- SOVELIA CONFIGURATOR -

SOVELIA CONFIGURATOR

DESIGN AUTOMATION

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AUTOMATE AND SAVE TIME

DOES THE MAJORITY OF PRODUCT DESIGN INVOLVE REPEATED MANUAL TASKS?

Often, over half of designers' time is spent on repetitive manual tasks that do not add value to the products being designed.

Design processes become more efficient by reducing or eliminating these time-consuming tasks. Instead of struggling with project schedules or hiring additional personnel, the solution to the challenges of design time may lie in process automation.

In this brochure, we'll explain how your company can automate product design using Sovelia Configurator. Sovelia Configurator is based on our own technology and is well-suited for automating product and sales processes.

Get in touch with us when you want to learn more. We are happy to answer your questions.

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BRIEF OVERVIEW OF DESIGN AUTOMATION

Although custom-made products are often variations of base products, designing customized products from these base products manually takes time and requires more resources.

Design automation tools are developed for industries that design complex products, often made from different parts or components, and may involve customer- or order-specific changes.

Design configurators capture and utilize valuable design, manufacturing, process, and cost estimation expertise and automate the production of documents required for production using this data.

Designers can focus on more productive work because design automation significantly reduces the time and effort spent on customization, reduces the risk of errors, and improves overall efficiency in the design process.

- Design automation improves process efficiency by reducing repetitive tasks and shortening work times. This saves time and resources.

- Automation reduces the risk of human errors in design work, leading to more accurate and reliable results.

- Frees up designers' time and energy for more creative and complex design and problem-solving tasks, where human expertise is crucial.

BENEFITS OF DESIGN AUTOMATION FOR THE BUSINESS

Symetri's automation and configuration solutions help save time and costs while providing your customers with an increasingly comprehensive range of flexibly customizable product options.

Symetri's sales configurator and configure-to-quote solutions enable order-specific product configuration and pricing. The technical structure of the product becomes a clear tool for marketing as well. Additionally, quotes, drawings, and 3D design data are available immediately. The product configurator reduces manual work steps and streamlines production by standardizing the design department's work, freeing up designers' time for more interesting and productive tasks.

- Streamlines internal design and production processes by automating repetitive tasks.

- Minimizes errors in design and technical specifications.

- Design process automation optimizes resource usage, reducing labor costs and minimizing the need for corrections due to errors.

- Designer knowledge becomes visible and can be centrally stored.

- Drawing and model creation are standardized, including materials for customers.

- Reduces repetitive manual work steps and frees up time for more interesting tasks.

- The interface is always customizable according to your company's needs.

- Drawing creation, exporting parts lists, and creating secondary formats are done automatically.

- Making changes to parts and assemblies can be done project-specifically (ETO process).

- Creation of fully automated design and drawing configurators that follow the constraints defined by the sales configurator or the company's own calculation software (CTO process).

- You can deliver customized products to your customers in a shorter time, gaining a competitive advantage in the market.

The design configurator is an investment in the future, as it improves customer experience, increases sales, provides a competitive edge, improves efficiency, provides valuable customer information, and enables growth and development in the future.

BENEFITS OF DESIGN AUTOMATION FOR THE DESIGNER

Design configurators often have an easy-to-use, intuitive, and visual interface that makes designing and combining products and components effortless. They speed up the design process and reduce the risk of human error.

With the help of a design configurator, a designer can

- adjust, modify, and customize product features, components, colors, and other parameters

- create individual solutions for different needs

- see real-time 3D modeling and immediately see how changes affect the appearance and functionality of the final product

- automate part of the design process with predefined rules or logic

- free up valuable time for actual product design

- utilize and reuse drawings previously created by colleagues

- work more efficiently by following the same constraints

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"The product configurator has significantly accelerated our design process and freed up valuable time for product design. A knowledgeable partner like Symetri, with whom cooperation works and who can help us both with ideas and in developing our operations, is invaluable."

Björn Hedin,
CAD Design Manager, IV Produkt

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WHY SOVELIA CONFIGURATOR?

SOVELIA CONFIGURATOR
A VERSATILE SOLUTION

The complexity of design processes in the manufacturing industry requires continuous development and better tools that meet specific needs. Sovelia Configurator, like other Sovelia products, has been developed with and for customers to meet real needs, and development continues all the time.

- Sovelia Configurator seamlessly integrates with other software used in the manufacturing process, such as CAD tools, PLM systems, and ERP software. This compatibility ensures smooth workflow and seamless data transfer between different production stages.

- Sovelia Configurator streamlines the design process by automating repetitive tasks. This automation can significantly shorten design cycles, minimize errors, and improve overall design and production efficiency.

Read on the following pages to learn about the other functionalities and benefits of Sovelia Configurator

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SOVELIA CONFIGURATOR IN BRIEF

TRANSFORMS TECHNICAL PRODUCT DEFINITIONS INTO CUSTOMER LANGUAGE AND MEETS SALES REQUIREMENTS.

USER-FRIENDLY 3D INTERFACE GUIDES IN MAKING CHOICES.

EASY AND POWERFUL RULE NOTATION ALLOWS EASY CREATION AND MAINTENANCE OF THE RULE BASE.

FULLY WEB-BASED INTERFACE THAT CAN INCLUDE TEXT AND IMAGES, OR 2D OR 3D GRAPHICS THAT UPDATE AS THE CONFIGURATION IS MODIFIED.

INTEGRATES WITH CAD, ERP, CRM, AND PLM SYSTEMS IN A ONE- OR TWO-WAY SETUP.

PRODUCT INFORMATION IS EASILY ACCESSIBLE REGARDLESS OF TIME, PLACE, OR DEVICE.

SUPPORTS BOTH CTO (CONFIGURE TO ORDER) AND ETO PROCESSES (ENGINEER TO ORDER).

PRICES UPDATE IN REAL TIME BASED ON SELECTED OPTIONS.

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SMOOTH DESIGN

SOVELIA CONFIGURATOR
FUNCTIONALITIES

- Symetri's sales configurator and configure-to-quote solutions enable order-specific product configurators and pricing

- The technical structure of the product becomes a clear tool for marketing

- Additionally, quotes, drawings, and 2D and 3D design data are available immediately

- The product configurator reduces manual work steps and streamlines production by standardizing the design department's work, freeing up designers' time for more interesting and productive tasks

Did you know that Sovelia Configurator is often praised for its intuitive user interface, making designers' work more efficient?

USER INTERFACE

The user interface can be configured to include text and images or 2D and 3D graphics that update as the configuration is built. 3D provides an intuitive user experience, allowing you to manipulate the position of parts in the 3D view. The fully web-based interface is accessible regardless of time, location, or device.

BILL OF MATERIALS AND COST/PRICE CALCULATION

Bill of materials (BOMs), costs, and prices are calculated in real time while configuring the product. The bill of materials can be multi-level, including other resources such as labor hours. Part lists or resource lists can be linked to quotations and transferred to PLM or ERP systems.

Sovelia Configurator is suitable for various design processes. You can utilize the solution to facilitate the design of different products, including printed circuit boards, consumer electronics, components, smart devices, industrial machinery, medical equipment, and furniture, just to name a few.
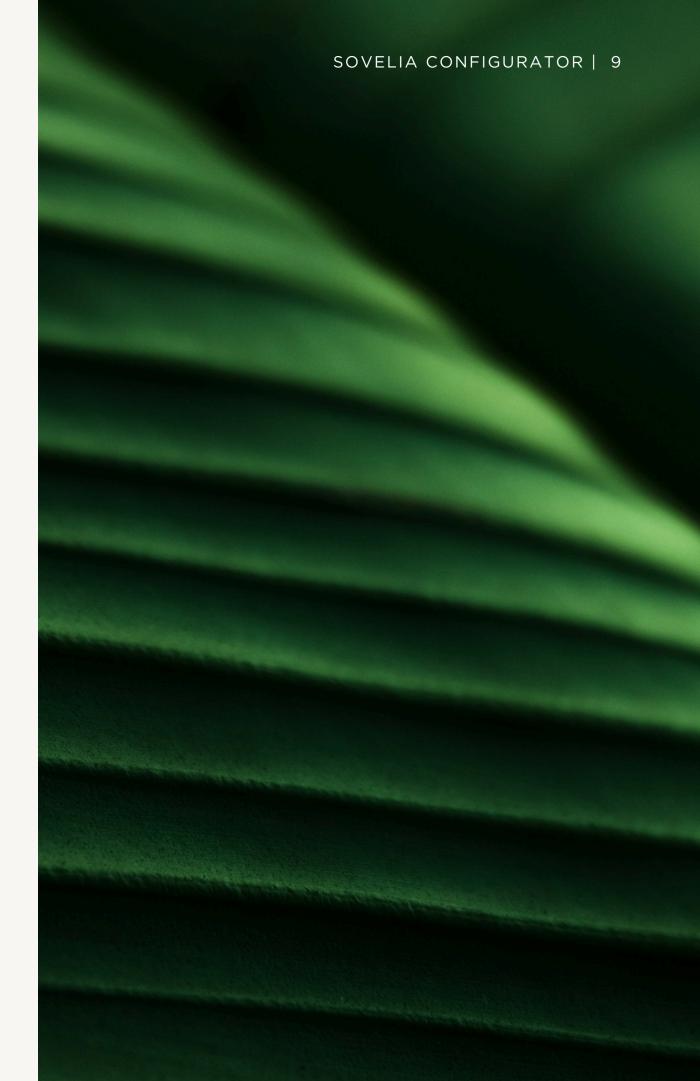
RULE ENGINE

At the core of the configurator is an extremely fast and efficient rule engine that calculates bills of materials, costs, and prices while configuring the product. The rules used in calculations are stored in a centralized database. All other functions are organized into modules that can be easily added or changed based on your business needs.

CONFIGURATION TOOL

The software includes an easy-to-use, free configuration tool. This tool is used to define and maintain the constraints stored in the database. Main users can easily add and maintain rules themselves. Users can also test conditions in a test environment before deploying them to the production environment.

CUSTOM MODULES (CALCULATION, UI ETC.)

You can add custom modules tailored to your individual needs to the solution. Common modules include various calculation-related modules (existing mathematical or time-consuming calculations), integration-related modules, and user interface customization modules.

OFFER DOCUMENT GENERATION

Offer documents with essential information, images, parts lists, and prices can be automatically generated. The generation process utilizes document templates that can be customized to match your company's needs. In addition to quotations, other documents such as order specifications and product technical specifications can also be automatically produced. The function supports creating documents in different languages.

SOVELIA CORE PLM INTEGRATION

One- or two-way connections can be defined between systems. To avoid duplicates, PLM systems typically performs checks before creating new articles. The integration supports transferring multi-level part and resource lists, and attached files can be linked to the product structure.

CAD INTEGRATIONS

Sovelia Configurator can be integrated with Autodesk Inventor, Revit, and 3ds Max software. CAD applications usually run in the background as so-called black-box solutions. Users only see the final files and documents, not the running software. These 3D designs, drawings, BIM objects, and rendered images can be automatically created using CAD applications and delivered to users.

ERP INTEGRATION

One- or two-way integrations can be defined between systems. The integration supports transferring individual articles and single- or multi-level part and resource lists, depending on the ERP system. If Sovelia Core is in use, the integration is typically set up between PLM and ERP systems.

CRM INTEGRATION

One- or two-way integrations can be defined between systems. Usually, customer information is retrieved from the customer relationship management system during the configuration process. If desired, proposal documents and other information can be exported back to the CRM system via direct links or Sovelia Core.

Our solutions seamlessly integrate into customers' IT environments, with typical integrations being between design software and ERP systems.

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CAPTURE THE PRODUCT INFORMATION

SOVELIA CONFIGURATOR AND SOVELIA CORE
AT THEIR BEST

If you change how you use and manage design information, you can achieve significant benefits throughout the company.

The combination of design automation tools and PLM systems provides a comprehensive solution to streamline the product development process, enhance data management, and improve quality.

Therefore, we generally recommend considering the company's product data management systems when acquiring Sovelia Configurator— whether they need improvement and whether a PLM solution would bring clarity and a systematic approach to the processes of the entire production organization.

Design automation tools and PLM systems are two essential components of the product development process, and their combination can offer several advantages for your company.

SOVELIA CONFIGURATOR AND SOVELIA CORE TOGETHER

Design automation tools expedite the design process by automating repetitive manual tasks, and when these tools are integrated with a PLM system, design and product data management are further enhanced.

The Sovelia Core PLM system helps organize and manage all product development-related information from one place. When design automation tools are integrated into this system, all design-related information (such as models, drawings and documents) is automatically stored and synchronized with PLM, improving data integrity, and quality, and facilitating its discovery and use in different stages.
The PLM system also provides a platform where different teams and stakeholders can work together, share information, and collaborate seamlessly.

Integrating design automation tools into this environment enables real-time collaboration in design work between different parties and reduces human errors.

The simultaneous acquisition of design automation tools and a PLM system enhances design while managing the entire product lifecycle from one place.

> *"When the design is complete, the bill of materials automatically transfers to our online store, without human input. The online store then provides the price and delivery time. We have three central warehouses, so the bill of materials must be error-free. Then our customers will definitely receive what they have ordered."*
>
> Torbjörn Hansen,
> FlexLink

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SMOOTH PRODUCT INFORMATION MANAGEMENT

SOVELIA CORE IN BRIEF
SOVELIA ENSURES PRODUCT INFORMATION MANAGEMENT THROUGHOUT THE ENTIRE PRODUCT LIFECYCLE

With Sovelia Core, companies can leverage sustainable and efficient business processes throughout the entire product lifecycle, from concept design to product retirement and recycling.

Sovelia Core is easy to configure and enables effective management and utilization of product information at different stages of the product lifecycle. It includes both pre-configured tools and industry-proven processes.

The built-in management interface of Sovelia Core allows you to adjust configurations and define system parameters without programming skills. The user-friendly interface adheres to industry-standard functions, making it quick to learn and efficient to use.

Sovelia Core consists of modules developed based on our extensive experience with various companies' PDM and PLM implementations. These modules support industry-proven processes and practices and can be flexibly customized to meet the company's individual needs.

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WHY
SYMETRI?

DESIGN AUTOMATION SOLUTION
EXTENSIVE SERVICE AND SUPPORT

HOLISTIC SUPPORT AND DIVERSE SERVICES
At Symetri, we don't just develop and offer software; we provide comprehensive solutions, support, training, and consulting services. Our goal is to ensure that you can make the most of your technology.

CUSTOMER-CENTRIC APPROACH
We focus on understanding our customers' needs and their business. The adoption of new technologies and processes often occurs in one or more phases. In larger projects, the first phase can usually be utilized immediately to ensure the fastest possible return on investment.

TAILORED SOLUTIONS TO MEET YOUR NEEDS
One of our strengths is the ability to tailor solutions and consulting services to our customers' specific requirements. Sovelia Configurator, like other Sovelia products, has been developed by us, and we continuously adapt our solutions based on our customers' wishes and needs.

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WANT TO KNOW MORE?

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A SYMETRI TECHNOLOGY