

Solid Edge Design and Drafting

Comprehensive 2D and 3D design in one affordable package

fact sheet

Siemens PLM Software

www.siemens.com/solidedge

► Summary

Solid Edge® Design and Drafting software is a full-featured CAD solution that streamlines your mechanical design functions, from concept layout through detail design and drafting. Robust import and export capabilities let you make full use of your existing CAD data, while an award-winning user interface helps you to quickly and easily create parts, assemblies and drawings. Solid Edge Design and Drafting can be used standalone, or as the perfect complement to Solid Edge Classic.

Benefits

- Low cost of ownership
- Reduces design errors
- Enables faster design changes
- Eliminates prototypes
- Increases quality and performance
- Maintains value of legacy data
- Improves communication
- Accelerates downstream processes

Features

- World-class 2D drafting
- Extensive standards support
- Robust data import/export
- 3D part and assembly design
- Programmable API for all drafting functions
- Optional built-in design management
- Affordable
- Easy to learn and use

A member of the award-winning Solid Edge family of products from Siemens PLM Software, Solid Edge Design and Drafting is affordable, easy to use and yet packed with powerful features essential to mechanical design.

Whether used as a standalone product or in combination with Solid Edge Classic, Solid Edge Design and Drafting offers a compelling solution to optimize overall cost of ownership.

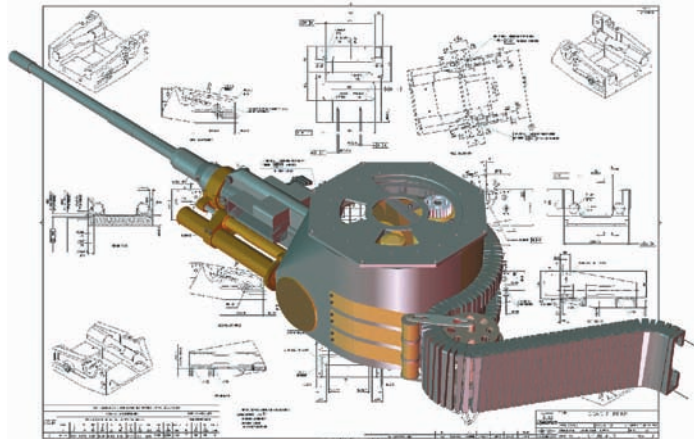
If you are still working in 2D, or have tried other 3D products with minimal success, you will appreciate Solid Edge Design and Drafting's unique 2D/3D hybrid approach to design.

This simple, straightforward and proven formula puts you on the fast track to reaping the benefits of 3D CAD by leveraging your existing 2D activities, processes and designs, without creating unnecessary confusion within your organization.

With Solid Edge Design and Drafting, you will soon be creating 2D drawings, 3D part models and hybrid 2D/3D assembly designs that improve communication, reduce design errors, reduce or eliminate prototypes, speed design changes and accelerate downstream processes such as CAE analysis, tooling design, NC machining and technical document publication.

World-class production drafting

Solid Edge Design and Drafting provides excellent drawing layout, detailing, annotation and dimensioning controls that automatically comply with the mechanical drafting standard you select.



Standards support

ANSI, BSI, DIN, ISO, JIS,
UNI, GB

File import and export

AutoCAD DWG, DXF,
Microstation DGN, 2D IGES,
3D IGES, STEP, ACIS,
Parasolid® software

Programmable API

Solid Edge Design and Drafting is easily customized, so you can create automated tools that precisely match your specific needs. The included application program interface (API) lets you modify and enhance standard drafting commands using your favorite standard Windows programming language.

Unlike other 3D-only products, Solid Edge Design and Drafting offers a full-featured standalone drafting environment that lets you create 2D drawings from scratch, while robust import and export capabilities allow you to continue making full use of your existing legacy data.

Or quickly create drawings from 3D parts or assemblies. Solid Edge Design and Drafting quickly creates standard and auxiliary views, including section, detail and exploded views. Balloons and parts lists are easily added and, as changes are made to models, associated drawings update automatically.

Synchronous technology

This breakthrough combines the speed and flexibility of explicit modeling with the precise control of parameterized design. Models can be developed faster because designs no longer require preplanning. Changes are more flexible since users can apply 3D driving dimensions to completed models and Live Rules maintains model integrity throughout design iterations. During any change, models are not regenerated so performance is nearly instant. The same edit tools can be used on imported data so changes to outsourced data can be made on the spot.

Part geometry, relationships and dimensions can be easily modified to investigate design alternatives and a built-in variable table – similar to a spreadsheet – allows functions and calculations to drive intelligent changes to the design.

Higher levels of assembly intelligence

Solid Edge Design and Drafting uses proven technology to meet the challenges of large assembly design. Advanced model navigation, lightweight and simplified part representations and powerful display and selection tools, make it easy and practical to work with assemblies comprising thousands of parts.

Robust assembly design tools enable you to easily develop 3D models that capture and maintain relationships among assembly components. Designing and modifying parts directly within the assembly model ensures accurate fit and reliable and predictable behavior as the design is modified.

And Solid Edge Design and Drafting boosts overall productivity by allowing multiple designers to work on the same assembly project, with immediate access to up-to-the-moment work of the other designers.

Scalable design and design management solutions

Unique in the PLM industry – scalability and interoperability with all products in our portfolio is a core vision of Siemens PLM Software. Siemens has a clear and consistent development strategy, allowing different products to coexist, offering a safe, scalable approach for both design and data management. If you are already using products from our portfolio, Siemens is committed to providing functionality that allows Solid Edge to coexist within your organization. Solid Edge is completely scalable and extensible to both the NX™ and Teamcenter® software portfolios when your business requirements change.

► For more information, contact your local Velocity Series™ portfolio representative:

Contact

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