ProNest
CAD/CAM NESTING SOFTWARE

What's New

Major new features and changes in ProNest 2027. For a complete version history, please visit the online knowledge base.

ProNest 2027 v17.0

- Adaptive Nesting
- Collision Avoidance now a standard feature
- Plow bolt hole
- Report engine upgraded
- Import fixed face as up

ProNest 2025 v16.3.2

- Expanded support for XPR™ 460

ProNest 2025 v16.3

- Quote Manager
- Destroy Bevel Pass Profiles
- Navigation pane in Edit Part List file explorer

ProNest 2025 v16.2.5

- Tekla PowerFab Connector
- View PowerFab plate properties in ProNest reports
- Remnant ID

ProNest 2025 v16.2.3

- Expanded support for XPR™ 460

ProNest 2025 v16.2

- HySpeed® Enabled for Powermax SYNC®
- Optimized hole technique for Powermax SYNC®
- Expanded support for XPR™ 460

ProNest 2025 v16.1

- XPR™ 460 Support
- SOLIDWORKS scribe text rotation
- STRUMIS Connector
- Set a minimum angle threshold for corner rounding

ProNest 2027 v17.0

Released November 2026

AUTOMATIC NESTING

Adaptive Nesting

A new automatic nesting algorithm is available. This approach tries different nesting configurations in successive trials during automatic nesting. Generations of solutions are evaluated and refined to arrive at a final nesting result.

This feature is included with the Advanced Automatic Nesting module.

COLLISION AVOIDANCE

Collision Avoidance now a standard feature

Collision Avoidance helps eliminate the chance of head crashes with tipped-up parts and other obstacles. This can prevent damage to the cutting head and significantly reduce production time. This is accomplished through a combination of actions:

- Moving leads
- Changing the cut sequence of interior profiles
- Rerouting traverse paths around possible tip-ups
- Using partial raises when possible (head-down motions)

BEVEL MACHINE INTERFACE

Plow bolt hole

Programming Y Top bevel cuts that have a square land hole is now much simpler. In CAD, simply draw a square hole opening and then apply a Plow Bolt Hole bevel angle and land dimension to the profile in Advanced Edit. New Bevel settings are available specifically for plow bolt holes, where you can adjust pass sequence, transitions, and lead-in trimming.

REPORTS

Report engine upgraded

FastReport VCL has been upgraded to 2026.2.5. Improvements have been made to the report engine used to generate ProNest reports, as well as in the report designer used for custom reports. These include:

- Report validation, including checks for missing datasets, invalid expressions, and script errors
- Grid improvements, including nested grouping support, expand and collapse, and drag and drop
- PDF export quality and image rendering
- Barcode and QR capabilities
- Designer usability
- SVG rendering, image rotation and mirroring, and image transparency
- General performance
- Bug fixes

SOLIDWORKS INTERFACE

Import fixed face as up

A new preference is available for SOLIDWORKS sheet metal parts to import the parts into ProNest with the fixed face up. This offers more control over which face is selected for import for sheet metal.

CREO PARAMETRIC

Support for Creo versions 11, 12, and 13

The Creo Plug-in now supports Creo Parametric versions 11, 12, and 13. A license update is required to use this feature.

ProNest 2025 v16.3.2

Released October 2026

SURECUT™ TECHNOLOGY

Expanded support for XPR™ 460

- True Bevel™: X cuts at 460 A for mild steel thicknesses 1.5 in., 1.75 in., and 2 in. (38 mm, 45 mm, and 50 mm).
    - 30°, 35°, 37.5°, 40°, and 45° top and bottom passes
- True Bevel™: K cuts at 460 A for mild steel thicknesses 1.5 in., 1.75 in., and 2 in. (38 mm, 45 mm, and 50 mm).
    - 30°, 37.5°, and 45° top and bottom passes
    - Standard land sizes at 10%, 20%, and 35% of thickness

Contact us for more information.

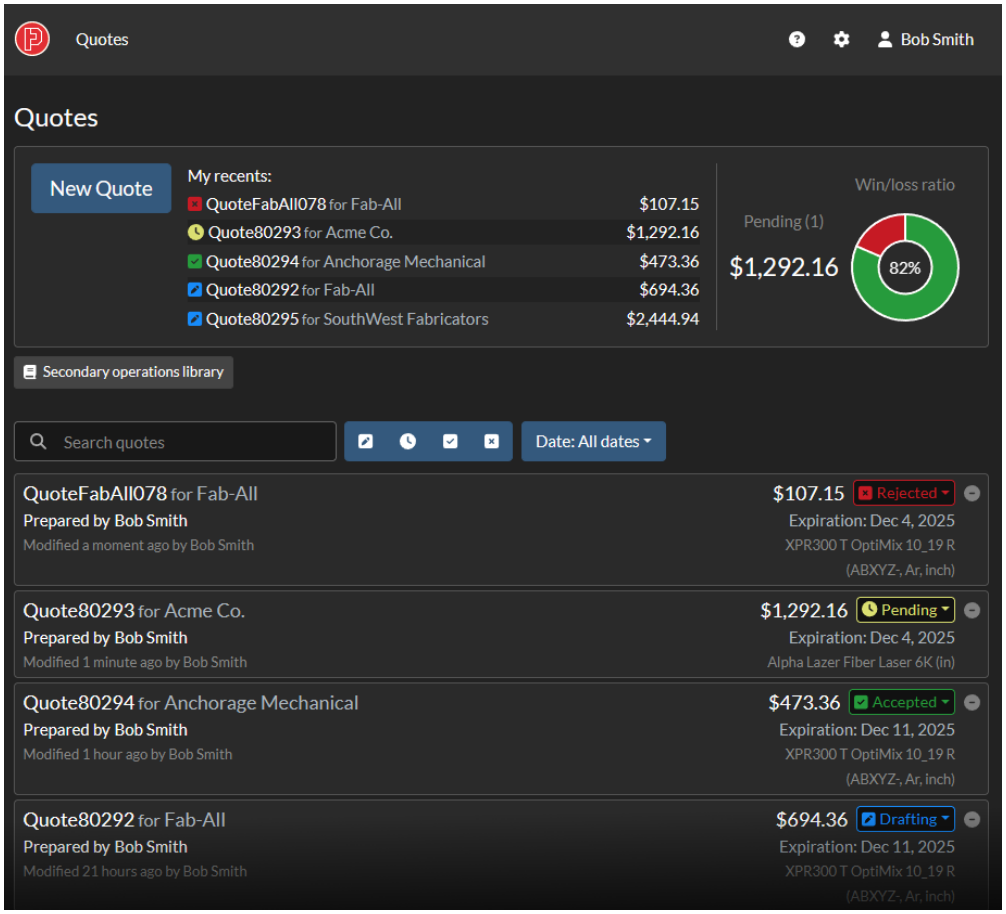
ProNest 2025 v16.3

Released June 2026

QUOTE MANAGER

Redesigned interface for creating quotes

Quote Manager is a new quoting tool in the ProNest web app, allowing you to quickly create and modify quotes without having to start a job in ProNest.



Integration with ProNest

With the integration between Quote Manager and ProNest, you can take a Quote Manager quote and turn it around into a production job in ProNest for nesting, applying advanced applications (such as common line cutting and beveling), and creating output. Similarly, a quote created in ProNest can be accessed from Quote Manager as soon as a job containing a quote is saved in ProNest.

Whether you are working on quotes in ProNest or Quote Manager, these are synchronized in both places:

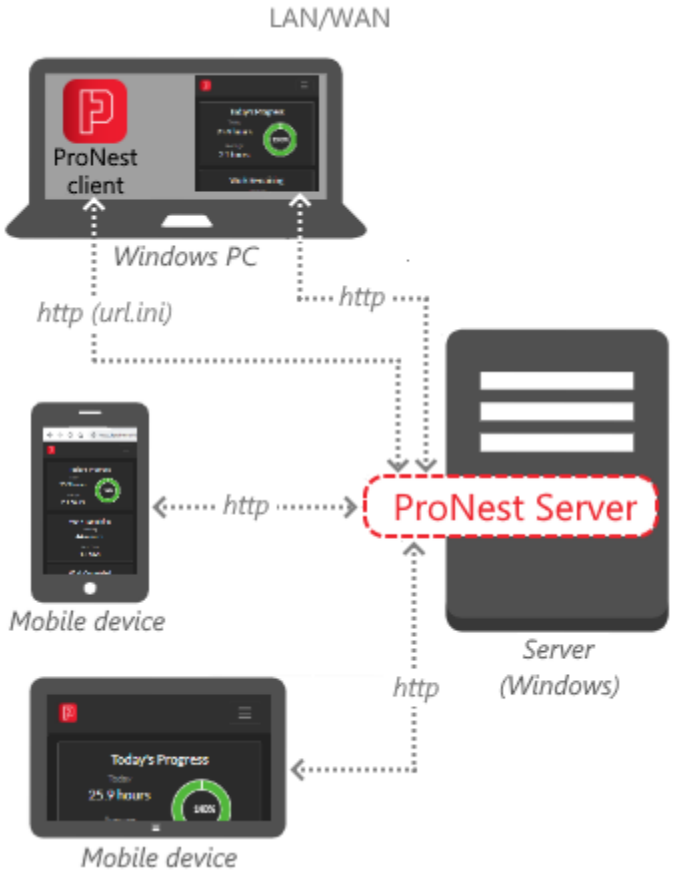
- Quotes
- Preferences
- Secondary operations

Additionally, Quote Manager uses the Customers and Materials databases from ProNest.

Connectivity

Host the ProNest web app on-premises on a network server or PC. The web app will be accessible to any device on your network, using either a wired or wireless (Wi-Fi) connection.

This means that you can use Quote Manager from your cell phone, tablet, or laptop.



Benefits:

- Access ProNest quote data easily in a web browser from any network-connected device.
- No installation is required on client devices.
- Mobile devices can connect wirelessly (Wi-Fi).
- Responsive design looks good on all types of devices (desktop, laptop, tablet, mobile phone).
- Browser-based client interface can be used on Apple® (iOS, macOS), Android™, Windows®, and so on.
- No Internet is required in order to connect.

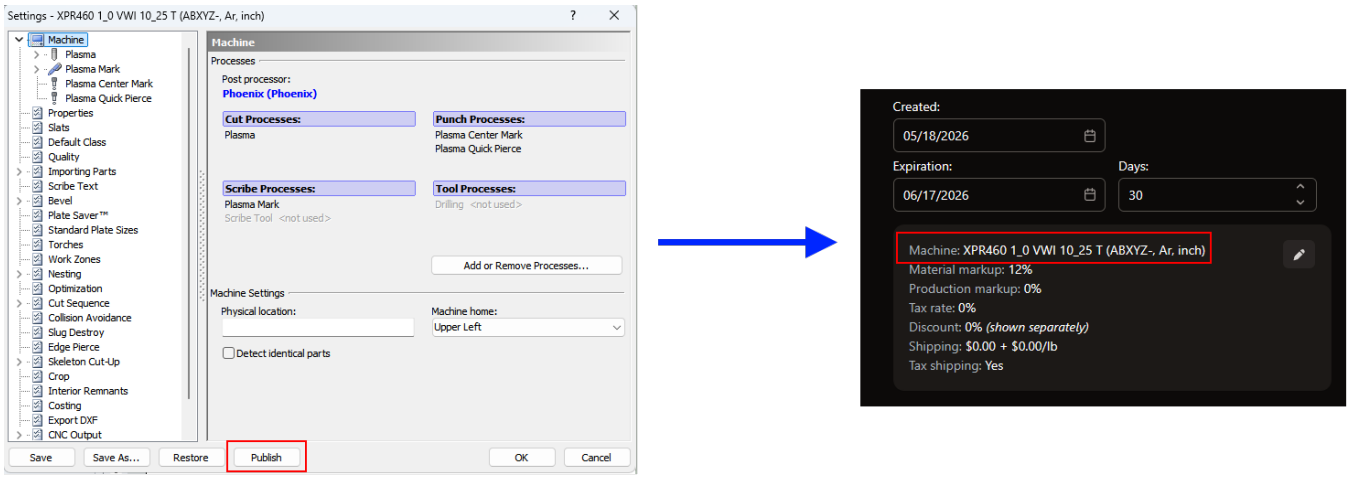
Estimator role

Assign the Estimator role to a user in the web app for Quote Manager functionality.



Publish quote machines

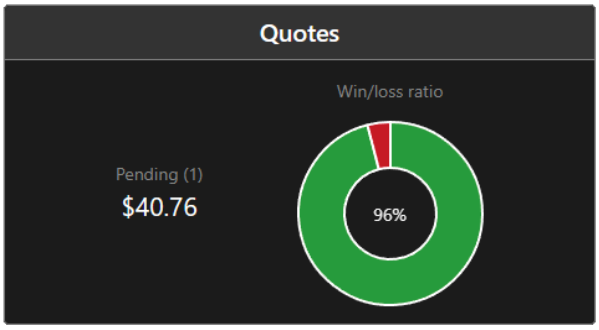
Publish your ProNest machine to Quote Manager for accurate costing, materials, customers, and other data to use in your quote. The option to publish a machine is available in Settings and in the Machines dialog in ProNest.



In Quote Manager, you can assign a default machine to use, which can also be configured by user if you have multiple Estimator users.

Dashboard

The web app dashboard for quoting and Quotes page shows a widget with the win/loss ratio and pending (in currency) amounts for quotes updated within the past 180 days. The win/loss and pending values are based on quote status: Accepted, Rejected, and Pending.

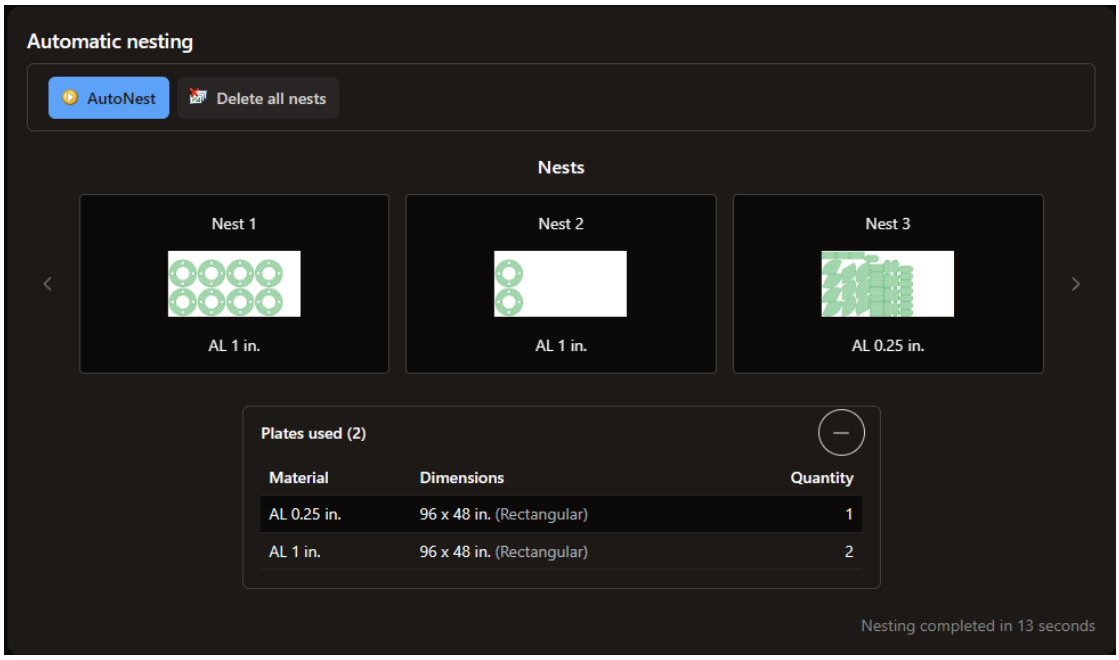


Costing

Quote Manager uses ProNest costing settings configured in the machine assigned to a quote. When costing is set up in ProNest for your machine, no additional costing setup is required to use Quote Manager.

Automatic nesting

Automatic nesting is available in Quote Manager for quote costing purposes, allowing you to get more accurate costs when using rectangular or enclosed costing and allocated scrap costing.



Quote reports

Standard quote reports are available in Quote Manager and can be assigned to quotes, and a default quote report can be set from the report selector.

Additionally, custom quote reports can be published from ProNest to Quote Manager.

Line items

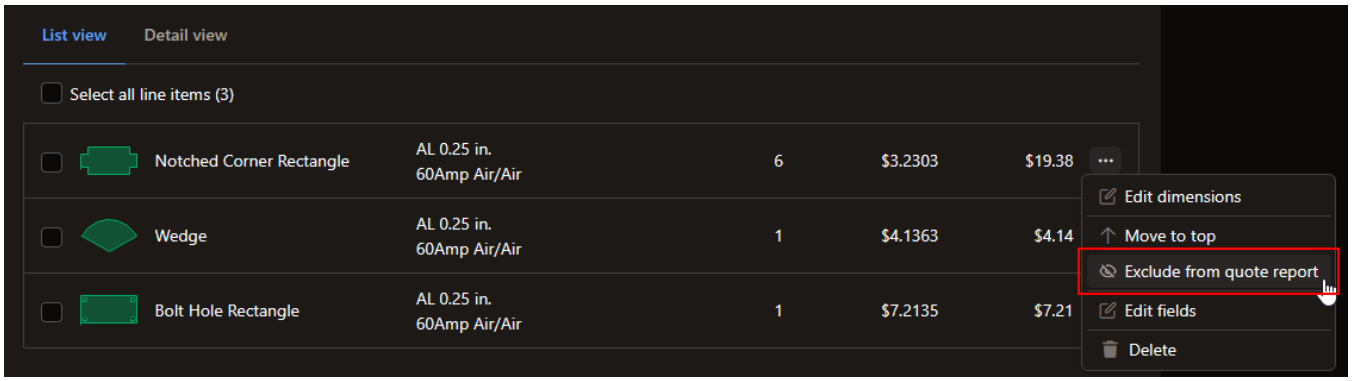
In Quote Manager, you can add various types of line items to a quote:

- CAD (.dxf, .dwg, .nc, .nc1) files
- Vector PDF files
- SVG files
- VSP shapes
- Custom line items not associated with a file or shape

When uploading a file to a quote, you can multiple select more than one file in File Explorer and drag-and-drop the files anywhere on the quote page, or use the Add CAD files option to browse to files to import.

Hide line items in the quote report

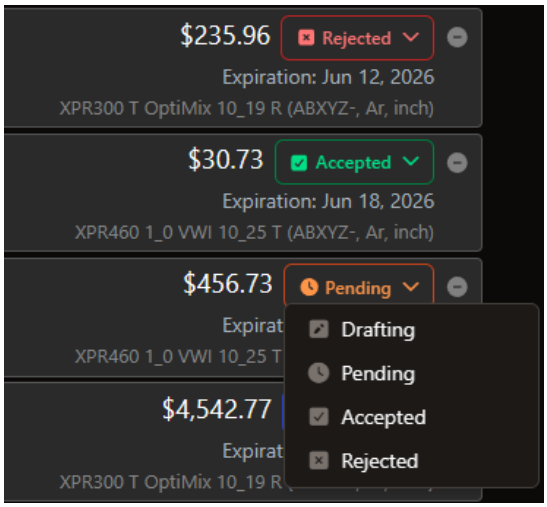
Any line item in a quote can be excluded (or included) from the quote report, without removing the line item from the job or saved quote. Excluding a line item maintains all properties for that line item in the quote, but it does not show the line item and of its associated costs in the quote report. Hiding line items is an easy way to produce quote PDFs with different options without having to create multiple different quotes.



This functionality is available in both the List view and Detail view.

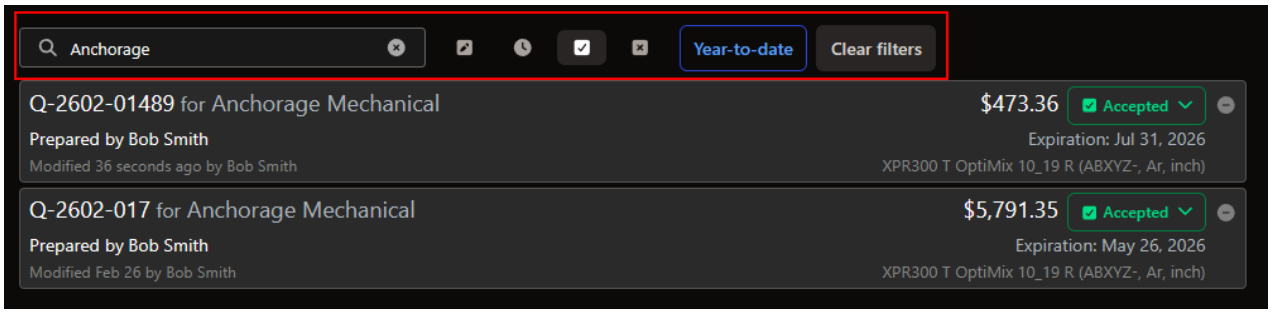
Status

Set the status of a quote to Drafting, Pending Approval, Accepted, or Rejected from various convenient locations in the web app.



Search for quotes

In Quote Manager, search for quotes by quote number, customer, preparer, secondary operations, notes, custom fields, machine, and line item name used in the quote. Filtering options by status and date are also available when searching for a quote.



Default CAD import properties from the machine are used

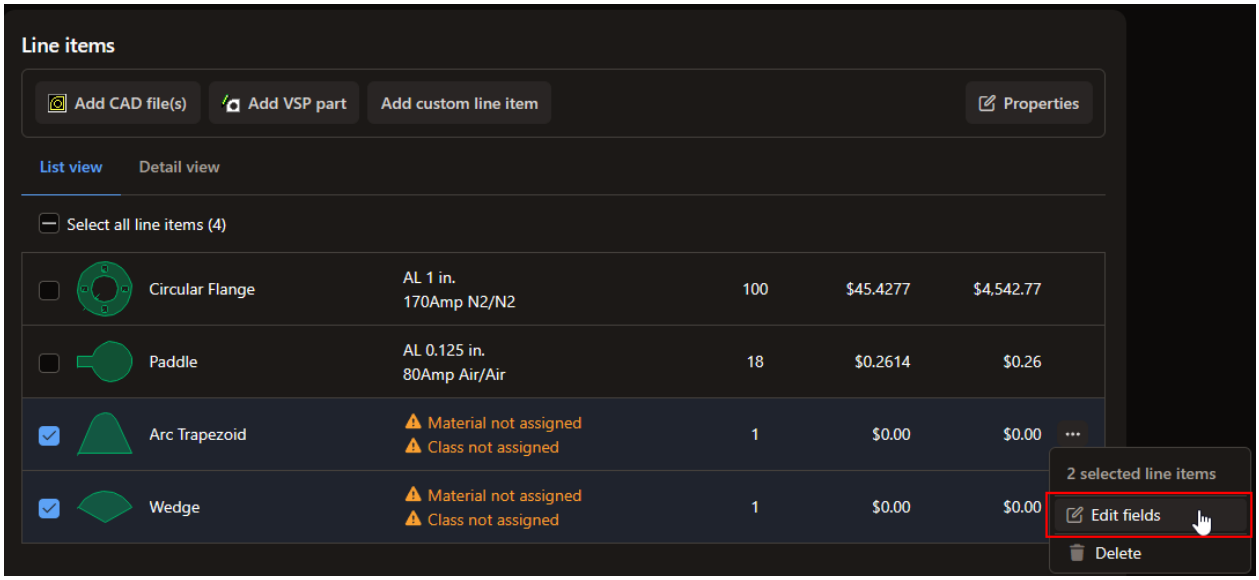
Default Import Properties for CAD files from ProNest Settings are automatically applied to new CAD line items added to a quote, including layer mappings and other options.

Set quantity, material, and class that will be used by new line items

The Quantity, Material, and Part class fields can be automatically set for new line items added to a quote.

Multiple selection for editing line items

Instead of modifying the same properties for multiple line items individually, the List view supports multiple selection of line items and options to delete the items or modify their quantity, material, and part class.

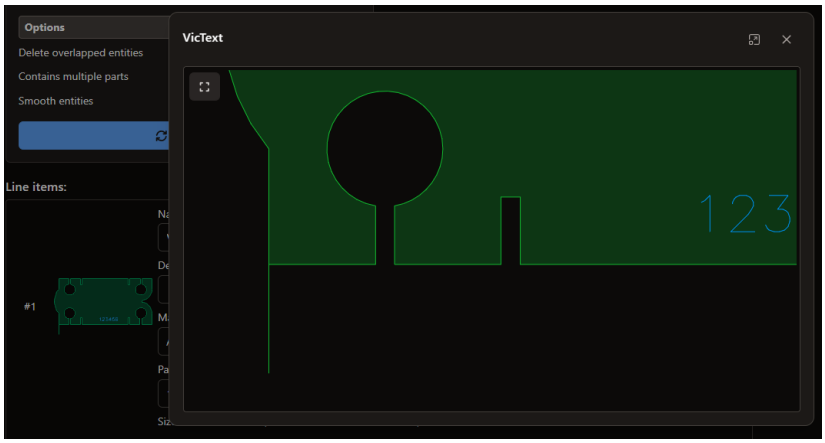


Default class

The default class for a material is automatically assigned to line items when setting material, if your machine is configured to use Default Class from settings in ProNest.

Click the part image of a line item to inspect geometry

ProNest-style pan and zoom is supported for part images, allowing you to easily inspect the geometry of line items from various convenient locations in the quote. Select the line item image from the List view, Detail view, VSP Edit dimensions, or Edit CAD import properties pages.



BEVEL MACHINE INTERFACE

Destroy Bevel Pass Profiles

A new Destroy Pass Profiles button is available for beveled parts. This enables you to remove bevel pass profiles at any time, while retaining the bevel information (such as Type and Angle) assigned to entities on the part.

Previously, once Make Pass Profiles was applied and you exited Advanced Edit, you could not easily get back to the state before pass profiles were created. In addition, there was no way to edit pass profiles for AutoBevel parts.

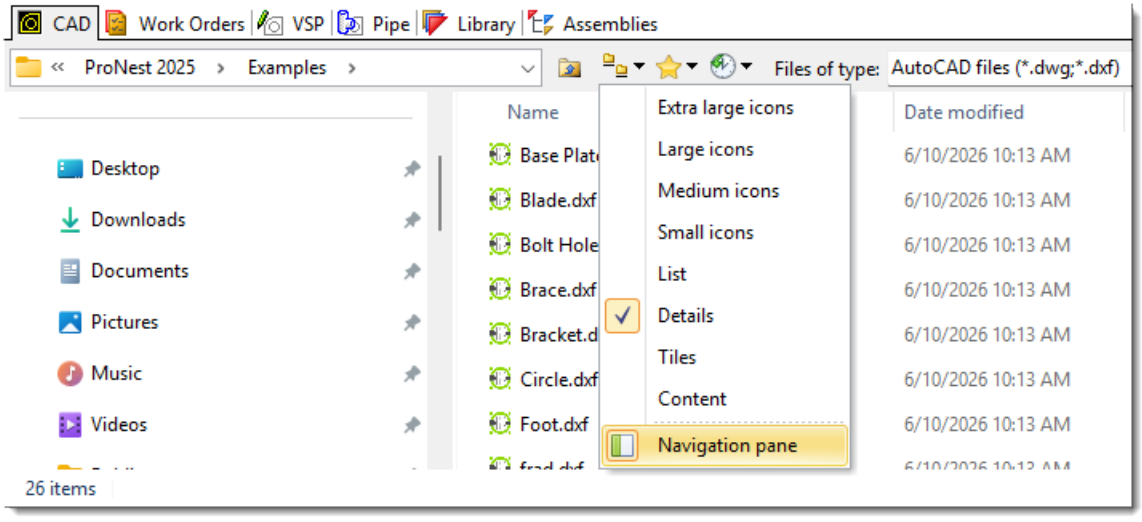
Benefits:

- After applying bevel and exiting Advanced Edit, you can now make further modifications to a bevel part without having to delete the part, re-import it, and then manually bevel it again from scratch.
- For AutoBevel parts, you can inspect the bevel information assigned to the part to verify that it is correct and then re-apply pass profiles. You can also now easily change bevel settings like Pass Profile Strategy or Compensate Geometry for AutoBevel parts.

EASE OF USE

Navigation pane in Edit Part List file explorer

In the CAD tab of the Edit Part List, an option to show a Navigation pane is now available. This enables faster file browsing and folder navigation.



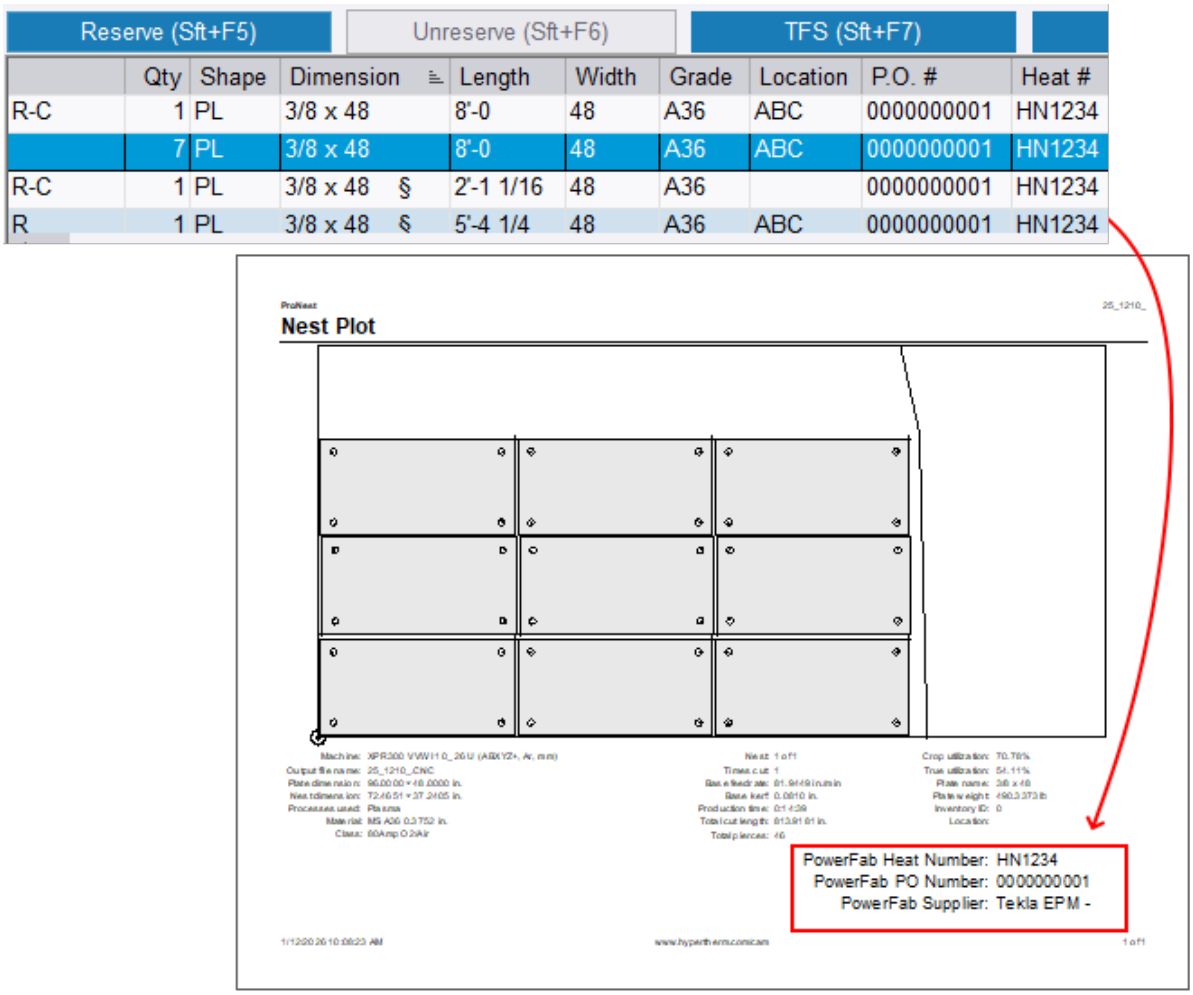
ProNest 2025 v16.2.5

Released March 2026

TEKLA POWERFAB CONNECTOR

View PowerFab plate properties in ProNest reports

PowerFab inventory plate data (such as PowerFab Supplier, Heat Number, Location, and PO Number) can be added to a custom ProNest report, for better visibility and tracking between the two systems.



Remnant ID

Remnant plates saved from a cropped nest and sent back to PowerFab are visible in the ProNest Plate Inventory. When a nest uses one of those remnant plates in a subsequent job, the inventory ID number of the remnant is now displayed in ProNest reports.

ProNest 2025 v16.2.3

Released November 2025

SURECUT™ TECHNOLOGY

Expanded support for XPR™ 460

- True Bevel™: Mild Steel 1.0 – 2 in. (25 – 50 mm) for 22.5 – 50-degree angle Y top cuts
- True Hole®: Mild Steel 40 mm

Contact us for more information.

ProNest 2025 v16.2

Released April 2025

PROCESS

HySpeed® Enabled for Powermax SYNC®

HySpeed® Enabled is a Hypertherm-tested plasma cutting application that cuts up to 3x faster than standard cut charts and reduces the cut-to-cut time. In ProNest, HySpeed Enabled requires a new machine setup that applies parameters via class and utilizes Collision Avoidance to optimize motion paths. HySpeed Enabled is designed for use with thin Mild Steel material and Powermax SYNC® plasma power supplies.

Optimized hole technique for Powermax SYNC®

Optimized hole technique is a Hypertherm-tested plasma cutting application that improves cut quality and reduces dings and divots on holes and slots. In ProNest, optimized hole requires a new machine setup, and class is used to apply optimized hole parameters. Optimized hole is designed for use with thin Mild Steel material and Powermax SYNC® plasma power supplies.

SURECUT™ TECHNOLOGY

Expanded support for XPR™ 460

- True Bevel™: Mild Steel 1.0 – 1.5 in. (25 – 38 mm) for A and V cuts
- True Hole®: Mild Steel 0.75 – 1.5 in. (19 – 38 mm)

Contact us for more information.

ProNest 2025 v16.1

Released July 2024

SURECUT™ TECHNOLOGY

XPR™ 460 Support

ProNest 2025 support for the new Hypertherm XPR 460 plasma cutting system is available, including SureCut™ technology support for:

- True Bevel™: Mild Steel 1.75 and 2.0 in. (45 and 50 mm)
- True Hole®: Mild Steel 0.75, 0.875, and 1.0 in. (19, 20, 21, 22, 23, 24, and 25 mm)

Contact us for more information.

3D CAD

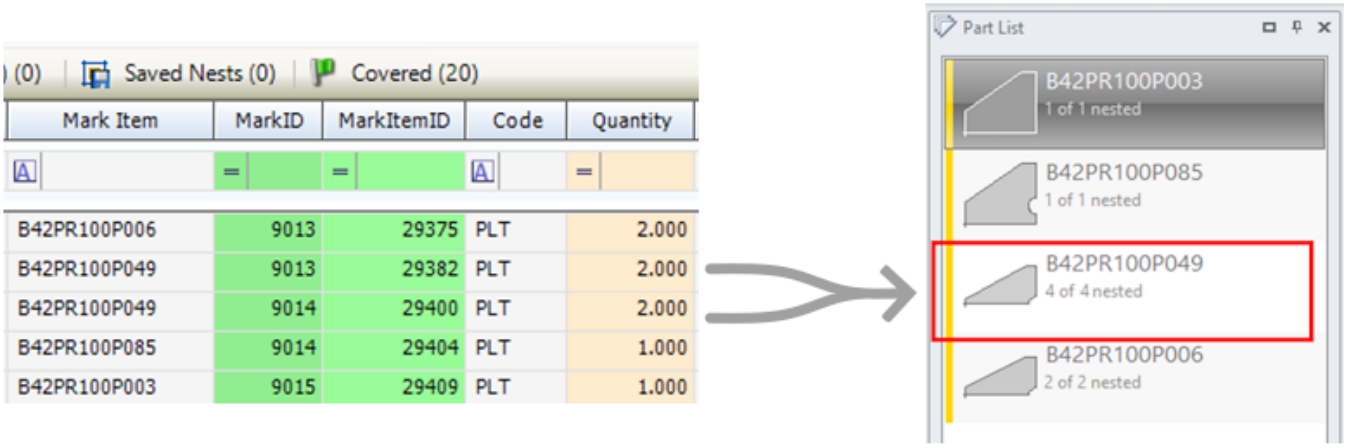
SOLIDWORKS scribe text rotation

For SOLIDWORKS parts with scribe text that is rotated or placed at a specific orientation, you can make sure that the text on the part is imported at the intended position by adding a construction line on the Scribe sketch and then linking the sketch text to that line.

STRUMIS CONNECTOR

Merge like parts

Items from STRUMIS that have the same Mark Item name can be combined in the part list as a single part with a multiple quantity.



This simplifies the part list in a job, allowing you to work more efficiently in ProNest for tasks including editing parts in Advanced Edit, adding beveling, and manual nesting. It also simplifies lists of parts in reports.

To use this feature, install the latest ProNest STRUMIS integration files and then enable the MergeLikeParts option. Visit the Knowledge Base to learn more (log in required).

MACHINE

Set a minimum angle threshold for corner rounding

A new column header called "Minimum Corner Radius Threshold Angle" is available for the Cutting Techniques spreadsheet, which lets you set a minimum angle for corner rounding. This new column header allows you to create a range of angles for corner rounding when used with the Corner Radius Threshold Angle column header. For example, if Minimum Corner Radius Threshold Angle is set to 35 and Corner Radius Threshold Angle is set to 100, then only corners with angles between 35 and 100 degrees will be rounded.

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