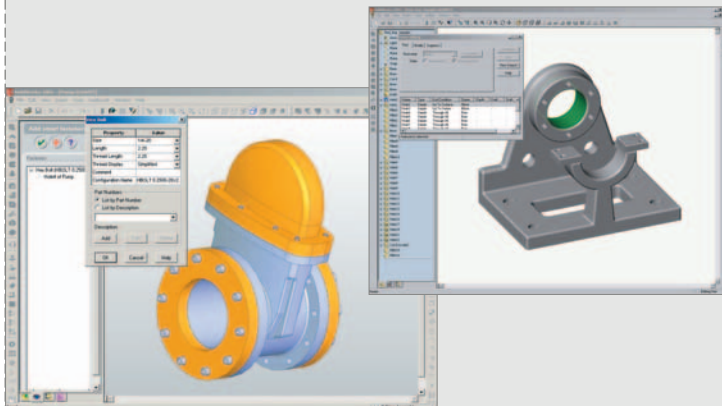
SolidWorks Utilities

- Compare geometry or features between parts
- Find and highlight specific geometry in a part
- Identify problems with imported geometry

SolidWorks Utilities lets you easily find the differences between two versions of the same part or locate, modify, and suppress features within a model. The software supplies a full range of productivity enhancements to make your life easier.

SolidWorks Design Checker

- Easily define your company standards for various aspects of design
- Check design documents interactively to easily identify and correct any inconsistencies
- View results in real time or generate reports detailing previous design checks

SolidWorks Design Checker is a tool that automatically checks designs for completeness to make sure that each design document adheres to your organization's standards. This tool allows you to easily establish a range of acceptable values for design elements such as title blocks, custom properties, and annotation fonts. Then you can automatically check part, assembly, and drawing files while you are working on them to quickly identify and correct any elements that are inconsistent with the standards you've established. You can also generate reports for design documentation to show previous passed and failed design checks. SolidWorks Design Checker reduces the need for change orders and time-consuming quality control processes.

FeatureWorks

- Share 3D models among different CAD systems
- Introduce new design intent into legacy 3D models
- Apply intelligence to static CAD data, making it ready for use within SolidWorks software

FeatureWorks lets you make changes to static geometric data, increasing the value of translated files and reducing the time spent rebuilding models. With FeatureWorks, you can preserve or introduce new design intent when bringing 3D models created in other software applications into the SolidWorks environment. Once intelligence is applied, features become fully editable, associative, and parametric. Results include better product designs, faster development cycles, and lower costs.

SolidWorks Task Scheduler

- Increase productivity by performing resource-intensive computing tasks during breaks and after hours
- Schedule batch printing jobs, generate drawings, and run analyses and custom macros
- Import, export, or update files and custom properties

SolidWorks Task Scheduler is an easy-to-use software utility that saves time by enabling you to schedule resource-intensive tasks during periods when you'll be away from your computer. With SolidWorks Task Scheduler, you can defer common tasks to a more convenient time, such as batch printing, creation of production-level drawings and high-quality eDrawings files, running of analyses, and updating of project files, including all associated files and properties.

SolidWorks Toolbox

- Access a timesaving library of standard components
- Automatically select fasteners and assemble them in the proper sequence
- Configure parts parametrically, quickly, and accurately

SolidWorks Toolbox uses SolidWorks Smart Components to automatically select the appropriate fasteners and assemble them in the proper sequence. With SolidWorks Toolbox, you gain access to an affordable, timesaving library of standard parts – a virtual *Machinery's Handbook®*. SolidWorks Toolbox is an easy way to make sure that every product design you create adheres to industry standards or your company's standards.

For More Information

For more information about SolidWorks Office Premium, contact your local SolidWorks reseller, or visit www.solidworks.com to find the SolidWorks location or reseller nearest you. You may also call SolidWorks toll-free at 1 800 693 9000 for additional information or to speak with a SolidWorks sales representative. If you are calling from outside the US, please dial +1 978 371 5011.

SolidWorks Corporation
SolidWorks Corporation is the leading supplier of 3D CAD technology, providing intuitive, high-performing software that helps product design teams develop better products.

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