



Siemens PLM Software

# Solid Edge 2D Drafting

Providing a robust 2D design application at no cost

## Benefits

- Save time and money with a cost-effective, high-value solution for 2D tasks
- Continue to make use of 2D legacy data
- Stop paying for upgrades and subscriptions
- Download regular updates for free
- Standardize on a single platform, reducing training and maintenance costs
- Share native drawings with suppliers for design review or manufacture

## Features

- Production-proven 2D drafting
- Fast and easy parametric drawing layout
- Annotation and dimensioning that complies to world standards

## Summary

Solid Edge® 2D Drafting software delivers a production-proven set of capabilities for creating 2D documentation. This free application is available for download anywhere in the world. Solid Edge 2D Drafting offers excellent drawing layout, diagramming, annotation and dimensioning controls that automatically comply with a wide range of drafting standards, including the International Standards Organization (ISO), American National Standards Institute (ANSI), British Standards Institution (BSI), German Institute for Standardization (DIN), Japanese Industrial Standard (JIS) and Italian Organization for Standardization (UNI). Visit [www.solidedge.com/free2d](http://www.solidedge.com/free2d) to download your free software and learn more.

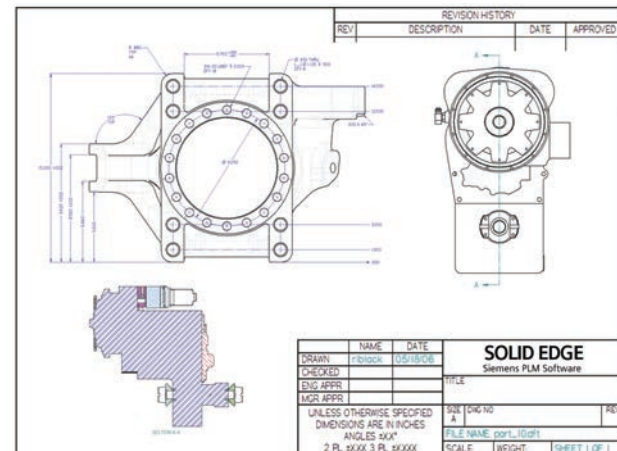
## Streamlined drawing creation

Solid Edge 2D Drafting demonstrates Siemens PLM Software's commitment to helping companies control costs. Whether you are using 2D company wide or for specific 2D design processes, you will benefit from Solid Edge 2D Drafting. Solid Edge 2D Drafting capitalizes on years of produc-

tion-proven capabilities developed for Solid Edge.

The innovative user interface includes SmartStep, which conveniently guides you through each command step. You have easy access to all inputs, quickly increasing your productivity. A new ribbon lists the most common operations on a home tab for fast command access.

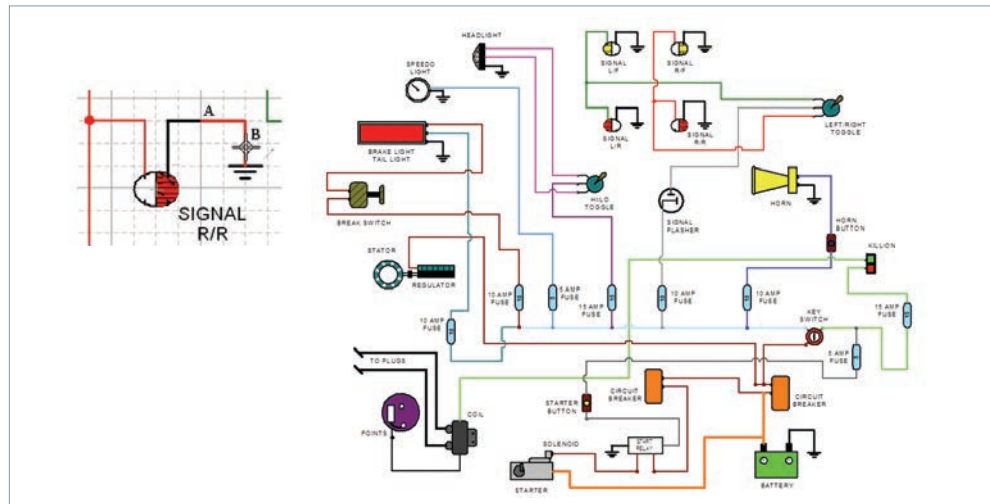
Intelligent 2D parametric relationships can be applied to geometry as it is created or



# Solid Edge 2D Drafting

## Features *continued*

- Diagramming for electrical and other schematics
- Translation wizards from AutoCAD and other 2D products
- Free to download and use
- Goal Seek for solving free-body diagrams



added later in the process. Relationships ensure the design intent is maintained. Line end connections, curve tangencies, parallel or perpendicular conditions, formula-driven dimensions ( $\text{Dim1} = \text{Dim2} + 50$ ) are just a few of the relationships you can apply to geometry. This intelligence is maintained across multiple views so that changing a diameter in a top view will automatically change the associated lines in adjacent orthographic views.

Solid Edge 2D Drafting includes comprehensive dimensioning and annotating tools that enable you to quickly create fully detailed drawings in seconds. With Solid Edge, you have full control over every element of your drawings, ensuring the requirements of organizational and international standards are met. Intuitive grid tools allow you to quickly sketch your designs with precision using a full suite of drawing tools that enable you to create all the geometric elements you require, including circles, arcs and curves in any style or color.

### Preserve and maintain your existing drawings

With Solid Edge 2D Drafting, you can continue to make full use of your existing 2D legacy data. Intuitive wizards provide robust translation of existing 2D files such as AutoCAD, while 2D drafting tools not

only emulate the workflows you already know, but offer additional capabilities as well. Solid Edge also provides a familiar process for generating detailed drawings from 2D layouts. Similar in concept to the model and paper space methodology in other 2D products, 2D layouts are designed on a 1:1 scale.

Multiple detail views of the layout are then created on separate drawing sheets. Each view can be scaled as required, while still maintaining correct dimensions and annotations. Any changes to the original 2D layout are automatically reflected in the detail views. These and many other customer-driven capabilities make Solid Edge 2D Drafting a compelling application for AutoCAD 2D users looking for more value and productivity from their 2D CAD seats.

### Diagramming

Solid Edge 2D Drafting features drag-and-drop diagramming capabilities using industry standard symbols (blocks) to automate the creation of 2D diagrams, such as those commonly produced for electrical and piping and instrumentation design (P&ID) layouts, without the need for dedicated schematic software. Blocks can support multiple occurrences of the same component and can represent alternate positions to ensure a correct bill of

materials (BOM). Not only does Solid Edge 2D Drafting deliver extensive built-in libraries, but you can use your existing block libraries without translation.

### Goal Seek

The Goal Seek functionality in Solid Edge provides a handy tool to simplify problem solving. Goal Seek combines a familiar free-body diagram approach with a powerful 2D parametric sketch solver to compute the geometry of the diagram. Users simply sketch the system in 2D, add some dimensions and any defining constraints and the system solves for the desired parameter – hence the term Goal Seek. Solid Edge computes and stores the most common measurements, such as distance, angles, perimeters and areas for fast problem definition, and includes intrinsic functions for doing math and trigonometry operations needed in complex equations.

Designers can realize significant downstream benefits by utilizing this simple but effective tool. Goal Seek eliminates the need to rearrange equations and, in many cases, removes the need to even develop equations. The results can ultimately control the size and position of 3D geometry and components, thus retaining the initial intelligence throughout the design process.

### Access to online support

This free download includes access to a dedicated support forum. Post questions, share ideas and learn tips from experts and other users. You can access the Solid Edge 2D Drafting forum via a web browser by following these instructions:

1. Visit <http://community.plm.automation.siemens.com/t5/Solid-Edge-User-Community/ct-p/solid-edge>
2. To post a question you will need to register for the web site by clicking 'Register' at the top of the web page
3. Select the proper forum in the list
4. Click on 'New Message' to post a question, or search through the existing posts to see if your question has already been answered

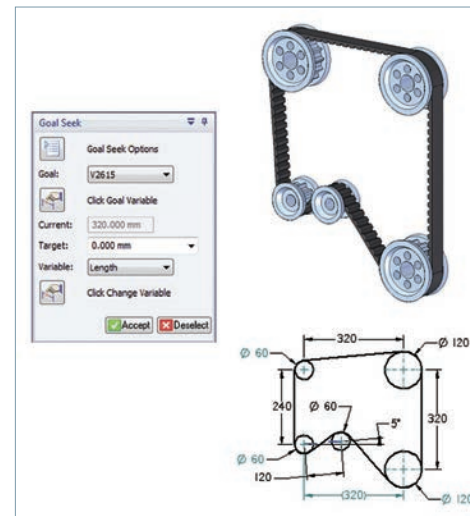
There is a Solid Edge 2D Drafting Forum that you can click on to post questions specifically related to 2D drafting.

If you have any questions on how to install or use the software, utilize this support forum.

### Higher productivity, lower costs

Solid Edge 2D Drafting allows Solid Edge customers to standardize on a single platform, reducing maintenance and training costs. You can share native Solid Edge drawings with your suppliers free of translation requirements while ensuring data integrity. Software maintenance with application programming interfaces (API) and automatic updates is also available to Solid Edge customers.

Keep your costs low with Solid Edge 2D Drafting, but easily move to 3D when more automated design is required – all on a single platform. Your data created in Solid Edge 2D Drafting can be used for 3D design in Solid Edge without fear of data loss or rework. You can produce superior visualizations for customer proposals, perform part-to-part interference checking for accurate preproduction designs and even use your models in downstream simulation and manufacturing applications. And with a 3D model you can generate automatic 2D drawings featuring orthogonal, section and detail views, dimension retrieval as well as automated parts lists. No matter where you are or where you want to go, Solid Edge 2D Drafting will help you design better.



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