

DIGITAL INDUSTRIES SOFTWARE

Solid Edge Design Configurator

Create customized designs at the click of a button

Benefits

- Automates repetitive design tasks to boost productivity
- Configures products quickly and easily to accelerate configure-to-order and engineer-to-order processes
- Creates more compelling sales proposals quickly, increasing win and bid rate
- Improves order lead time, throughput and margins
- Results in fewer order and job site correction errors
- Delivers faster time-to-market for new products

Summary

Solid Edge® Design Configurator software delivers powerful design automation capabilities within the Solid Edge environment. This software, which is part of the Siemens Xcelerator portfolio, the comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software, is a design automation application that adds rule-based automation to a user's familiar Solid Edge mechanical design environment. Completely embedded in Solid Edge, it enables the quick customization of products based on design parameters and rules. Rule-based automation can boost productivity and design speed.

Dramatically reduce product design time

Offering unique products is a competitive strategy that creates distinctive value, wins more business and increases customer loyalty; however, manual design customization can be expensive, error-prone and time-consuming. Using Solid Edge Design Configurator allows your team to rapidly design products to customer specification while eliminating expensive errors inherent in manual design customization.

Features

- Advanced rule-based automation of 3D CAD, drawings, BOMS, 3D visualization, technical design docs
- Preconfigured datasets for ladders, conveyers and enclosures
- Automatic drawings
- Easy-to-use rule authoring within the Solid Edge environment
- Guided configuration process within Solid Edge
- Guided configuration within a web browser
- Batch automation of design jobs

Preconfigured datasets for ladders, conveyers and enclosures can be directly inserted and manipulated inside the main assembly with Solid Edge Design Configurator. As intelligent datasets with predefined rules, a vast array of preconfigured models can be placed and automatically adjusted to match the assembly to help simplify workflows and improve productivity. Solid Edge Design Configurator supports preconfigured models downloaded from the Siemens Support Center at no cost to improve product design automation and boost design speed.

Faster, more compelling and accurate sales proposals

Sales proposals for customized products often require long lead times for design tasks. Solid Edge Design Configurator enables the user to automate key components of this sales engineering process, providing related outputs such as a costed bill-of-materials (BOM), compelling 3D visualizations and sales drawings. Responding more quickly to requests for quote (RFQ) while providing strong technical data in every proposal can help a company win business. The ability to quickly engineer a detailed design at the point of sale (POS) enables more accurate cost estimations, providing you with the information to conduct more confident price negotiations and realize more predictable margins on orders.

Shorter order lead times

Automating many of the repetitive design tasks involved in the order engineering process can reduce overall order lead time and engineering costs. Equally important, shorter order lead times can be quoted during the sales process, yielding a more competitive offer. Design automation reduces margin-eroding engineering order errors.

More time for product innovation

For many small and medium-sized businesses, the same engineering team is tasked with order engineering and new product innovation. Unfortunately, orders typically take priority over new product development. Automating the order engineering process allows more time for product innovation.

Easy-to-use yet powerful rule-authoring environment

The Solid Edge Design Configurator allows users to capture the engineering rules and parameters that drive a product's design. Configuration rules are defined within Solid Edge, using a step-by-step guided process without the need for programming knowledge. A comprehensive suite of tools is available for capturing a wide range of rule types including:

- Engineering formulas
- Geometry-related rules, which are easily mapped to the parameters of the 3D model
- Drawing automation rules
- BOM rules
- User interface (UI) rules for building a guided design configuration process
- Truth table rules for easily capturing a design variation matrix and many more

Once authored, rules can be quickly tested within the current Solid Edge session. There's no need to compile rules and start a separate run-time session for testing. This greatly speeds the rule develop/test loop.

Guided design configuration in Solid Edge

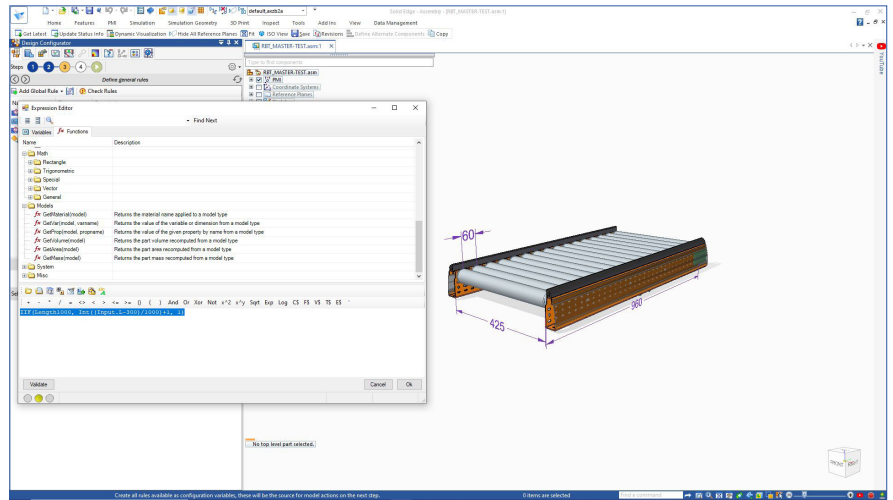
Solid Edge users can quickly generate new designs without ever leaving the design environment. A graphical user interface leads the user through the functional product specification while rules certify only valid product selections are made. Once the functional product requirements are completed, Solid Edge Design Configurator is used to generate the product design and associated design artifacts.

Automatic drawings

Solid Edge Design Configurator can automatically create drawings based on a specified template, retrieving and scaling the dimensions for an optimal fit. Multiple templates can be created for each model type, making it easy to configure your drawings to fit your specifications now and in the future. Custom assembly configurations can be created, updated and activated to manage the visibility of each component within the assembly. You can define which components are visible, temporarily hidden or completely hidden from view.

A better solution

Using Solid Edge Design Configurator eliminates the need for custom programming a solution or a complex spreadsheet tied to computer-aided design (CAD) via application programming interfaces (APIs). Such home-grown solutions can be difficult to maintain, hard to scale and often significantly lag product design changes and evolving business rules. Built for designers and embedded in Solid Edge, this product is easy for designers to learn and use.



Extending value

The Solid Edge portfolio is an integrated set of powerful, comprehensive and accessible tools that advance all aspects of the product development process. Solid Edge addresses today's complexity challenges with automated digital solutions that cultivate creativity and collaboration.

By harnessing the latest innovative technologies in mechanical and electrical design, simulation, manufacturing, publications, data management and cloud-based collaboration, using Solid Edge dramatically shortens time-to-market, provides greater production flexibility and significantly reduces costs with its collaborative and scalable solutions.

Minimum system requirements

- Windows 10 Enterprise or Professional (64 bit only) version 1809 or later
- 16 gigabyte (GB) random access memory (RAM) for commercial use and 8 GB RAM for academic use
- 65K colors
- Screen resolution: 1920 x 1080
- 8.5 GB of disk space required for installation

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For additional numbers, click [here](#).