

SigmaNEST® for Router

SigmaNEST for Router offers an advanced nesting solution that optimizes the technology of a CNC router with high-efficiency nesting, superior part quality, and significant control of standard router cutting functions.

FEATURES

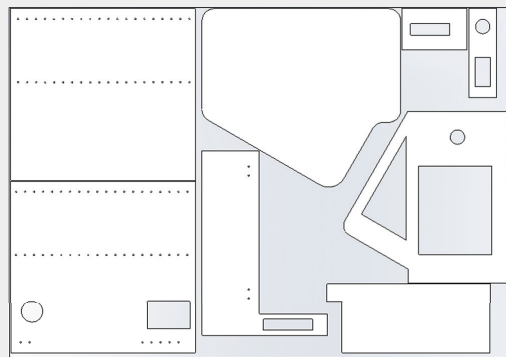
- Support for aggregate "I," "T," and "L" formations
- Advanced NC logic including spiral inward cutting for vacuum hold-down efficiency
- Support of automatic and manual cutting for multi-head machines
- Recognition of partial depth and part edge for "auto pocket destruct"
- Seamless importation from solid CAD programs with automatic recognition of 3D models with partial z-depth
- Automatic recognition for gang drilling
- Automatic auxiliary tooling for detail correction

ADVANTAGES

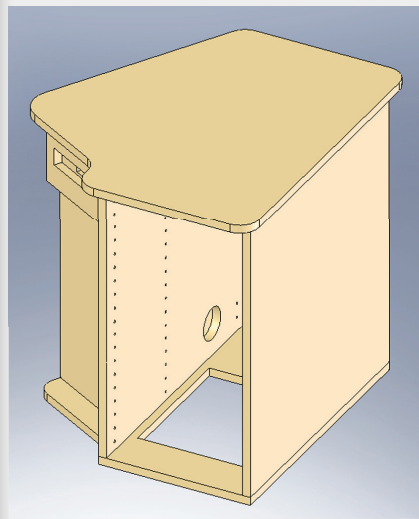
- One software to program all major profile cutting machines
- Customize tool order to optimize part quality
- Set multi-pass cutting by contour to reduce machine time, or nesting to increase vacuum efficiency
- Optimize balance between production throughput and material yield by using continuous nesting feature
- Minimize tool and spindle damage by applying "ramp up" lead-in/out
- Improve tool life and part quality with multi-pass cutting features allowing for step down cuts
- Onion skin tabbing considerably reduces cutting time

BENEFITS

- Produce nests and NC programs faster, with less scrap
- Increase profitability
- Extended tool life and lower tooling costs
- Improve machine time and reduce part movement by utilizing ramp lead-in tabs
- Optimize part results with grain constraint management
- Better planning with accurate time and cost estimates



Figures 1 & 2: Example of a routed cabinet and nest



TECHNICAL SPECIFICATIONS

- Store program as a drawing and extract parts from nesting program
- Validate files and filter geometry before creating parts
- Separate and store parts from a single file
- Map layers to processes or quality settings

CONTACT

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