

SigmaNEST COMPANION

SigmaNEST Companion™ is designed to be an easy-to-implement true shape nesting solution that can get users nesting more efficiently with wizard-based prompts. It is ideal for machine manufacturers who want to include added benefits to their equipment solutions, and for users who want a quick start to higher efficiency. SigmaNEST Companion works with profile cutting machines, including plasma, oxyfuel, and waterjet.

FEATURES

- Wizard-based prompts
- File import - DXF
- True shape nesting
- Automatic path generation
- Automatic NC code generation

ADVANTAGES

- One software to program all major profile cutting machines
- Little or no training required
- Quick and easy setup

BENEFITS

- Efficiently nest the first day using the machine
- Bolster machine efficiency
- Produce nesting layouts and NC programs effortlessly

WELCOME SCREEN

Companion's easy-to-use wizard directs the user to:

- Load an existing SigmaNEST file
- Load a DXF file to nest, or
- Create a new task

The user follows step-by-step directions with "Next" prompts on each screen. At any time the user can go back and edit any setting or part.

TASK PARAMETERS

Users can customize specifications including:

- Material type
- Sheet quantity, length, width, thickness
- Part clearance
- Edge distance
- Torch quantity and spacing
- Minimum torch distance
- Machine type, reference

PART MANAGEMENT

Companion users have the flexibility to load DXF files or choose from more than 190 standard shapes in the SigmaNEST library. After creating a parts list, parts can be deleted or edited according to a task's unique requirements. Automatic nesting of all parts quickly gives users the most efficient layout, at a simple click of a mouse.

TOOLPATH CREATION

Users can customize the toolpath for each task by entering preferences for:

- Block size
- Sort method (typewriter or zigzag)
- Path direction
- Kerf in control or computer
- Kerf lookup option
- Kerf radius and diameter

NC SIMULATE AND CODE

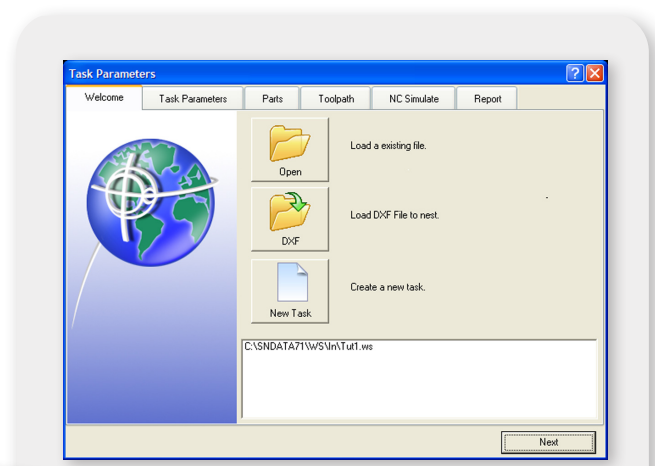
Companion offers users an accurate visual image of the cutting path for each task, giving a view of lead-in/-out points, and users can decide if any changes are needed to tasks parameters or parts.

Companion quickly and efficiently generates industry standard G and M codes for part production.

SUMMARY REPORT

After the NC code is generated, Companion creates a detailed report of the project, complete with charts and the nest layout graphics as a review of the sheet layout, toolpath, and other specifications.

Companion wizard welcome screen >>>



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