



SIEMENS DIGITAL INDUSTRIES SOFTWARE

# 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

## 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. OEMs can mix and match a variety of capabilities, only paying for the tools needed, to ensure a price and delivery model best suited to their customer's 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.

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[solidedge.siemens.com](https://solidedge.siemens.com)

**Features** *continued*

- Motion simulation
- Data management
- Additive manufacturing support
- Basic rendering
- Secure cloud-based sharing via Solid Edge Portal
- Translators

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. OEMs can rapidly specify, modify or completely replace the following 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

In addition, the open application programming interface (API) enables OEM customers to rapidly add their own proprietary functionality and deliver a tailored solution built on market-leading Solid Edge design software.

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 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, from dimples and beads to lofted flanges and bend bulges, 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.

### 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 Digital Industries Software

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

### Minimum system configuration

- Windows 10 Enterprise or Professional (64-bit only) version 1709 or later
- 8 GB RAM
- 65K colors
- Screen resolution: 1920 x 1080
- 6.5 GB of disk space required for installation

For more information visit:  
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