

ProNest product comparison guide

The following guide highlights key features only. For more details, please contact a Hypertherm representative.

Key features legend

- Advanced
- Intermediate

	ProNest	ProNest LT
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Machine support

All major brands/manufacturers/models	●	●
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Cut process support

Plasma – conventional air /oxygen (ex. Powermax [®] , MAXPRO [®])	●	●
Plasma – high definition / high current density (ex. XPR [®] , HyPerformance [®])	●	
Laser – fiber (ex. HyIntensity [™]) CO ₂ , direct diode	●	
Waterjet	●	●
Oxyfuel	●	●

Secondary process support

Scribe / Mark	●	●
Center mark	●	●
Beveling	●	
Drilling	●	
Plate processing	●	
Repositioning (ex. combination punch plasma or laser)	●	

Standard features

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	●	●
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	●	

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Standard features 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

True Hole [®] technology capable*	●	
Rapid Part [™] technology capable*	●	
PlateSaver [™] technology capable*	●	
True Bevel [™] technology capable*	●	

Built-in process expertise

Advanced process support and job set up on the CNC*	●	
Material type, thickness, grade and class-based process parameters:	Automatic	Automatic
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	●	

*Certain hardware and software requirements may apply.

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Standard features continued

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Built-in process expertise continued		
Fly cutting	●	
Nest around material defects for waterjet	●	●
Waterjet quality	●	●
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	●	●
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	●	●

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Modules

Productivity modules		
Automatic Nesting	●	○
Nesting System Optimization	●	
Common Line Cutting	●	●
Collision Avoidance	●	
Chain and Bridge Cutting	●	●
Skeleton Cut-Up	●	●
Enterprise modules		
Data Sync	●	
Work Order Processing	●	
Plate Inventory	●	
3D Process modules		
Pipe and Fittings	●	
SOLIDWORKS® software interface	●	
Inventor™ software interface	●	
Creo Parametric® software interface	●	

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Visit our website www.hypertherm.com/CAM to request a free production trial.

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