# Hypertherm®

# ProNest®

## Nesting software | 2015

### Advanced nesting

ProNest is an industry leading CAD/CAM nesting software for advanced mechanized cutting. It provides a single solution for all of your profile cutting needs, including plasma, laser, waterjet, and oxyfuel. It is specifically designed to help fabricators and manufacturers increase material savings, boost productivity, lower operating costs, and improve part quality.

### Why choose ProNest?

#### Process expertise

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

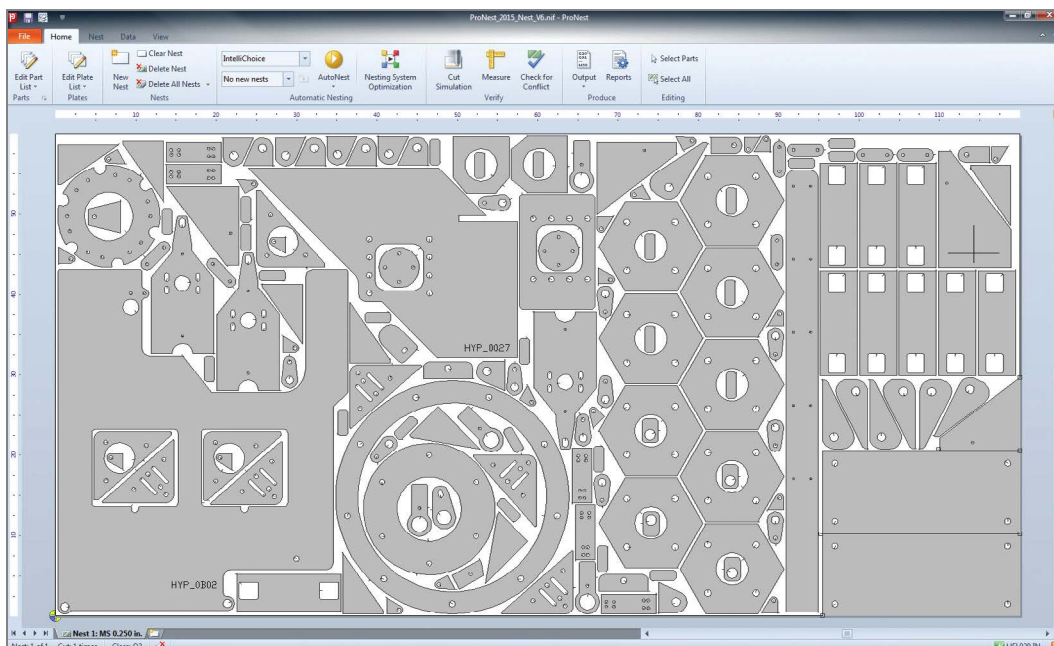#### Breakthrough technologies

ProNest is brought to you by the cutting experts at Hypertherm. This allows you to leverage breakthrough cutting technologies like True Hole® and Rapid Part™, which are delivered automatically without operator intervention, and True Bevel™ which greatly reduces bevel set up time.

#### Ease of use

Users agree that ProNest is surprisingly easy to learn and use, particularly compared to other advanced 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 ProNest has the best technical support in the industry. Our team is fast, friendly, and professional, allowing you to get back to work sooner.



ProNest 2015 nesting screen featuring new IntelliChoice™ Automatic Nesting strategy.

## Standard features highlights

### Cut process support

- Plasma (conventional or high definition)
- Laser ($CO_2$ or fiber)
- Oxyfuel
- Waterjet
- Combination punch plasma/laser

### Machine brand support

- All major brands/manufacturers

### 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 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)
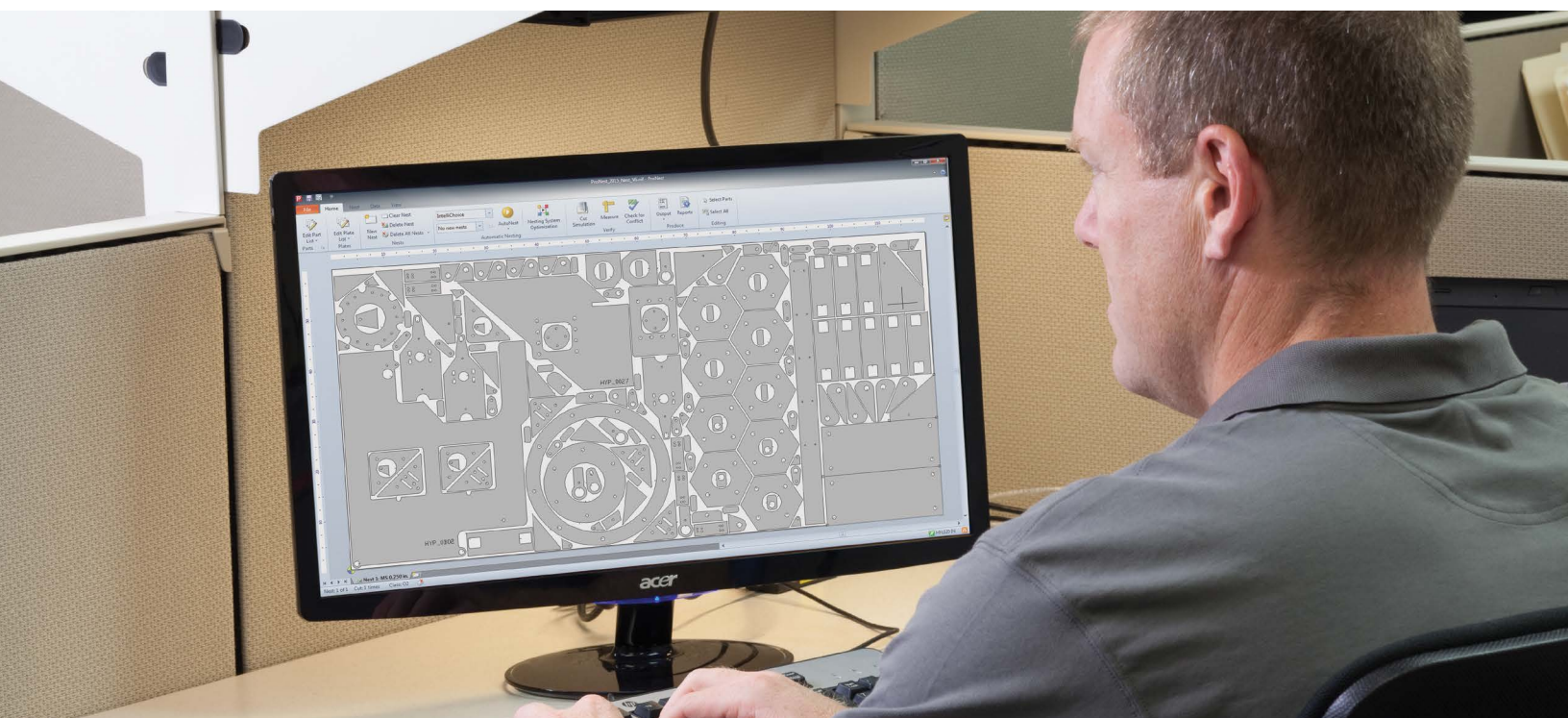- Automatically update nest with part revisions

### Built-in process expertise/machine configuration

- True Hole® technology capable*
- Rapid Part™ technology capable*
- True Bevel™ technology capable*
- Automated job set up on the CNC (EDGE® Pro, MicroEDGE® Pro)
- 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
- Automatic tabbing/micro-joints
- Safe zones for plate clamping applications
- Multi-head cutting with automatic head selection and variable torch spacing

### 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

*Certain hardware and software requirements may apply.

## Standard features highlights, continued

### Interactive manual nesting

- Sheets with multiple material types, thicknesses, and classes per job
- 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

- OneClick™ feature runs all of your most common job tasks from Automatic Nesting to output and more
- Post-processor with NC output – Automatic kerf/pre-kerf compensation
- DXF output

## Optional modules

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

### Productivity modules

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

### Enterprise modules

- Nesting System Optimization
- Work Order Processing
- Plate Inventory

### 3D Process modules

- Pipe (Parametric Fittings)
- SolidWorks® Software Interface
- Inventor® Software Interface
- Creo Parametric® (Formerly Pro/E) Software Interface

### Machine Interfaces modules

- Reposition Machine Interface
- Bevel Machine Interface
- Drill Machine Interface
- Plate Machine Interface

## Nearly 50 years of cutting excellence

At Hypertherm, our sole focus is cutting. Every Associate – from our engineers to our manufacturing and service teams – is completely focused on providing our customers with the best cutting solutions in the industry. It's a mission stretching back nearly 50 years to our first industrial cutting patent. Today, our patent wall continues to expand as we innovate tirelessly to introduce new plasma, laser and waterjet technologies and services that will help you achieve optimal cutting outcomes that support your business objectives. So, whether you're cutting precision parts in North America, constructing a pipeline in Norway, fabricating agricultural machinery in Brazil, gouging out welds in the mines of South Africa, or building a skyscraper in China, you can count on Hypertherm. No matter what you cut, where you cut, or how you cut, we are here to guide you toward the cutting solution that is right for you.

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

**Greener Cuts™**

# Hypertherm®
## Cut with confidence®