Hypertherm®

TurboNest®

Nesting software | 2015

Intermediate nesting

TurboNest is a best in class CAD/CAM nesting software for intermediate level mechanized cutting. It provides a single solution for conventional plasma and oxyfuel cutting. It is specifically designed to help fabricators and manufacturers increase material savings, boost productivity, lower operating costs, and improve part quality.

Why choose TurboNest?

Process expertise

Compared to other products in its class TurboNest does more to automatically embed cut process expertise into the NC code. Whether it's material type, thickness, or grade, TurboNest is drawing on years of research and development to deliver the optimal adjustments including leads, separations, kerf, feedrate, and cutting techniques.

The Hypertherm difference

TurboNest is brought to you by Hypertherm, the cutting experts with nearly 50 years of experience and 115 cutting technology patents to their name. When using TurboNest you are gaining access to a wealth of knowledge and experience.
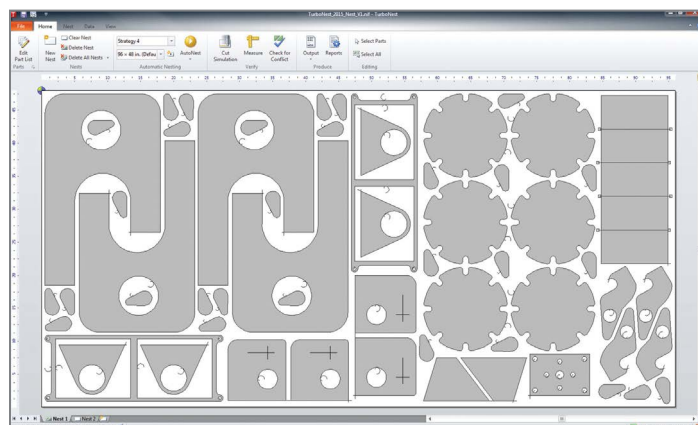
TurboNest 2015 nesting screen featuring Automatic Nesting and Common Line Cutting

Ease of use

Users agree that TurboNest is surprisingly easy to learn and use compared to other nesting products. Our intuitive software only requires one interface, and users do not have to switch between different programs to complete the job. Your team will be up and running faster, and will be able to complete the job in fewer steps.

Technical support

Customers consistently report that TurboNest has the best technical support in the industry. Our team is fast, friendly, and professional, allowing you to get back to work sooner.

Standard features highlights

Cut process support

- Plasma (conventional)
- Oxyfuel

Machine support

- All major brands

Part design and development

- Integrated 2D CAD program to create and edit CAD files
- Variable Shape Parts feature to develop common parts from templates

CAD/CAM import and conversion

- Import CAD files (industry-standard file formats)
- Automatic CAD file correction and error notification
- Automatic spline / ellipse smoothing and reduction
- Separate multiple parts from a single CAD file
- Automatic mapping of CAD layers to processes (cut, mark)

Standard features highlights, continued

Job set-up

- Material database (with grade and gauge)
- Custom remnant creation (define irregular shapes for nesting)

Built-in process expertise/machine configuration

- Material type, thickness, grade and class-based process parameters:
    - Separations for part, plate, and pierce spacing
    - Kerf and feedrate
    - lead-in/out
    - Cutting techniques
- Automatic and manual nest sequencing
- Grain constraint
- Edge pierce technology
- Safe zones for plate clamping applications

Interactive manual nesting

- Group parts into clusters for nesting
- Drag, drop and bump parts on the nest
- Move, mirror, rotate, or array parts
- Prohibit / permit nesting inside of a part
- Part interference detection
- Edit lead-in/out position and properties within the nest
- Animated cutting sequence simulation
- Control cut direction and cut sequencing on part-by-part basis
- Plate cropping

Reporting

- Management and shop reports
- Export reports directly to PDF, Excel Spreadsheet, CSV, or webpage

Costing

- User-defined machine and labor production costing
- Automatic calculation of part production costs and part/nest utilization

Output

- Post-processor with NC output
- Automatic kerf/pre-kerf compensation
- DXF output

Optional modules

TurboNest's modular structure means you only purchase the tools you need.

Productivity modules

- Automatic Nesting
- Common Line Cutting
- Chain Cutting
- Bridge Cutting
- Skeleton Cut-Up

3D Process modules

- Pipe (Parametric Fittings)

Visit our website www.hypertherm.com/CAM or contact your trusted partner to request a free production trial.

Greener Cuts

Hypertherm®

Cut with confidence®