Design better.

www.siemens.com/solidedge
Solid Edge® software is a complete hybrid 2D/3D CAD system that uses synchronous technology for accelerated design, faster revisions and better imported re-use to help companies design better.

Solid Edge offers different applications to suit your needs. From powerful 2D Drafting to an advanced 3D system – complete with assembly design, automated drawing production, simulation and assembly applications – Solid Edge is the most comprehensive and scalable digital product development system from Siemens that is designed for mainstream engineering.

### Solid Edge

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The secrets to better design

Synchronous technology for fast/灵活的建模
Solid Edge 利用同步技术，使您的公司能够加快设计的创建，无需进行设计预规划。设计人员可以更快地执行 ECO 编辑步骤，同时增加对现有 2D 或 3D 数据的重用。这种独特技术有助于更快地将产品推入市场。

Better transition and re-use from 2D or 3D
Solid Edge 已经成功帮助公司通过更好的重用 2D 和 3D 数据来减少工程成本。导入的装配布局可以驱动 3D 产品设计，解决装配和定位问题。同步技术可以编辑导入的 3D 模型，减少重新设计的需要。

Complete digital prototyping
With Solid Edge 你可以构建整个 3D 数字原型并优化你的设计。你可以设计包括切削、铸造或造型的组件，以及特定于流程的应用程序来简化框架、管道、管路、焊接和模具工具设计。你可以使用数字原型来展示你的产品将如何在现实生活中运行和外观，通过爆炸视图、写实渲染和动画。通过更准确的数字原型，你可以更快地实现更高的产品质量。

Advanced sheet metal design
Solid Edge 提供一个完整的冲压设计系统，包括建模、展开和制造文件。你可以创建冲切、拉伸或过渡类型的组件，包括法兰、孔、缓解和转角选项。你可以验证冲压设计，记录弯曲序列，并发送平面图案 DXF 文件直接到生产。让你的冲压设计更快地推向市场。

Cover: Snowblower designed in Solid Edge courtesy of Aebi Schmidt Holding AG.
Inside front cover: A machine for the wood processing industry courtesy of Doucet Machineries Inc., modeled and rendered in Solid Edge.

Advanced sheet metal design
Solid Edge provides a complete sheet metal design system from modeling, flattening and manufacturing documentation. Create straight brake, rolled or transition type components complete with flanges, holes, relief and corner options. You can validate designs for manufacturing, document the bend sequence and send flat pattern DXF files directly to production. Get your sheet metal designs to market faster with Solid Edge.
The secrets to better design

Optimized for massive assemblies
Efficient display management tools, such as configurations and design zones, help you focus on relevant parts and tasks; this is ideal for concurrent design. Modeling performance receives a significant boost from an inactive lightweight mode that frees memory of unused data. Support for 64-bit computers lets you open and work with your largest designs faster and more efficiently. Solid Edge helps you create and manage all of your assemblies, including designs that range in complexity from 1 to more than 100,000 parts.

Production-proven 2D drafting
High quality products begin with high quality drawings and Solid Edge is the industry’s best choice for creating accurate, high quality 2D drawings from 3D models. You can automatically create a wide variety of views including standard, auxiliary, section, detail, broken and isometric views. Detailing is fast since Solid Edge supports dimension retrieval while enabling you to automatically generate parts lists with balloons. Drawings are always kept up to date, alerting you to any change. Solid Edge provides industry-standard symbols to speed up the creation of layouts and schematics. Accurate drawings that are automatically kept up to date help keep your production lines running smoothly.
Integrated design analysis
Reducing engineering costs can be done by simulating product operation requirements before manufacturing. Solid Edge offers an Engineering Reference tool that automates the design of standard components such as shafts, beams and cams. Solid Edge solves complex fit and position using simple 2D free-body diagrams with Goal Seek. Solid Edge Simulation helps you analyze 3D parts and assemblies, and synchronous technology lets you refine designs faster. For advanced simulation needs, Siemens PLM Software’s Femap™ software is ideal for the multidiscipline engineer or analyst. These simulation tools help you reduce the time and cost needed to build and test expensive physical prototypes.

Collaboration across the supply chain
Solid Edge offers a full suite of tools that lets designers author, edit, distribute and explore design alternatives. Use XpresReview to distribute compact design review packages including requirements documents, spreadsheets, 2D and 3D models. The industry standard JT™ viewing format keeps review files small while allowing viewing and redlining. When design concepts need to be explored, synchronous technology lets your design team make rapid and flexible edits.
Transparent design and data management
One of the most important aspects of any design process is the ability to manage data across the entire product development cycle. Solid Edge offers transparent and integrated data management capabilities to suit every customer. The Microsoft SharePoint-based Solid Edge SP design management solution provides easy vaulting and retrieval of Solid Edge files and related design data, together with a visual approach to managing linked documents, product structures and projects. Alternatively, with use of the Solid Edge Embedded Client, customers can integrate Solid Edge with Teamcenter® software and access comprehensive PLM capabilities that help you deliver increasingly complex products to market while maximizing productivity and streamlining global operations.

PLM with the Velocity Series
To help you achieve maximum productivity, the Siemens PLM Software Velocity Series portfolio offers a comprehensive family of modular, yet integrated solutions that leverage the industry’s best practices to provide significant breakthroughs in ease-of-use and solution deployment including:

- **Solid Edge** – 3D design for faster time-to-market while reducing engineering costs
- **Femap** – Simulation to reduce the need for physical testing, resulting in lower costs
- **CAM Express** – NC programming for maximizing machine tool utilization
Continuing our relationship
Siemens PLM Software understands that your goal is to design great products. This is why we offer several alternatives that enable you to get the most out of your Solid Edge investment. Maintenance contracts provide customers with automatic updates to new Solid Edge software releases. They are filled with exciting new enhancements, as well as periodic maintenance packs that include incremental maintenance improvements.

Customers can also access news groups that facilitate collaboration by enabling participants to exchange ideas and share their experiences with other Solid Edge users. We also work with users groups that sponsor events where users have the opportunity to meet with each other in person. We encourage your participation in these venues.

Summarizing Solid Edge value
When it comes to 3D design, Solid Edge is your best choice for accelerating design, getting products to market quicker, speeding ECO execution and maximizing your re-use of imported 2D and 3D data. Solid Edge is distinguished by its ability to provide superior part and assembly modeling, drafting, transparent data management and built-in finite element analysis. These attributes enable Solid Edge to deliver the fastest, most flexible design experience possible while easing the challenges inherit in performing product development in today’s complex global economy.

Extending the experience
Siemens Industry Software

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About Siemens PLM Software

Siemens PLM Software, a business unit of the Siemens Industry Automation Division, is a leading global provider of product lifecycle management (PLM) software and services with 7 million licensed seats and 71,000 customers worldwide. Headquartered in Plano, Texas, Siemens PLM Software works collaboratively with companies to deliver open solutions that help them turn more ideas into successful products. For more information on Siemens PLM Software products and services, visit www.siemens.com/plm.