

ProNest® 2010 Nesting Software

This nesting software is specifically designed for advanced profile cutting applications using Plasma, Oxyfuel, Laser, Waterjet, and Plasma/Laser Punch combination machines. By combining ProNest's standard features with any of the add-on modules of your choice, you can build a nesting solution that is perfectly suited for your application. Additional modules may be easily added at any time in the future as the need arises. To find out more about ProNest, call us at 716-434-3755 or visit www.mtc-software.com.

To assist you in selecting the right ProNest options for your operation, we have included process icons in the options section of this price list to indicate the cutting processes that will typically benefit from that optional module. Keep in mind that your situation is unique and that any optional module may warrant consideration, even if a process icon(s) is not displayed. Remember that MTC is always ready to help should you have any questions.




 Plasma
  Laser
  Oxyfuel
  Waterjet
  Punch/Plasma
  Punch/Laser
  Punch

Product Code	Unit Name	Unit Price
PN-2010-000	<p>ProNest</p> <p>Standard Feature Summary</p> <p>CAD/CAM Import, Conversion, and Part Development</p> <ul style="list-style-type: none"> - Import and automatic conversion of *.dxf, *.dwg, *.iges, *.dstv, and various other CAD file formats - Import and automatic assignment of CAD layer(s)/color/quality information for cutting, scribing, and punching processes - Clean-up of CAD file layers, profiles and entities - Automatic entity reduction and smoothing produced from jagged line, polyline, and spline entities - Import and automatic assignment of Bill of Materials properties (quantity, material, thickness, etc.) from CAD drawing - Import delimited text file of part and plate list Information (quantity, material, thickness, etc.) from external sources, including MRP/ERP systems - Variable shape parts library to create commonly used geometric parts within ProNest - Problem CAD files are automatically corrected or flagged for a simple manual edit (edit entity quality, delete entities and profiles, close open profiles, etc.) - Cut direction and sequencing are automatically assigned on import plus tool-paths are generated on-the-fly - Automatic assignment of material-based lead in/out style (arc, linear, linearc) and size on import - Ability to import and separate multiple parts from a CAD drawing - Auto-tabbing technology - Rotation restriction capability to manage part grain constraint during manual and automatic nesting <p>Interactive Manual Nesting</p> <ul style="list-style-type: none"> - Customizable material thickness database and sheet X-Y dimension list - Edit lead in/out position and style before and/or after parts are nested - Independent and material-based part, plate, and pierce separation control - Advanced drag-and-drop, copy, bump, mirror, rotate, cluster, and array functionality - Part interference detection - Edge piercing technology - Interactive and automatic plate cropping - Basic multi-head support with head selection and spacing - Safe zones for material clamping applications - Automatic and manual nest sequencing based on a variety of strategies - Animated cutting sequence simulation - Material-based process parameters with feedrate and kerf, auto-height control lockout and quality support - Material-based cutting techniques for corner, radius, lead-in/out ramping functionality <p>Costing, Reporting, and Systems Interface</p> <ul style="list-style-type: none"> - Production cost parameters including material database with unit price, scrap value, and density - Automatic calculation of nest and job properties; including utilization percentage, production time, part and plate costs, etc. - Standard and customizable shop reports that may be printed or exported in PDF format <p>Code Generation and CNC Output</p> <ul style="list-style-type: none"> - Flexible CNC post-processor and machine X-Y axis configuration - Automatic NC code generation, by individual nest or entire nested job - Pre-piercing, pre-kerfing, and step and repeat technology - Include advanced NC output for feedrate, kerf, auto-height control on/off, cut and pierce conditions, sub-routines, abrasive on/off, dwells, etc. (some features may require an advanced post processor) 	\$5,000

ProNest Optional Modules







Automatic Nesting Modules





Automatic nesting allows parts to be nested with the click of a button. As a result, nests are created more quickly and more efficiently, reducing programming time, improving material utilization, and providing significant overall cost savings. Various automatic nesting options are offered to meet the needs of different users. Select one or more modules.




















PN-2010-100	Pattern Array Nesting  <p>Pattern Array Nesting is a single part, automatic nesting strategy. Using complex cluster-building arraying technology, it is an excellent choice for nesting individual parts with large quantities. More parts can be added onto a sheet; and nested next to the pattern array of the first part, to create multiple part nests with ease.</p>	\$1,500
PN-2010-101	Rectangular Nesting  <p>Rectangular Nesting is an ideal, low cost solution for users with a limited budget and for those nesting mostly square/rectangular parts. Rectangular Nesting is designed to nest using the maximum square/rectangular region surrounding a part's exterior profile.</p>	\$1,500
PN-2010-102	True Shape Nesting (includes Pattern Array Nesting PN-2010-100)  <p>True Shape Nesting is comprised of various powerful and intelligent true-shape nesting algorithms. A combination of technologies, such as Pattern Arraying, True Shape Nesting with part-in-part void filling and others, may be employed for varying applications to provide users with unsurpassed nesting results. Because of the versatility and performance provided by this module, it is ProNest's most popular add-on module.</p>	\$3,500



















Productivity Modules















Productivity modules are options designed to help users become more productive and reduce operating costs. The modular design of the software gives the user the needed flexibility to choose the Productivity Tool(s) that benefits them for their specific process and application.

PN-2010-200	Common Line Cutting  <p>Common Line Cutting allows two or more parts to be cut with a common line. These cuts can be generated manually or automatically as pairs, quads or arrays. Kerf compensation is performed automatically to provide geometric accuracy. Tremendous productivity gains from cycle time reduction and material savings can be achieved using this option.</p>	\$1,000
PN-2010-201	Advanced Common Line Cutting (includes Common Line Cutting PN-2010-200)  <p>Advanced Common Line Cutting, in addition to the features offered by the Common Line Cutting module, adds the ability to create complete common line nests using unlimited quantities of unique parts. Consequently, users are not limited to only pairs, quads, and arrays. The tool-paths for common line parts can be edited. Parts can also be joined with the plate edge, thus eliminating unnecessary cuts. Safety cuts can be implemented to avoid head crashes. Highly efficient nests with drastically reduced cutting times may be developed quickly and easily.</p>	\$2,000
PN-2010-202	Chain Cutting  <p>Chain Cutting provides a way of linking a variety of parts with a continuous cut, and can be created manually or automatically into an array. This option offers a significant savings potential by minimizing pierces, thus lowering consumable costs. In addition, chain cutting will reduce Z-axis machine motion, resulting in substantial time savings.</p>	\$1,000
PN-2010-203	Bridge Cutting  <p>Bridge Cutting allows two or more parts to be linked by a thin web of material (bridge). Interactive controls can be used for determining the width and radius of the bridge. The benefits of the module vary by process and application. Bridges can hold parts together, making them less prone to the effects of thermal movement, thereby improving geometric part accuracy. Bridges also reduce the number of pierces needed, which can save time and reduce consumable costs. In addition, bridging small parts can prevent tip-up situations and keep parts from falling into the cutting table.</p>	\$1,000
PN-2010-204	Collision Avoidance  <p>Collision Avoidance has two functions. First, to avoid potential tip-up scenarios, it can position the lead-in/outers for interior and exterior profiles in such a way, that the cutting head always moves away from previous cuts. This can allow the cutting head to stay down continuously and fully retract only when forced to cross a potential hazard. Second, the module optimizes the internal cut-sequence for interior profiles and the traverse path, avoiding unnecessary machine travel time. The reduction in Z-axis motion and traversing will offer significant time savings, while the head crash protection can prevent unnecessary down time and expensive equipment repair/replacement costs.</p>	\$1,000
PN-2010-205	Variable Multi-Head Cutting  <p>Variable Multi-Head Cutting automatically adjusts both the number of cutting heads and/or the spacing used for the parts nested. Extremely useful during manual and automatic nesting, the module provides the exact torch spacing necessary to maintain the smallest possible part separation, irrespective of the rotation angle of the part. In addition, the maximum number of cutting heads that may be used for the job will be applied. Benefits include cost savings from improved material utilization and productivity.</p>	\$500

PN-2010-206	Skeleton Cut-Up    Skeleton Cut-Up manually and/or automatically divides a sheet into user-definable, external and internal grids, for easy material removal from the cutting table. The skeleton cuts are made before or after parts are cut. Benefits of the module include faster and easier material handling and safety from handling smaller, lighter segments of plate.	\$500
PN-2010-207	PIPE – Parametric Fitting Module (Includes DXF Post Processor PN-2010-609)  This parametric library is designed to automatically generate flat-pattern developments for fabricated, welded, cylindrical pipe joints, and transitions used in blowpipe applications. It's a flexible solution for users creating their own pipe developments. The interface provides developments for Offset Cone, Reducing Elbow, Ellipse, Ellipse in Rectangle, Flange, Angled Pipe, Straight Pipe, Offset Pipe, Rectangle to Round, Segmented Elbow, Tee into Partial Pipe, and Y-Joint. Most developments can be customized to add various shaped tee branches in Conical, Cylindrical, Rectangular, or Boot format. A comprehensive settings menu allows users to prepare developments specifically for their application and cutting processes. Compared to developing these types of fittings in CAD, the programming time savings is immense. The resulting part fit-up is superior, leading to reduced weld preparation and improved seam and joint weld quality. Those who develop pipe will recognize that this option will pay for itself in a very short time period.	\$3,000

Material and Inventory Optimization Modules		
As material costs and inventory investments continue to rise, MTC's range of Material and Inventory Optimization tools become ever-more valuable. These options have been developed to have a direct impact on use of material; helping to reduce costs by improving material utilization.		
PN-2010-300	Plate Inventory (includes Custom Remnants PN-2010-302)       Plate Inventory permits the creation and storage of rectangular, irregular and circular plates in an internal database. All new stock plates may be added to the plate inventory and utilized on an ongoing basis. Irregular and circular plates may be saved as remnants and skeletons from the nesting interface, imported from a CAD file, or created via the Custom Remnants module. As plates are consumed during nesting, the inventory is updated. Users may assign properties to each plate (Material and Thickness, Heat Number, Stock Number, Unit Price, Stock Quantity, Weight, Reserved, Reorder Quantity, Supplier, etc.). Ideal for use as an independent ProNest option or integrated within a larger manufacturing system, this module will reduce material inventory and improve material utilization, in addition it's a perfect tool for inventory traceability.	\$2,500
PN-2010-301	Part Inventory and Assembly       Part Inventory and Assembly stores a list of parts that need to be cut more than once in an internal database. This database might include a part list of both modified files and unmodified part drawing files. The parts in Part Inventory may be used to create a nest part list or assemblies. Using assemblies can significantly speed up the process of importing parts. All parts assigned to a given assembly, including varying materials, are imported on-the-fly.	\$1,000
PN-2010-302	Custom Remnants     Custom Remnants is specifically designed for users who want to nest on irregular-shaped sheets but cannot, or do not, want to keep track of their remnants in a complete inventory system. This module allows the creation of irregular plate geometries based on a series of reference points on an XY plane. Reference points may be specified in either absolute or incremental coordinates. Remnants that are created in ProNest may then be used for immediate nesting or stored in the optional Plate Inventory module for use at a later time.	\$500
PN-2010-303	Nest Background Image  Nest Background Image is ideal for applications where the source material has surface defects. Users take a digital picture of the material, and then superimpose the image onto the ProNest work area, allowing manual nesting to occur around any blemishes. Having the ability to see the superimposed material image while nesting, eliminates guess-work, and provides a great deal of programming time savings in the process.	\$500
PN-2010-304	Nesting System Optimization   (requires Rectangular Nesting PN-2010-101 or True Shape Nesting PN-2010-102) Nesting System Optimization is the ultimate solution for maximizing productivity and material utilization. It is ideal for users who are producing larger nests and have many sheet sizes to choose from. By comparing the nest utilization among selected automatic nesting strategies on any available plate from inventory, plate list, or coil; ProNest will dictate the best combination for each nest in a given job. This option can provide countless savings in the form of reduced programming time, improved material utilization, and reduced material inventory.	\$3,000

3D CAD Interface Modules		
For users working with 3D CAD software, MTC works continuously to provide ProNest interfaces for the most commonly used programs. Import files from the most commonly used industry 3D CAD formats into ProNest with ease, using one of these available interfaces.		
PN-2010-400	SolidWorks® Interface       <p>Profile and assembly files (*.sldprt;*.sldasm) can be added directly into ProNest's part list. ProNest will open SolidWorks (if required) and import the defined geometry based on the profile's model view. A SolidWorks license must reside on the same PC running ProNest.</p>	\$2,500
PN-2010-401	Inventor™ Interface       <p>Profile and assembly files (*.iam, *.idw, *.ipt) can be added directly into ProNest's part list. ProNest will open Inventor transparently (if required) and import the defined geometry based on the profile's model view. An Inventor license must reside on the same PC running ProNest.</p>	\$2,500
PN-2010-402	Pro/ENGINEER® Interface       <p>This module installs directly into Pro/Engineer. It enables Pro/Engineer to export a part's geometry and BOM information into ProNest. Assembly files are also supported.</p>	\$5,000

System Interface Modules		
Select one of the following modules to expand ProNest's capabilities allowing programming for advanced cutting processes and integration with an enterprise business system (ERP/MRP).		
PN-2010-500	Punch/Plasma or Punch/Laser Interface (includes one Punch/Plasma or Punch/Laser Post Processor PN-2010-604)   <p>This option provides the advanced features required to effectively run Punch/Plasma and Punch/Laser combination machines. These features include: automatic tool recognition, automatic and manual clamp positioning, reposition management, automatic trap/drop door utilization including "slide moves", manual and automatic splitting of long profiles, part processing options including part-by-part and first part inspection as well as support for plate and part loading and unloading systems. The post processor also features an automated simulation for tool path verification, automatic error check for over-tonnage and tool diameter problems and a tooling report for the operator that shows tool loading information, suggested die sizes and production time estimates.</p>	\$6,000
PN-2010-501	Rotary Bevel Interface (includes one Rotary Bevel Post Processor PN-2010-605)  <p>For users operating a cutting machine equipped with a programmable bevel head, the ProNest Bevel Interface provides a seamless solution for creating the desired CNC output. Profile bevel angle information may be created manually within ProNest or directly imported inside a CAD drawing layer. Single and multi-pass bevel cuts, bevel cuts requiring angle variation within the same entity, bevel cuts requiring looped corners, and cutting head unwind requirements can all be easily controlled using this interface. Includes user-definable Process Parameters, which are applied automatically for added simplicity and better results.</p>	\$7,500
PN-2010-502	Rotary Axis Interface (includes one Rotary Axis Post Processor PN-2010-606)   <p>For users operating a cutting machine equipped with a rotary axis, the ProNest Rotary Axis Interface provides a simple solution for creating the desired CNC output. Includes user-definable Process Parameters, which are applied automatically for added simplicity and better results; offering pipe dimension and wall thickness compensation, variable feedrates, kerf adjustment, and height control lock-out on-the-fly. The result is significantly reduced programming time and improved cut quality which contributes to better fit-up.</p>	\$2,500
PN-2010-503	Drill Interface (includes one Standard Drill Post Processor PN-2010-607)    <p>For users operating plasma or oxyfuel cutting machines that incorporate drilling, tapping and other spindle operation capability, the ProNest Drill Interface provides advanced support. Functionality includes specialized sorting of the part spindle operations as well as tool change and cycle parameter support. Some of the available features include pre-drilling of pierce locations allowing users to automatically add drilled holes at the pierce locations of all cut profiles, auto-select of tool tolerance automatically used by the system to match up the drills and taps found in the nest with the tools in the integrated customizable tooling library, the depth of operations such as counterboring and countersinking can be controlled from the CAD file through the use of Blocks, multi-step operations utilizing multiple tools at variable depths can be defined in the tooling library and called out in a part CAD file by simply adding named "Block" at the desired location, CAD colors can be used to automatically convert round holes found on the turret layer of the nest into fine or course taps, pre-drills for taps are specified automatically in the tooling library, and a flexible parameter file is used to automatically specify the spindle speed, feedrate and other cycle parameters for each tool operation, for every material type and thickness.</p>	\$2,500
PN-2010-504	Manufacturing System Interface       <p>To exchange part and plate information with external manufacturing systems (such as ERP and MRP), Part Nest List (PNL), and Sheet Nest List (SNL) ASCII files can be exchanged with external databases in the base ProNest software, allowing work-order entry and production personnel to access the nesting solution. To implement more complex systems integration, such as SAP, where the potential for further systems streamlining and organizational cost savings are huge, please contact us for a consultation.</p>	Call for Pricing

Post Processors		
In most instances, a post processor is necessary to convert nest information into NC code that can be transferred and read by a CNC controller. More than one post processor may be required to support multiple machines/CNC controllers.		
PN-2010-600	Standard Plasma and Oxyfuel Post Processor Functionality includes scribe/mark support, feedrate by hole size, variable kerf output, voltage lockout, pre-piercing, etc. Support may vary by manufacturer and machine model.	Included
PN-2010-601	Advanced Plasma and Oxyfuel Post Processor Functionality includes Hypertherm's Part Program Support, Burny's Advanced Command Message, ESAB's SDP File Support, Automatic Torch Spacing, Automatic Gas Console Support, etc. Support may vary by manufacturer and machine model.	\$1,000
PN-2010-602	Laser Post Processor Functionality includes scribe/mark support, cut conditions/tech tables by hole size, multiple pierce conditions, corner to radius conversion, vaporization, sub-routines, etc. Support may vary by manufacturer and machine model.	\$2,500
PN-2010-603	Waterjet Post Processor Functionality includes scribe/mark support, ORD file output, feedrate quality, lead-in and pre lead-out ramping, corner and variable radii ramping, dynamic piercing, etc. Support may vary by manufacturer and machine model.	\$1,000
PN-2010-604	Punch/Plasma or Punch/Laser Post Processor (requires Punch/Plasma or Punch Laser Interface PN-2010-500) Functionality is listed under PN-2010-500 in the System Interface Modules section. Support may vary by manufacturer and machine model.	\$1,000
PN-2010-605	Rotary Bevel Post Processor (requires Rotary Bevel Interface PN-2010-501) Functionality is listed under PN-2010-501 in the System Interface Modules section. Support may vary by manufacturer and machine model.	\$2,500
PN-2010-606	Rotary Axis Post Processor (requires Rotary Axis Interface PN-2010-502) Functionality is listed under PN-2010-502 in the System Interface Modules section. Support may vary by manufacturer and machine model.	\$1,000
PN-2010-607	Standard Drill Post Processor (requires Drill Interface PN-2010-503) Functionality is listed under PN-2010-503 in the System Interface Modules section, not including tapping and counterboring. Support may vary by manufacturer and machine model.	\$1,000
PN-2010-608	Advanced Drill Post Processor (requires Drill Interface PN-2010-503) Functionality is listed under PN-2010-503 in the System Interface Modules section, including tapping and counterboring. Support may vary by manufacturer and machine model.	\$2,500
PN-2010-609	DXF Post Processor Functionality includes output in DXF format instead of NC code.	\$750
PN-2010-610	Custom Post Processor Please contact us for any post processors that are not covered above.	Call for Pricing



License Options		
PN-2010-700	Additional Local Licenses A local license is restricted to a single PC at the same site. 10% of software package list price.	10%
PN-2010-701	Additional Network Licenses A network license allows the software to be used by more than one user at the same site but limits the number of simultaneous users to the number of network licenses purchased. 20% of software package list price.	20%
PN-2010-702	Local to Network License Upgrade Upgrades a local license to a network license. 10% of software package list price.	10%

Software Upgrades, Support, and Training		
PN-2010-800	<p>ProNest Software Subscription</p> <p>The annual software subscription provides online training, unlimited technical support, updates and upgrades, when available. This cost applies to initial ProNest orders and uninterrupted software subscription renewals. Interrupted renewals will incur an additional 8% penalty and possible missed version upgrades. Please contact us for a detailed description.</p>	8%
PN-2010-801	<p>Software Version Upgrade</p> <p>For upgrading from a prior to the latest software version. This charge is applied for each missed version, including the current version.</p>	16%
PN-2010-802	<p>On-Site Support</p> <p>An additional, one-time, travel and living expense charge of \$1,500 is added to the first day. No other expenses will be assessed to any additional days.</p>	\$1,000 per day

Additional Software Products

These stand-alone software packages are commonly used by ProNest customers. Please take a look to see if they are suitable for your application.

HVAC Layout Software

D2F-5-002	Design2Fab® Foreman 5 – HVAC 3D Fitting Module  For users who need to create HVAC duct, mechanical, kitchen, industrial, roofing or specialty fitting layouts, try Design2Fab; a stand-alone MTC software application that may be used in conjunction with ProNest. Complex custom fitting layouts may now be created in minutes not hours! Exports ProNest-ready *.dxf files and creates part label information for ProNest reports.	\$2,000
D2F-5-003	Design2Fab Enterprise 5 – HVAC 3D Fitting Module with Estimating/Costing  Same description as Foreman 5, including an integrated and comprehensive estimating/costing module.	\$3,000
D2F-5-100	Additional Local Licenses A local license is restricted to a single PC at the same site. 25% of software package list price.	25%
D2F-5-101	Additional Network Licenses A network license allows the software to be used by more than one user at the same site, but limits the number of simultaneous users to the number of network licenses purchased. 50% of software package list price.	50%
D2F-5-102	Local to Network License Upgrade Upgrades a local license to a network license. 25% of software package list price.	25%
D2F-5-200	Design2Fab Software Subscription The annual software subscription provides online training, unlimited technical support, updates and upgrades, when available. This cost applies to initial Design2Fab orders and uninterrupted software subscription renewals. Interrupted renewals will incur an additional 8% penalty and possible missed version upgrades. Please contact us for a detailed description.	8%
D2F-5-201	Software Version Upgrade For upgrading from a prior to the latest software version. This charge is applied for each missed version, including the current version.	16%

Turret Punch Software








GP-6-000	GeoPoint™ 6 – Turret Punch Software (includes one Punch Post Processor GP-6-200)  For users who need a comprehensive programming solution for turret punch applications; try GeoPoint. GeoPoint delivers the latest advances in sheet metal punch programming technology that allows you to reduce your manufacturing costs, improve profits, and streamline the entire punch programming process. So whether you want to import CAD files, perform manual or automatic part nesting operations, configure a custom tool path, or output CNC code; GeoPoint can manage the job!	\$5,000
GP-6-200	Punch Post Processor Standard punch post processor. Support may vary by manufacturer and machine model.	\$1,000
GP-6-201	Custom Post Processor Please contact us for any post processors that are not covered in the sections above.	Call for Pricing
GP-6-400	Additional Local Licenses A local license is restricted to a single PC at the same site. 50% of software package list price.	50%
GP-6-500	GeoPoint Software Subscription The annual software subscription provides online training, unlimited technical support, updates and upgrades, when available. This cost applies to initial GeoPoint orders and uninterrupted software subscription renewals. Interrupted renewals will incur an additional 8% penalty and possible missed version upgrades. Please contact us for a detailed description.	8%
GP-6-501	Software Version Upgrade For upgrading from a prior to the latest software version. This charge is applied for each missed version, including the current version.	16%

Image Scanning Software		
CS-1000	<p>Arbor Image – Draftsman Cutting Shop PF   </p> <p>This software package is extremely useful for artistic raster to vector scanned image conversion for all cutting and engraving applications. The PF version supports images up to 11" (280 mm) wide.</p>	\$1,200
CS-1001	<p>Arbor Image – Draftsman Cutting Shop LF   </p> <p>Same description as the PF version. The LF version supports images up to 100" x 100" (2,540 mm x 2,540 mm).</p>	\$2,500

Prices do not include taxes and tariffs. All prices in US Dollars, FOB Lockport, NY, USA.