

DIGITAL INDUSTRIES SOFTWARE

Solid Edge 2D Nesting

Optimize cutting patterns, saving time and material costs

Benefits

- Reduce time and material costs
- Automatically identify and place complex shapes and large quantities of shapes
- Improve workflow by combing work from multiple jobs
- Nest using multiple sheet sizes to reduce tailings or partial sheets
- Establish better costing estimates
- Fully integrated with Solid Edge, launches with a single click

Summary

Siemens Solid Edge® 2D Nesting is a powerful standalone module designed to generate optimized layouts for the two-dimensional cutting of fabrication materials, including sheet metal, plastic, wood, fabric and textiles. 2D Nesting saves fabricators time and money by allowing them to manage material use more effectively.

The process of 2D nesting, or the organization of 2D shapes efficiently on a single cutting plane, is much like processes dressmakers have used for decades. The optimized nesting patterns, created using a next-generation nesting algorithm, markedly reduce preparation time, waste and costs.

Powerful nesting, comprehensive control

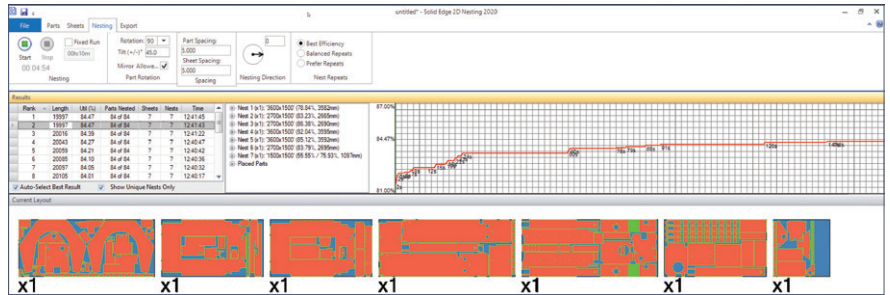
With the ability to select multiple sheet sizes and even odd-shaped sheets, 2D Nesting gives you the ability to select the most efficient nest, eliminating tailings, or partial sheets. These tailings often result in wasted material, as the odd leftover sheets take up valuable shop space and often go unused.

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Features

- Next-generation nesting algorithm
- Comprehensive, automated control of part quantities, sheet sizes and part rotation
- Continuous nesting improvement until user ends optimization
- Quick Cost Estimator calculates material costs based on user-defined values
- Job Multiplier accommodates multiple production runs in a single nest
- Automatic extraction flat pattern data from Solid Edge files
- Export data to Solid Edge CAM Pro for CNC programming



Solid Edge 2D Nesting automatically searches your assembly and identifies appropriate sheet metal documents. With assembly occurrence counts and the Job Multiplier, it is easy to quickly calculate the part amounts needed to manufacture multiple machines. These features and the cost calculator make calculating material costs simple.

Not only does Solid Edge 2D Nesting help you find excellent, efficient nests quickly and easily, but with a powerful algorithm that continuously seeks improvements, by searching for the optimal combination of sheets sizes and orientations to reduce waste. Users can predefine the algorithm’s runtime or stop the process once the right nest has been identified. With multiple nesting options, you can select the nest that best fits your needs.

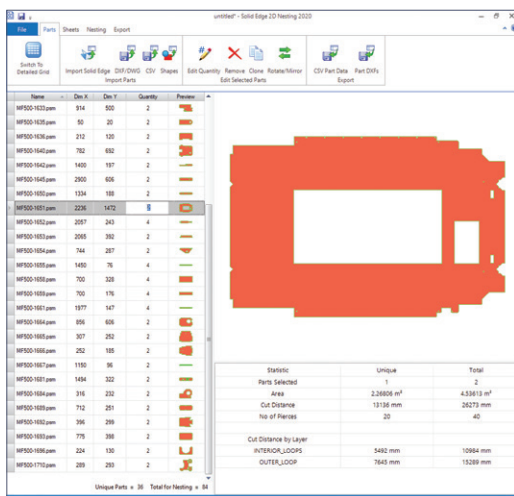
Integration with Solid Edge Mechanical Design and CAM Pro

Closely integrated with Solid Edge’s world-class portfolio of products, 2D Nesting launches from Solid Edge Mechanical Design with a single click. Selecting parts to import for nesting is quick and easy. 2D Nesting supports Solid Edge sheet metal and part files (PSM and PAR), as well as neutral data formats including DXF and DWG, automatically extracting flat pattern data.

Once shapes have been identified for nesting, you can easily adjust quantity requirements and investigate any shapes that may present issues during production. Intuitive controls and an easily understandable legend guide you through the process with rich visual feedback, displaying shapes as they are examined.

After you have selected the ideal nest, results can be quickly sent to Solid Edge Mechanical Design for additional drawings or to create detailed reports. The nests can also be sent to Solid Edge CAM Pro or exported to another computer-aided manufacturing (CAM) system for computer numerical control (CNC) programming. 2D Nesting can share data as Solid Edge part and drafting file formats (PAR and DFT) as well as DXF and DWG.

The integrated round trip within the Solid Edge environment saves time and avoids data translation. From start to finish, 2D Nesting makes creating optimized nests quick and easy.



Extending value

Solid Edge is a portfolio of affordable, easy to deploy, maintain and use software tools that advance all aspects of the product development process— mechanical and electrical design, simulation, manufacturing, technical documentation, data management and cloud-based collaboration.

Minimum system configuration

- Windows 10 Enterprise or Professional (64-bit only) version 1809 or later
- 16 GB RAM
- 65K colors
- Screen resolution: 1920 x 1080
- 8.5 GB of disk space required for installation

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