Solid Edge OEM

Leverage decades of development and partner with a global leader in industrial software solutions

Benefits
- Modular and extensible toolkit
- Rapid development of customized applications
- Seamless exchange of design data

Features
- Advanced part modeling: synchronous, history-based, hybrid
- Convergent Modeling supports reverse engineering and additive manufacturing workflows
- Sheet metal design
- Assemblies
- Product drawings
- Motion simulation
- Data management
- Additive manufacturing support
- Basic rendering
- Secure cloud-based sharing via Solid Edge Portal
- Translators

Summary
Solid Edge® OEM software enables original equipment manufacturers (OEMs) to extend the capabilities of their products with Siemens' industry-leading product design technology. Participants in the program can leverage Solid Edge design software to create and offer new customized applications to their customers at a price and delivery model that is best suited to their business.

Solid Edge OEM provides a range of powerful capabilities, including a complete set of tools for part and sheet metal design, assembly modeling and 2D drafting. The market-leading synchronous technology of Solid Edge delivers a unique advantage to OEMs, enabling the seamless creation, editing and exchange of traditional history-based, history-free or hybrid solid models. Siemens' innovative Convergent Modeling™ technology brings together facet and classic boundary representation (B-rep) modeling into one leading-edge solution.

This best-of-breed solution allows OEMs to focus on their core strengths while harnessing a powerful, scalable design toolset.

Key to Solid Edge OEM is the ability for OEM customers to rapidly customize the application experience, including the user interface and desktop elements to reflect its brand. The open application programming interface (API) delivers the ability to specify, modify or completely replace the following application elements:

- Splash screen
- Company name, application title, application version
- Preferred application add-in
- Default ribbon
- Background and learn page
- Product name
- Docking panes
- Help menus
- Social media channels: Facebook, Solid Edge Community and YouTube
- Desktop elements

Solid Edge OEM combines proven technologies and delivers them in an easy-to-consume set of modular building blocks, together with documentation and examples so OEMs can reduce development costs and time to market. Following is a summary of the building blocks that can be incorporated in a configuration that works for your business.

Product drawings
The comprehensive dimensioning and annotation tools of Solid Edge enable you to create fully detailed drawings

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remarkably fast. QuickSheet templates can be used to automatically populate a drawing with predefined standards such as views, parts lists and annotations.

Advanced part modeling
Solid Edge makes creating and editing 3D computer-aided design (CAD) models faster and easier through Siemens' unique synchronous technology – which combines the speed and simplicity of direct modeling with the flexibility and control of parametric design. State-of-the-art Convergent Modeling capabilities are also included, so scanned data as well as design data is immediately editable in the tool.

Sheet metal design
Specialized sheet metal design capabilities allow you to create and modify sheet metal features, such as dimples and beads, using sketches and engineering parameters, without having to regenerate unrelated geometry or downstream operations. Additionally, the software creates flat patterns automatically, including complex flattening required for press work.

Assemblies
Design the way you want to, whether bottom-up (by assembling existing components), or top-down (starting from a conceptual layout or by designing parts to fit into an existing assembly). A suite of assembly modeling commands and tools enables you to use either approach associatively or non-associatively. The unique synchronous technology of Solid Edge helps you create and modify assemblies faster, using Boolean functions or simultaneous multipart edits.

Photorealistic rendering
Basic rendering provides an easy way to change materials, lighting and environments by simply dragging and dropping from a huge library of optional materials, colors, lighting schemes and backgrounds.

Motion simulation
Motion simulation combines advanced gear and motor relationships with a timeline control that allows design engineers to check for full range of motion, clearance and collisions automatically.

Data management
Solid Edge data management is fast and easy to set up – simply place an index on the folders where you store your Solid Edge files. The built-in data management capability accelerates completion of everyday tasks and reduces errors in the design process. You can review and edit properties of multiple files and perform revision and release operations on Solid Edge parts, assemblies and drawings. Backup, share and synchronize your Solid Edge files using popular cloud-based file sharing software like Dropbox™, OneDrive™, Google Drive™ and Box™.

Additive manufacturing
Support for 3D printing is built in, with 3D printing preparation, STL and 3MF file export, including support for color printing or access to 3D printing services. Convergent Modeling features included in Solid Edge OEM can be leveraged to further enhance additive workflows.

Translators
Solid Edge OEM includes translators for converting data from common CAD file formats, including JT, DXF, and DWG.

Partner with Siemens PLM Software
When you choose Solid Edge OEM you are leveraging decades of product development and partnering with Siemens PLM Software, a leading global provider of software, systems and services. With over 15 million licenses sold and 140,000 customers worldwide, Siemens PLM Software works collaboratively with clients to offer industrial software solutions that help companies achieve a sustainable, competitive advantage and realize their important innovations.

For more information visit: *https://solidedge.siemens.com/en/solutions/products/3d-design/solid-edge-oem*

Contact: *Component_sales.plm@siemens.com*

Recommended system requirements
- 64-bit Windows 7 or Windows 10 operating system
- 8 gigabytes (GB) random access memory (RAM) or more
- True color (32-bit) or 16 million colors (24-bit)
- Screen resolution: 1280 x 1024 or higher, widescreen format

Minimum system configuration
- One of the above 64-bit operating systems
- 4 GB RAM or more
- 65K colors
- Screen resolution: 1280 x 1024 or higher
- 6 GB of disk space is required to install Solid Edge

Siemens PLM Software
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