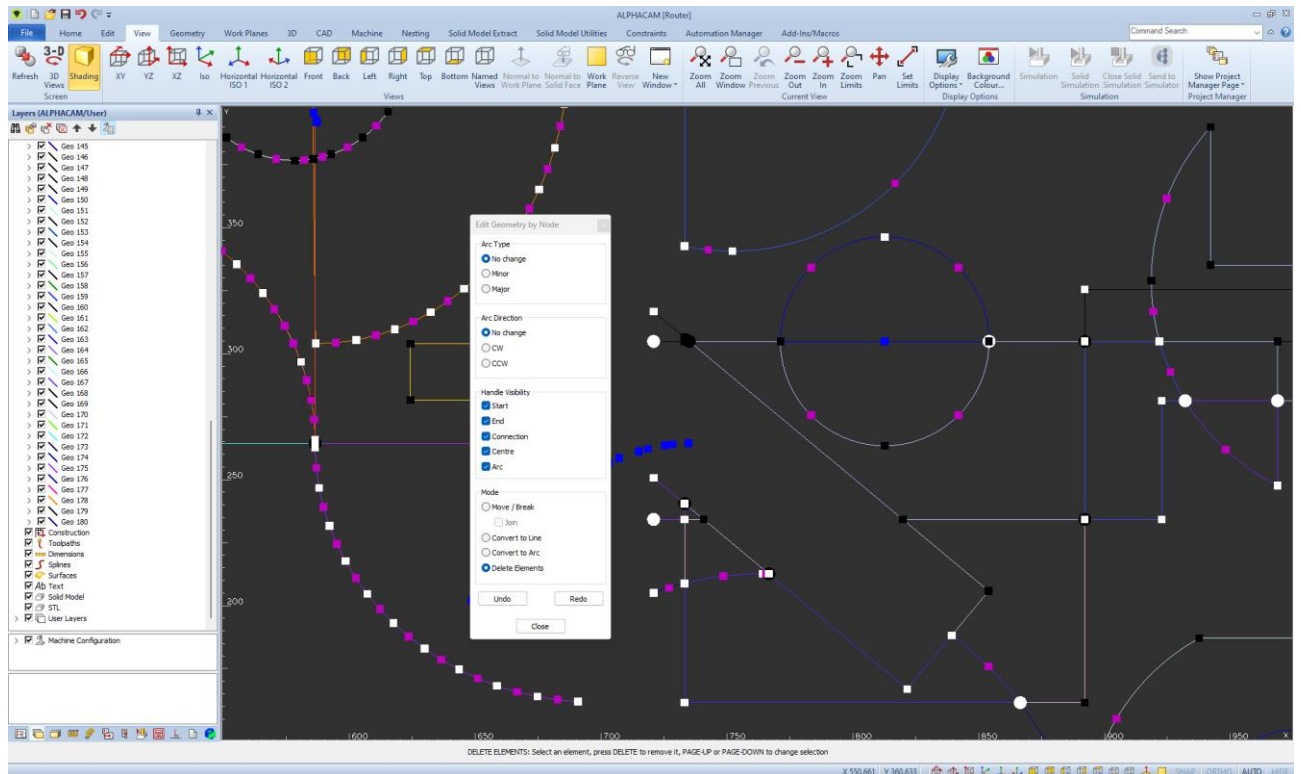




HEXAGON

WHAT'S NEW IN ALPHACAM 2023.4



This document contains a general overview of the new features within ALPHACAM 2023.4.

13 December 2023

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Important Information

Operating System Support

Please refer to the Installation Guide or System Requirements page on <http://www.alphacam.com> for further information.

More Information about New Features

The What's New document contains only a brief introduction to the new features available in this release. Further details and examples about this functionality can be found on our Customer Community Forums Wiki page.

ALPHACAM Maintenance Expiry Date

To run ALPHACAM 2023.4, the maintenance expiry date in your license must be December 2023 or later.

Supported CAD File Versions

Supported CAD File Versions

- i** To import Solid CAD files, the **xSolids** multiplier is required.
- i** In order to import Autodesk Inventor files, **Autodesk Inventor®**, **Inventor® View™** or **Inventor® Apprentice Server** must also be installed.

Translator and Version
ACIS R1 – 2023 1.0
Adobe Illustrator
Adobe PDF
ALPHACAM Designer Files
Autodesk Inventor 2023 (current, IPT & IAM files) i
Creo 9.0 (formerly Pro/E Wildfire)
DXF/DWG (AutoCAD 2018)
IGES (not version specific)
JT Open 10.2
NX Unigraphics UG11 – NX 2206
Parasolid 9.0 – 35.0.184
Part Modeler (current)
PostScript
Rhino 7.0
SketchUp 2022
Solid Edge SE 2023 (PAR & PSM files)
SOLIDWORKS 2023
Spaceclaim 2019 R1
STEP AP203/AP214/AP242 (preferred Schemas)
STL (not version specific)
VISI Version (current)

Extra Cost

Translator and Version
Catia V4 4.1.9 - 4.2.4
CATIA V5 V5R8 - V5-6R2022
CATIA V6 Up to V6 R2022x
Note: CATIA V6 users should export their database objects as CATIA V5 CATParts or CATProducts.

Maintenance Report

Maintenance Report

The following is a list of bug fixes and enhancements implemented in ALPHACAM 2023.4:

ID	Description	Closing Notes
13304	Input CAD - Inventor - No face colour imported.	Fixed.
23681	Nesting - Undo does not completely undo a nest.	Fixed.
28264	Input CAD Extensions - Ensure that Common Line Removal is run after Project 3D to 2D.	Implemented.
33252	Automation Manager - Base Name Configuration - Files continually overwritten.	Fixed.
34140	+Label to support Bridged Nesting.	Implemented.
34812	NC Output - Facing - Post Rapid incorrect.	Fixed.
35397	Managed Rapid - Pick Distance gives incorrect result.	Fixed.
35420	Solid Model selection not working in Wireframe Mode in XY View.	Fixed.
35746	Machining Operations - Cancel button changes stored parameters.	Fixed.
35757	Automation Manager – Reports – Automation Manager crashes when producing reports for multiple Materials.	Fixed.
35831	+Label - Support parts with multiple Outer Paths.	Implemented.
35991	GUI - Project Manager - Find Geometry and Toolpath Entities not working correctly.	Fixed.
36090	Wire - Toolpath on Work Plane moves after Operation update.	Fixed.
36103	Reports - Incorrect result with Bridged Nesting.	Fixed.
36111	Automation Manager - Job File Defaults - Does not allow selection of ALPHACAM Tool Ordering lists.	Fixed.
36134	API - OpenTempDxfFile - Improve OpenTempDxfFile so that Text is imported.	Implemented.
36138	Solid Model Extract - Spun Outline - Have this available in Lathe without the need for xPositional multiplier.	Implemented.
36231	ALPHACAM 2023.x needs to be licenced to output from S2M.	Fixed.
36274	Automation Manager - Nesting – Reverse Nesting not working with Sheet Squaring.	Fixed.
36354	Process Waste - Nested - Waste Cuts fouling some parts.	Fixed.
36520	Sheet Database - Takes a long time to open when Licomdat is on a network.	Fixed.
36556	Input CAD Extensions - Modify the dialog to show the Order in which the Extensions are Run.	Implemented.
36643	Nest Extensions - Cut Small Parts First - Not working with comma decimal separator.	Fixed.
36806	+Label not licensing when CV and Network are present.	Fixed in +Label 2349.

Sawing Extensions

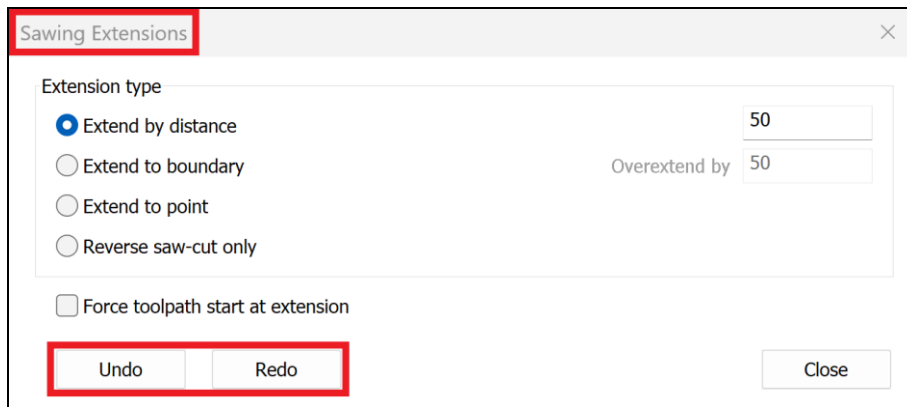
Sawing Extensions - Make dialog modeless

An enhancement has been made to the **Sawing Extensions** dialog which can be found in the Edit Machining drop-down menu located in the Special Edits section of the **Machining** tab.

The dialog is now modeless meaning that it will stay open while edits are being made. This allows you to switch between extension types or change parameter values without restarting the command.

When the command is run, you will immediately be prompted to pick a saw tool path. You can switch between the types of extension using the radio buttons or by using the newly implemented short-cut number keys (1 to 4):

- Local **Undo** and **Redo** buttons have been implemented making it quicker to undo unwanted edits and fix them.
- To make the command easier to use, tooltips have been added when hovering over each of the options within the dialog.

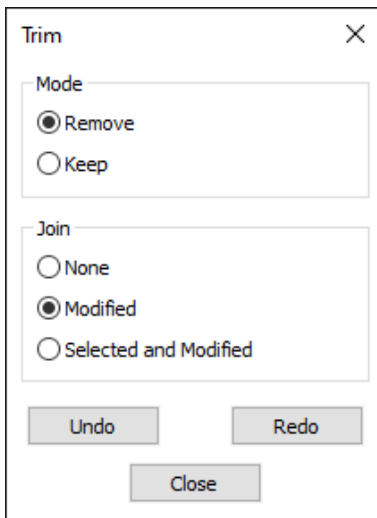


Edit

Edit - Trim - Enhanced Join Options

New options have been added to the **Trim** dialog enabling you to control which candidates are suitable for automatic joining:

- **None** - No joining will be performed.
- **Modified** - Modified geometry and toolpaths will be candidates for joining when the command ends.
- **Selected and Modified** - All initially selected and any modified geometry and toolpaths will be candidates for joining when the command ends.

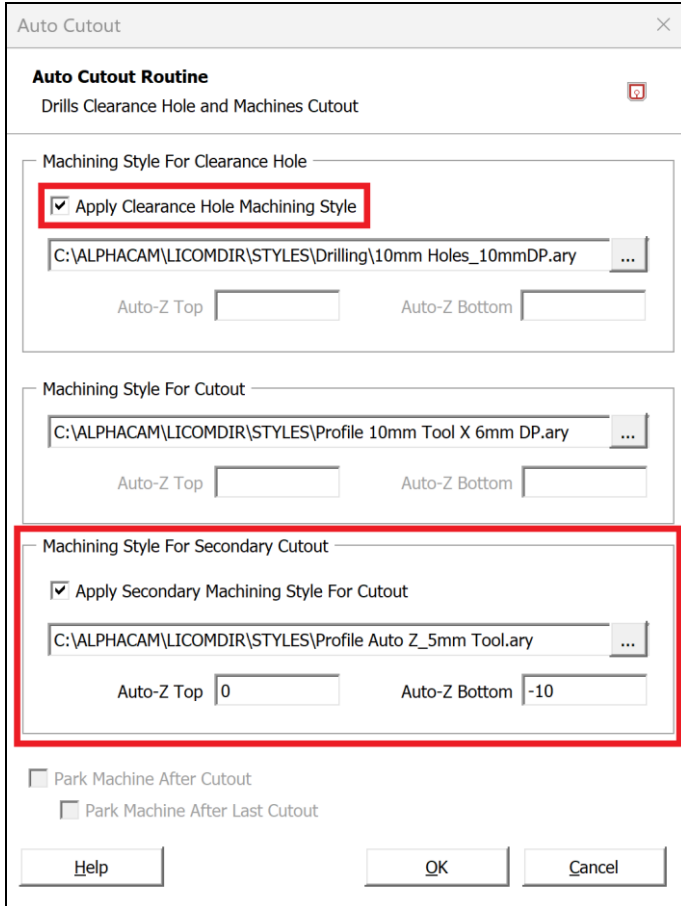


Add-Ins

Add-Ins – Auto Cutout update

The **Auto Cutout** Add-in has been enhanced for this release. The ability to turn off the clearance hole has now been added because, if the cutout is cut out on a waterjet machine, the clearance hole is not required.

With the addition of a new **Machining Style for Secondary Cutout** option, the user can now apply a Finishing machining style.



Auto Cutout

Auto Cutout Routine
Drills Clearance Hole and Machines Cutout

Machining Style For Clearance Hole

Apply Clearance Hole Machining Style

C:\ALPHACAM\LICOMDIR\STYLES\Drilling\10mm Holes_10mmDP.ary ...

Auto-Z Top Auto-Z Bottom

Machining Style For Cutout

C:\ALPHACAM\LICOMDIR\STYLES\Profile 10mm Tool X 6mm DP.ary ...

Auto-Z Top Auto-Z Bottom

Machining Style For Secondary Cutout

Apply Secondary Machining Style For Cutout

C:\ALPHACAM\LICOMDIR\STYLES\Profile Auto Z_5mm Tool.ary ...

Auto-Z Top Auto-Z Bottom

Park Machine After Cutout
 Park Machine After Last Cutout

Help OK Cancel

Nesting

Nesting - Extensions - Part Quantity Multiplier - New Checkbox - Show for each nest

A new **Allow configuration before nesting begins** option has been added to the **Part Quantity Multiplier** Special Function on the **Extensions** tab of the Nesting settings:

- With the option checked, the **Part Quantity Multiplier** will be displayed before nesting begins.
- With the option unchecked, the value used for the multiplier will be as defined in the nesting extension configuration.

