



ProNest® 2019

CAD/CAM Nesting Software

Accomplish more with ProNest

ProNest is an industry leading CAD/CAM nesting software designed for advanced mechanized cutting. It provides a single solution for all of your profile cutting needs, including plasma, laser, waterjet, and oxyfuel.

ProNest helps fabricators and manufacturers increase material savings, boost productivity, lower operating costs, and improve part quality by offering the highest level of cutting expertise.

The Hypertherm CAD/CAM difference

Across the globe, Hypertherm products are known for quality, consistency, and reliability, and it's no different with our advanced CAD/CAM software.

More leading experts, including OEMs and distributors of cutting machines, choose ProNest than any other brand. It is the only software with full support for Hypertherm SureCut™ technology, including True Hole®, Rapid Part™, and True Bevel™, plus easy setup, and optimized process parameters.

Finally, ProNest is backed by Hypertherm's global network of professionals, meaning you'll always have access to the service and support you need.



Standard feature highlights

Machine support

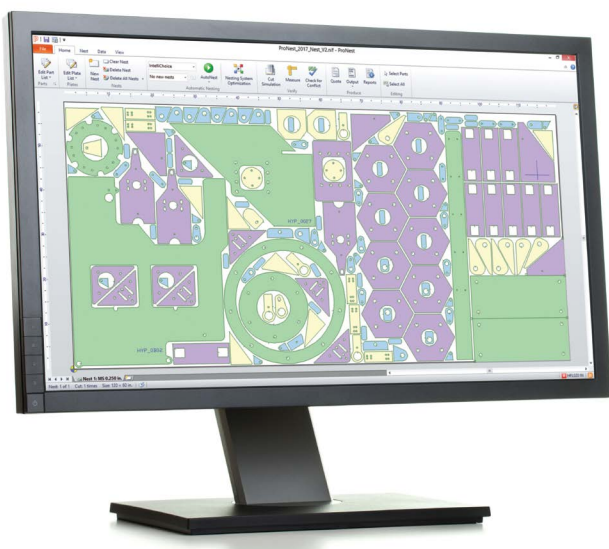
- All major brands/manufacturers/models

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)
- Raster to vector converts static images to CAD
- Import Bill of Materials properties from CAD files
- 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)
- Automatic update of nest for part revisions
- Automatic part corner radiusing for optimized laser cycle time and part quality



Industry 4.0 automation



ProNest® not only drives your machines, it is also a key component of your entire cutting and fabricating operation, moving seamlessly from quoting to reporting, and everything in between. ProNest also connects to ERP/MRP for real time data exchange.

Standard feature highlights, continued

Job set-up

- Material database (with grade and gauge)
- Customer database
- Custom remnant creation (define irregular shapes for nesting)
- Plate list
- Part library
- Assembly database
- Grain constraint
- Safe zones for plate clamping applications
- Multi-head cutting

SureCut™ technology and built-in process expertise

- True Hole® technology capable*
- Rapid Part™ technology capable*
- True Bevel™ technology capable*
- Advanced process support and job set up on the CNC*
- Material type, thickness, grade and class-based process parameters:
 - Separations for part, plate, and pierce spacing
 - Kerf compensation and feedrate
 - Quality and dynamic feedrate calculator for waterjet
 - Lead-in/out style optimized for part geometry and quality
 - Cutting techniques

- Pre-pierce and edge pierce
- Moving pierce techniques for waterjet
- Disable automatic height control based on part geometry
- Pre-heat timing for oxyfuel
- Cut sequencing – automatic or manual
- Vaporize protective film layer prior to laser cutting
- Automatic tabbing/micro-joints
- Fly cutting
- Slug destroy

Interactive manual nesting

- Jobs can contain sheets for different material types, thicknesses, and classes
- Color parts according to part property
- Group parts into clusters for nesting
- Drag, drop, bump, and auto-bump parts on the nest
- Move, mirror, and drag to rotate 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



Standard feature highlights, continued

Reporting

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

Costing and quoting

- User-defined machine and labor production costing
- Automatic calculation of part production costs and part/nest utilization
- Quoting tool including itemized part costs, secondary processes, markups, and discounts

Output

- OneClick™ feature runs all of your most common job tasks automatically
- Post-processor with NC output
- DXF output

*Certain hardware and software requirements may apply.

Optional modules

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

Productivity modules

- Automatic Nesting
- Nesting System Optimization
- Common Line Cutting
- Collision Avoidance
- Chain and Bridge Cutting
- Skeleton Cut-up

Enterprise modules

- Data Sync
- Plate Inventory
- Work Order Processing

3D process modules

- Pipe and Fittings
- SOLIDWORKS® software interface
- Inventor® software interface
- Creo™ Parametric (formerly Pro/E) software interface

Machine interface modules

- Reposition machine interface
- Bevel machine interface
- Drill machine interface
- Plate machine interface

Request a free trial at: www.hypertherm.com/CAM

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Environmental stewardship is one of Hypertherm's core values, and it is critical to our success and our customers' success. We are striving to reduce the environmental impact of everything we do. For more information: www.hypertherm.com/environment.

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