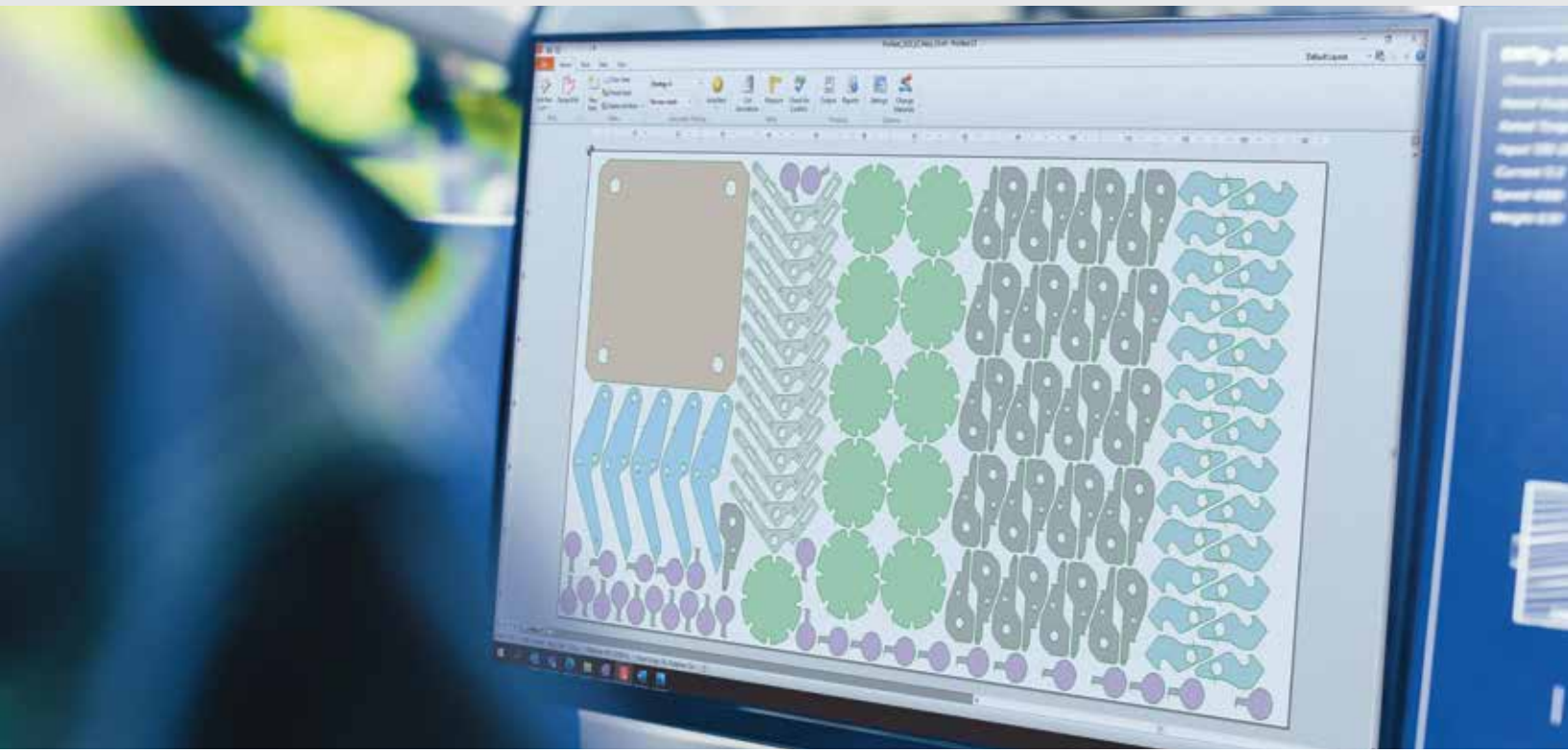
ProNest® 2027 LT
CAD/CAM NESTING SOFTWARE

Hypertherm Associates
Software Group

CAD/CAM nesting software



ProNest LT is a powerful CAD/CAM part nesting software, yet easy to learn and use. It's designed for light industrial, mechanized cutting and provides professional grade cut quality at an affordable price, allowing doers, makers, and fabricators of all sizes to get the most out of their air plasma, oxyfuel, and select waterjet, or laser machines.

Benefits

Ease of use

Incredibly easy to learn and use, with intuitive screens, and a wide variety of helpful features.

Built-in design tools

Import CAD files, artwork, and signs, or create your own designs using powerful built-in tools.

Better part quality

Hypertherm's built-in expertise means the best possible cutting parameters are applied for each job's unique needs, resulting in sharper corners, cleaner edges, and improved hole quality.

Automatic nesting

Nest jobs even more quickly and efficiently using intelligent auto nesting strategies.

Increased productivity

Features like Common Line Cutting and Chain and Bridge Cutting (part of the Productivity Pack) can increase efficiency, and reduce cutting time and consumable wear.

Unlimited technical support

Unlimited access to technical support, training, and software updates is included with your purchase.

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)
- Import PDF
- Import OMX or ORD
- Raster to vector converts static images to CAD
- 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)

Job set-up

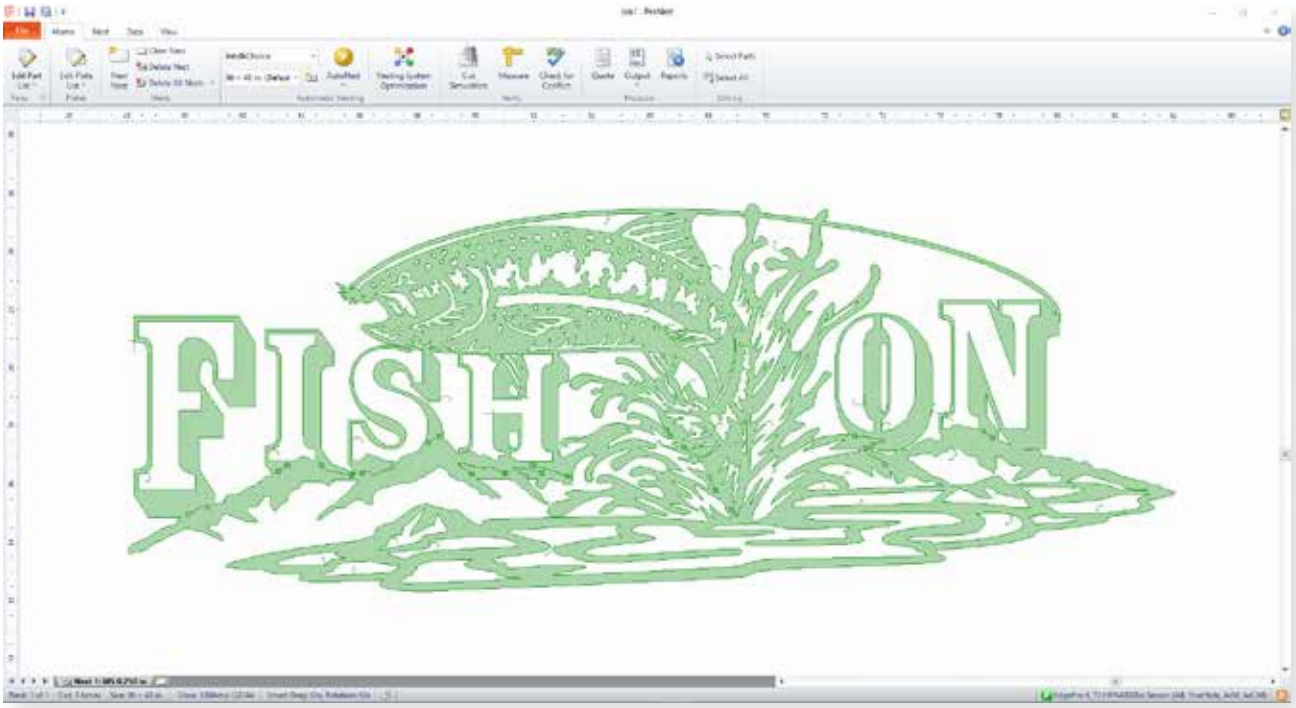
- Material database (with grade and gauge)
- Custom remnant creation (define irregular shapes for nesting)
- Grain constraint
- Safe zones for plate clamping applications
- Multi-head cutting

Built-in process expertise

- Material type, thickness, grade and class-based process parameters:
  - Separations for part, plate, and pierce spacing
  - Kerf compensation and feedrate
  - Lead-in/out style optimized for part geometry and quality
  - Cutting techniques
  - Disable automatic height control based on part geometry
  - Pre-heat timing for oxyfuel
- Cut sequencing – automatic or manual
- Pre-pierce and edge pierce
- Support for Powermax® SYNC HySpeed® technology
- Support for Powermax® SYNC Optimized Hole
- Support for OMAX quality settings

Use the Variable Shape Part Library to quickly design parts.





Supports detailed metal art and sign making.

Standard feature highlights, continued

Interactive manual nesting

- Group parts into clusters for nesting
- Color parts according to part property
- Drag, drop, and 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
- Nest around material defects for waterjet
- Waterjet quality

Automatic Nesting

- Two rectangular nesting strategies
- Four True Shape nesting strategies

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
- DXF output
- OMX or ORD output

Modules

The following modules can add powerful capabilities to your software.

Productivity modules

- Advanced Automatic Nesting
  - Two rectangular nesting strategies
  - Ten True Shape nesting strategies
  - IntelliChoice
  - Nest multiple materials at a time
  - More powerful nesting algorithm
- Productivity Pack (Common Line Cutting, Chain and Bridge Cutting, and Skeleton Cut-up)

Enterprise modules

- Quote Tool

3D process modules

- Pipe and Fittings
- SOLIDWORKS® software interface
- Inventor® software interface

SHAPING POSSIBILITY®

PLASMA | LASER | WATERJET | AUTOMATION | SOFTWARE | CONSUMABLES

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