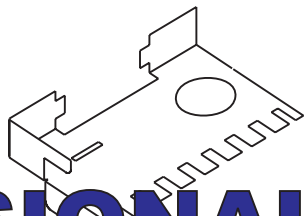


FAB PROFESSIONAL

Sheet Metal CAD/CAM



SS-Nest is a true-shape, multi-part nesting system designed to optimize the flow of your sheet metal manufacturing. SS-Nest optimizes the placement of parts and, when used in conjunction with the SS-Profile and/or SS-Punch manufacturing modules, decreases run times and costs of parts manufactured on your CNC burning, punching and combination machine tools.

SS-Nest features include:

- **Head Down Cutting with Feature Avoidance.** When used in conjunction with the SS-Profile manufacturing module, SS-Nest assists with head down processing on your CNC laser, plasma and burning machines. When cutting sheets, it is advantageous to keep the head of the torch down when moving between parts and between holes within a part. This reduces runtime by eliminating multiple head-up and head-down motions. When traveling with the head down previously burned areas must be detected and avoided.
- **Common Edge Cutting.** When used in conjunction with the SS-Profile manufacturing module, SS-Nest assists with common edge cutting on your CNC laser, plasma and burning machines. When cutting parts, it is often advantageous to position the edges of two parts together to be burned with a single pass of the torch. Common edge cutting reduces the length of the burn and eliminates pierce operations; thereby reducing the machine run-time required to process a nested sheet.
- **Preferential Hole Filling.** When parts are nested on a sheet, it is desirable that the parts are first nested inside the holes of larger, already nested parts, before moving to the rest of the sheet. This is because the holes are always cut and will be scrap if they are not filled up. Preferential Hole Filling reduces scrap, thereby reducing the manufacturing cost.
- **Master Plate Support.** Many times you are executing very large orders for nesting. You may want to reduce the number of distinct nested patterns; thereby reducing the number of different NC programs required to manufacture the nest. The Master Plate feature allows a single nested pattern to be created for the entire nest, or SS-Nest can be told to create as few nested patterns as possible while maintaining a user specified acceptable scrap level.
- **Filler Part Support.** Filler parts can be assigned to any nest job, but are only processed as space is available on the sheet(s). This allows open areas in the nest to be filled if the primary nest parts are too large to fill the space or if all of the primary nest parts are already processed and there is space remaining on the last sheet. Filler parts are often high volume parts that are required on a regular basis. Filler parts can greatly decrease scrap.
- **Grid Fit Nesting.** Grid Fit can be used to generate uniform gridlike arrangement of nested parts. Depending on the type of parts run, this feature may dramatically improve material utilization. A Grid Fit attribute can be attached to each part type. For a part to be nested with grid fit, SS-Nest first analyzes the part type and generates a suitable unit (i.e., either a single instance of the same part or a suitable pair) which can be repeated at fixed distances in horizontal and vertical directions.

SS-NEST

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- **Automatic Part Pairing.** Sometimes you get better-nested results if a part is paired with its copy rotated at 180 degrees and nested together. For example, if you are nesting a triangular shaped part the nesting is more efficient if this part is paired with its copy of rotated at 180 degrees and nested as a rectangle.
- **CAD Base.** SS-Nest is available as an AutoCAD integrated solution or as a stand-alone system using the AutoCAD OEM Engine as the core graphics handler. Either way, you receive CAD functionality beyond any other nesting software available. What does that mean to you? Flexibility. Last minute engineering changes mean parts in the nest have to be updated? No problem. One part in the nest has to be erased and another added in its place? Simple. The graphics capability of SS-Nest allows any part in the nest to be moved, copied, rotated, erased, etc. at any time!

Optional SS-Nest features:

- **MRP Interface.** SS-Nest can read an output file from standard MRP systems. This allows nest jobs to be created automatically, decreasing the time necessary to generate a nest and reducing the potential for costly input error!
- **Multiple Torch Nesting.** SS-Nest can generate nested layouts for cutting with multiple torches. For each sheet, you can specify the maximum number of torches with which the sheet can be cut. SS-Nest then intelligently nests various regions on the sheet for cutting with multiple torches. Parts can be nested to maximize the number of torches or parts can be nested in terms of their priority with the objective of maximizing the number of torches for the parts of the same priority.

SS-NEST REDUCES YOUR MANUFACTURING COSTS THROUGH

MATERIAL SAVINGS

Typical material savings range from 5% to 30% depending on your current manufacturing system.

REDUCED NC PROGRAMMING TIME

When used with Striker's SS-Profile and/or SS-Punch manufacturing software, SS-Nest can reduce NC programming time per part to a matter of seconds. And with the optional MRP Interface, operator input required to generate a nest is virtually eliminated.

REDUCED MANUFACTURING TIME

When used with Striker's SS-Profile manufacturing software, SS-Nest decreases the run-time of your CNC laser, plasma or burning machine through tool path optimization with head-down and feature avoidance technology, as well as common line cutting.

For additional information on SS-Nest or any of the Fab Professional sheet metal manufacturing products, call Striker Systems at:

1-800-950-7862



Fax: 615.672.5139 • E-Mail: sales@striker-systems.com • Web: www.striker-systems.com