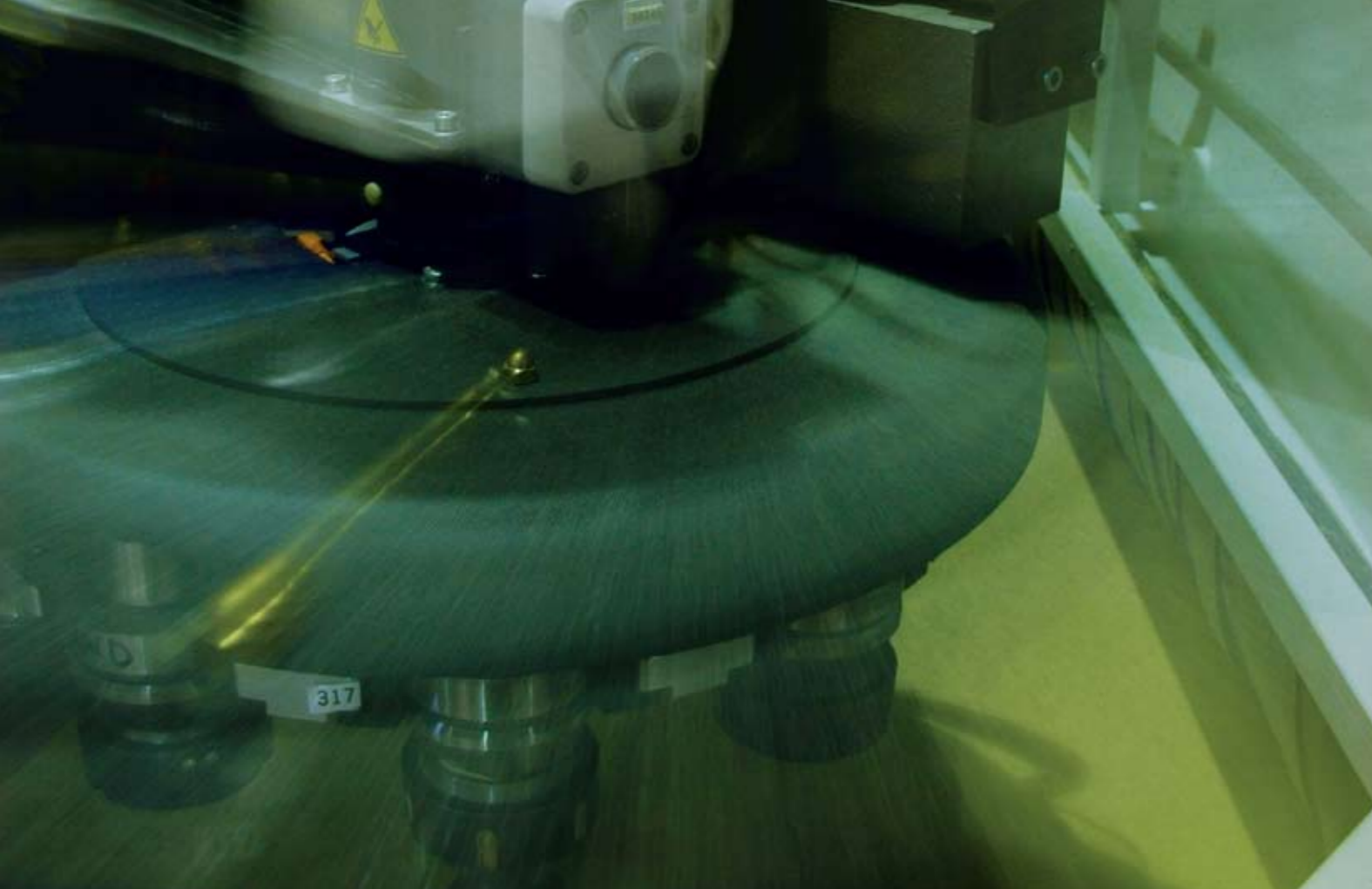


AC

PLANIT **ALPHACAM** VERSION 8



PRODUCT OVERVIEW

Integrated CAD / CAM

Cabinet Doors & Drawer Fronts Production

Entry Door & Window Production

New in Version 8

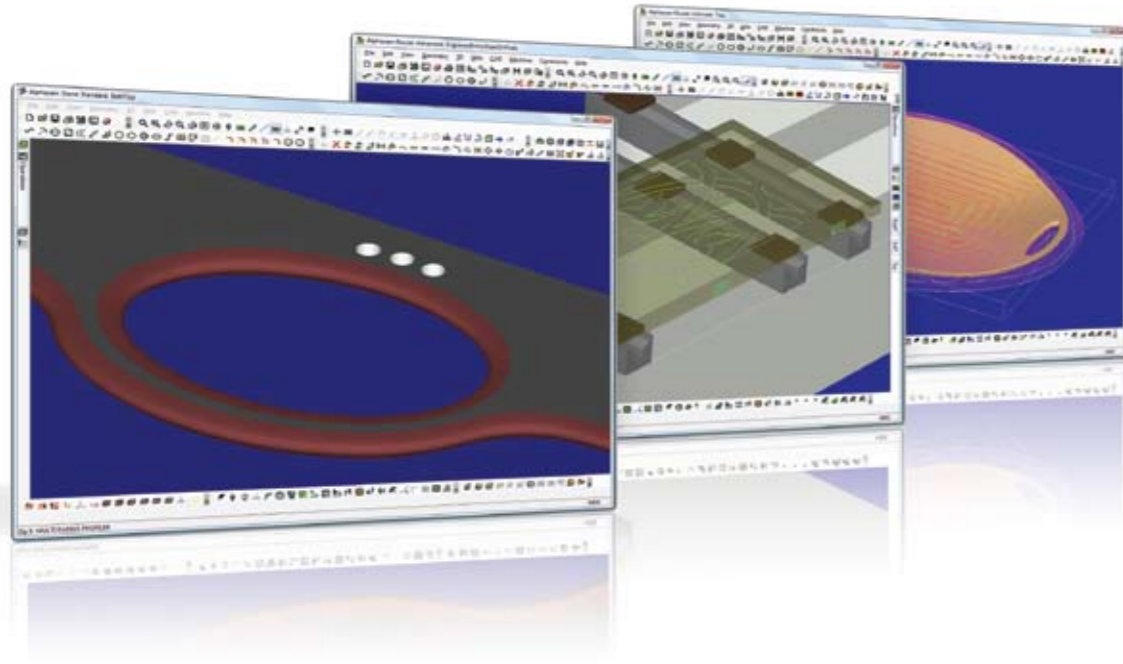
Alphacam Module Matrix

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PLANIT **ALPHACAM** VERSION 8

PRODUCT OVERVIEW



PRODUCT OVERVIEW

Alphacam works with a wide range of companies within the industry, from small niche joinery companies which manufacture custom and intricate products, to large, mass production players. As part of the Planit group, we offer world class software for the woodworking, cabinet making, engineering and stone industries. Our systems are best-in-class within their respective markets and are integral to the success of thousands of companies around the globe.

Alphacam offers a multitude of applications for doors, windows, cabinets, stairs and panels. Anything from 2D fascia doors to countertops to complex 5-Axis stair handrails can be produced easily and quickly. Alphacam has such flexibility that we are bound to have a solution for your needs, whatever they might be. We also offer an integrated business system specifically for the needs of the joinery industry.

CUSTOMER SERVICE

Our fully qualified team of engineers are on hand to support your business both remotely and in person, and our comprehensive training facilities at Alphacam's prestigious head office can only be described as first class. We are committed to providing you with all the assistance you need to gain maximum return on your investment.



Product Overview

INTEGRATED CAD / CAM

Cabinet Doors & Drawer Fronts Production

Entry Door & Window Production

New in Version 8

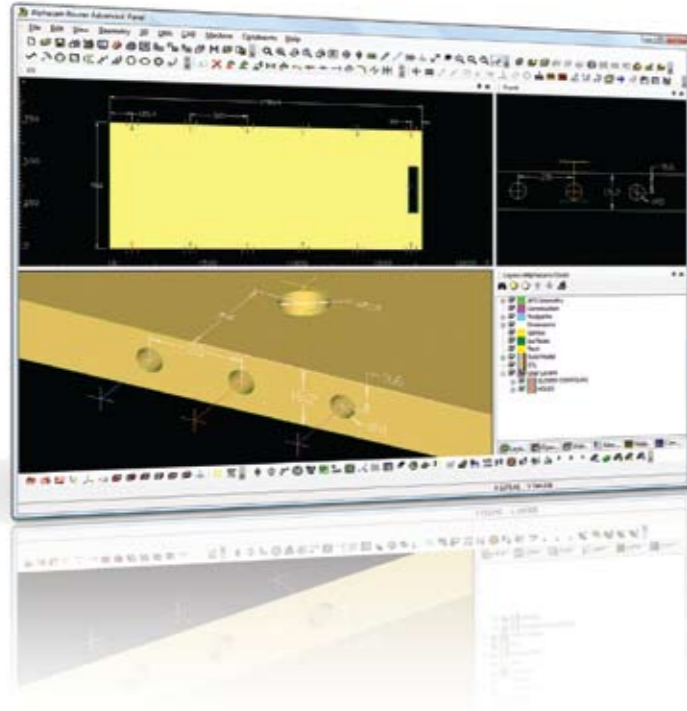
Alphacam Module Matrix

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PLANIT **ALPHACAM** VERSION 8

INTEGRATED CAD / CAM



INPUT MANY FILE TYPES

- DXF
- DWG
- Solid Edge
- SolidWorks
- Parasolid
- Inventor
- Many more

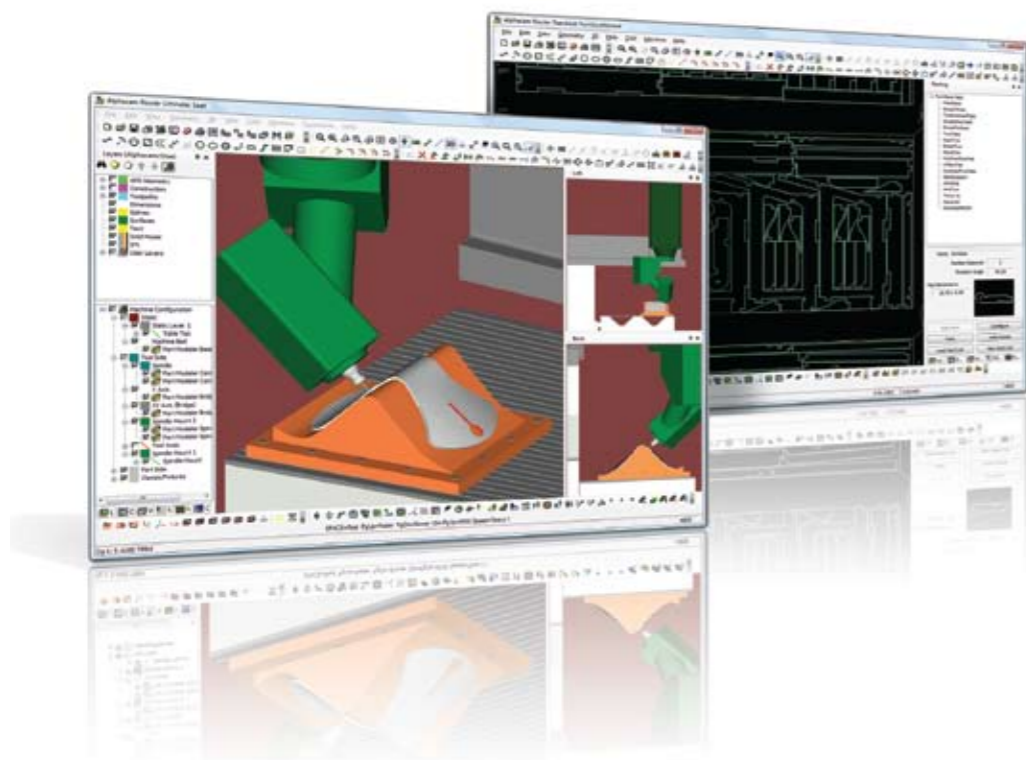
INTEGRATED CAD / CAM

Alphacam is a completely integrated CAD/CAM software solution with advanced features. It is designed to offer your business enhanced productivity, exceptional reliability and additional flexibility.

Our ongoing program of development and enhancement ensures that Alphacam not only keeps pace with the changing needs of users throughout the woodworking industry, but also delivers maximum return on your CAM investment.

Alphacam also offers you the latest front end CAD part modeling facilities via our solid modeler.

MODULES



Alphacam is available in the following modules:

ALPHACAM ESSENTIAL

The ideal entry level product for basic 2D CNC work. This module offers the fundamental tools required for CAD/CAM production, including nesting of parts from the screen, and 3D Engraving.

ALPHACAM STANDARD

The perfect product for shops and subcontractors. This module offers all the functionality of the Essential package with additional support for nesting of parts from a nest list, horizontal machining, reusable machining data (Machining Styles), and much more.

ALPHACAM ADVANCED

Targeted at the manufacturer who works with complex, free-form patterns and tools. In addition to the functionality of the lower level modules, this module offers complex 3D machining strategies, solid model importing and feature extraction, constrained parametric part creation and much more.

This module also incorporates Microsoft's Visual Basic for Applications and is suited for those that can utilize Alphacam's add-on or custom built applications and automation tools.

ALPHACAM ULTIMATE

Adds support for full 4/5-Axis simultaneous machining for high-specification joinery and furniture manufacturers.



Alphacam has helped us to evolve the CNC part of our business.



- Bill Taylor, CNC Manager, Sunseeker International Ltd

ADDITIONAL PRODUCTS

Alphacam for NC Code Editing, a multi-window text editor specifically designed for NC programmers, is included with every Alphacam module. It offers standard text editor features as well as NC specific features such as line re-numbering and program comparison. It can be used to print out operator sheets for the workshop, showing the operation list with types, tools and cycle times which are automatically generated by all Alphacam modules.

Alphacam for Viewing has been specifically designed for use on the shop floor and allows machine tool operators to have some control over the NC program output to the machine tool. Now an engineer has the ability to simulate and edit existing Alphacam programs, such as toolpaths, tool numbers, speeds and feeds, without the need to interrupt your programming team with minor modifications to the NC code.

Alphacam for CAD creation offers full function 2D and 3D features for fast creation of machine suitable geometries.



Product Overview

Integrated CAD / CAM

CABINET DOORS & DRAWER FRONTS PRODUCTION

Entry Door & Window Production

New in Version 8

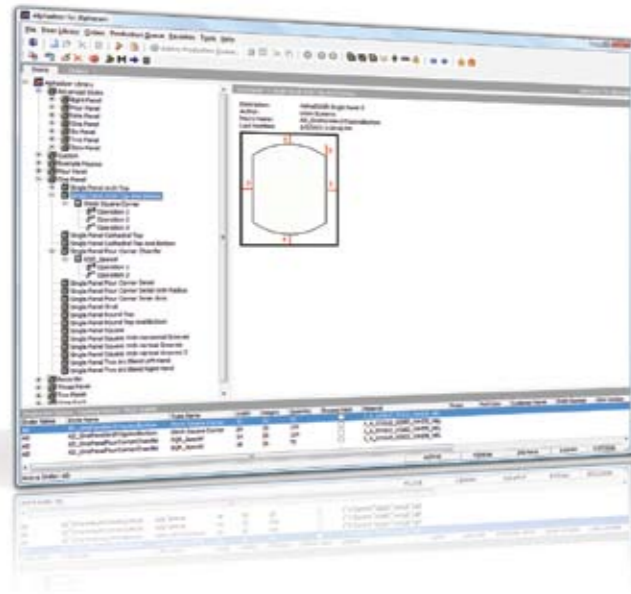
Alphacam Module Matrix

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PLANIT **ALPHACAM** VERSION 8

CABINET DOORS & DRAWER FRONTS PRODUCTION



BENEFITS

Fascia doors and drawer fronts can be produced individually or nested to ensure optimal use of each panel.

CABINET DOORS & DRAWER FRONTS PRODUCTION

Alphacam's Cabinet Door Manufacturing (CDM) offers automated production of external, internal and fascia doors. Choose from our comprehensive library of styles which can save you hours of design time or create your own by introducing the required parameters – the choice is yours.

In a world of rising raw material costs, this helps to maximize your profitability, giving your business a real competitive edge.

The increasing demand for specialized production is just one of the challenges Alphacam's CDM meets with ease. The instant availability of parametric programming – an essential requirement for much of today's woodworking activities – is one of the many factors incorporated into the software that underpins its flexibility.

Alphacam's CDM also has an order-entry facility that provides information for built-in, fully customizable bar coding and part labeling functions, as well as for the reporting function which enables the generation of production management reports. We recognize that production flexibility is the key to success. Alphacam's CDM ensures that even the shortest runs can be achieved without any loss in efficiency.



Product Overview

Integrated CAD / CAM

Cabinet Doors & Drawer Fronts Production

ENTRY DOOR & WINDOW PRODUCTION

New in Version 8

Alphacam Module Matrix

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Product Overview

Integrated CAD / CAM

Cabinet Doors & Drawer Fronts Production

Entry Door & Window Production

NEW IN VERSION 8

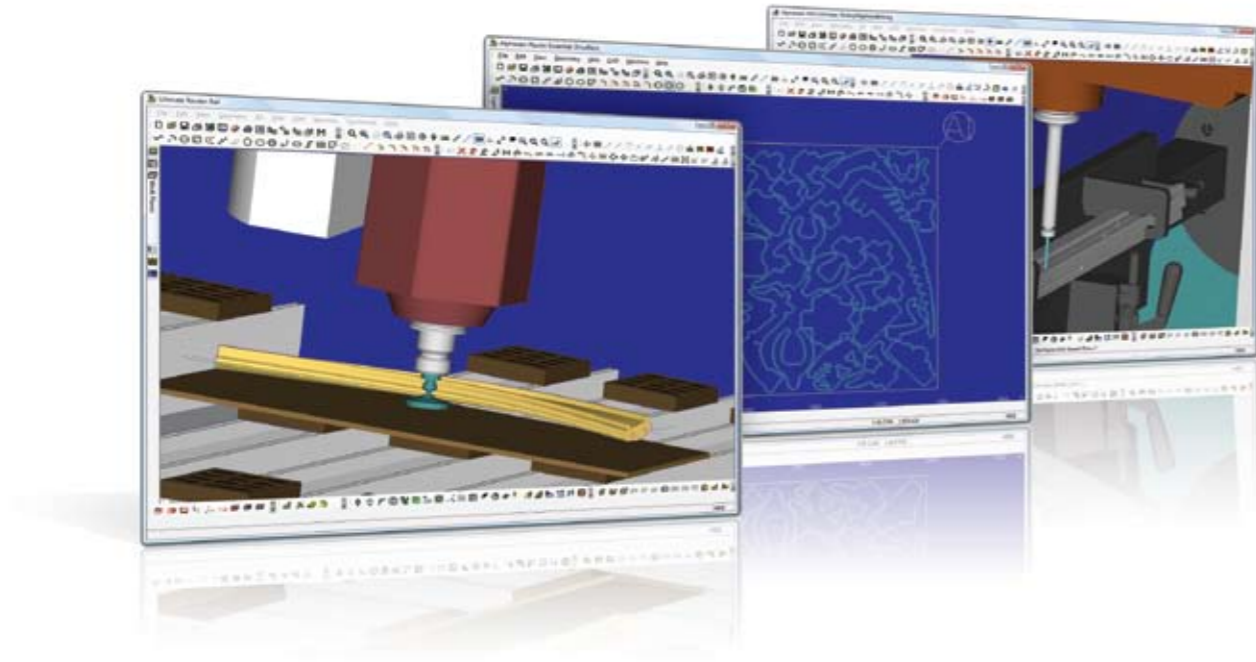
Alphacam Module Matrix

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PLANIT **ALPHACAM** VERSION 8

NEW IN VERSION 8



MODULE / LEVEL RESTRUCTURE

The Alphasoft V8 feature sets have been restructured to increase the functionality in nearly all of the products. Many features that were previously only available in Advanced are now available within Standard, while many features that were previously only available in Standard are now available in Essential. See the Module Matrix within this brochure for a feature overview.

- New Lathe Essential module
- Many commonly used add-ins are now loaded automatically to make full use of their functionality

NEW SIMULATION

- Definable machine configuration (Advanced level or higher)
- Simulation now resides within the main Alphasoft drawing screen
- More realistic visualization/movements
- Simultaneous movements
- Operations can be switched On/Off during Simulation
- More...

SAWING ENHANCEMENTS

- Sawing around arcs
- Saw partial geometry
- Saw only selected elements
- Auto Z machining

LATHE MODULE ENHANCEMENTS

- Automatic Rapid Management
- Enhanced Grooving functionality
- More...

CAD ENHANCEMENTS

- Preview of results for 2 Point or 3 Point circles
- Preview of results and adjustable contact points when creating tangent circles
- Live preview when moving, copying or rotating objects

GENERAL ENHANCEMENTS

- New Insert Image command will insert a raster image at a specified location
- New Cut Holes Auto Z command added to Stone
- Enhanced tool definition now contains Tool Holder and Tool Tip to Gauge Line Length properties

- Can now Copy/Paste geometries between Work Planes
- Can now drag geometries between Layers and Work Planes within the Project Manager
- Sheet Bitmaps (images) can now be assigned to geometries on Work Planes
- New Check/Repair Part command added to Solid Utilities
- New Paint Faces command added to Solid Utilities
- Updated CAD file translators
- The Alphacam help system has been restructured and updated
- Many more enhancements and bug fixes...

ADD-IN ENHANCEMENTS

- New Machine Undrilled Holes feature added to Multidrill
- New Re-Multidrill feature added to the list of Nesting Options
- New AutoCutout add-in will create a clearance hole then machine the selected contour using the clearance hole as the start/end point (Stone/Router)
- New ReliefCut add-in will create a relief cut at a specified distance and location then fully machine the selected contour (Stone/Router)
- New Corner Drill add-in will create a drilled hole at internal corners of a selected contour
- More...



Product Overview

Integrated CAD / CAM

Cabinet Doors & Drawer Fronts Production

Entry Door & Window Production

New in Version 8

ALPHACAM MODULE MATRIX

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AC

PLANIT **ALPHACAM** VERSION 8

Alphacam V8	Essential	Standard	Advanced	Ultimate
CAD FILE INPUT TRANSLATORS				
DXF, DWG, IGES as Surfaces	•	•	•	•
SolidWorks, Solid Edge, Inventor, Unigraphics, Rhino			•	•
ACIS, STL, Parasolid, IGES as Solids			•	•
Catia			OPT	OPT
Pro/E			OPT	OPT
STEP			OPT	OPT
CAD FILE OUTPUT TRANSLATORS				
DXF, IGES	•	•	•	•
STL, VDA, Parasolid, Rhino			•	•
WMF, EMF			•	•
VIEWS				
Dynamic 3D View	•	•	•	•
Shaded/Wireframe Mode	•	•	•	•
Zooming and Panning (Including Scroll Wheel/Middle Button)	•	•	•	•
Drawing Display Options	•	•	•	•
Customizable/Multiple Views and View Windows		•	•	•
CAD GEOMETRY				
Line, Rectangle, Arc, Circle, Polygon, Ellipse	•	•	•	•

R = Router S = Stone OPT = Extra Cost Option

Alphacam V8	Essential	Standard	Advanced	Ultimate
Text Creation and Editing	•	•	•	•
Digitizing (On Screen and Tablet)	•	•	•	•
APS Fast Geometry		•	•	•
Additional Special Geometries		•	•	•
3D Polylines		•	•	•
Spline Creation and Editing		•	•	•
Assign Bitmap Image to Geometry		•	•	•
Full Surface Creation and Editing		•	•	•
GEOMETRY/TOOL PATH EDITING				
Set Start Points and Cutting Order	•	•	•	•
Break, Join, Trim, Extend	•	•	•	•
Fillet, Chamfer, Offset	•	•	•	•
2D Array, Scale, Stretch, Skew	•	•	•	•
2D Move, Copy, Mirror, Rotate	•	•	•	•
3D Move, Copy, Mirror, Rotate		•	•	•
3D				
Work Plane Creation		•	•	•
3 Axis 3D Projecting and Wrapping		•	•	•
Set Geometry Z Levels		•	•	•

R = Router S = Stone OPT = Extra Cost Option

Alphacam V8	Essential	Standard	Advanced	Ultimate
Edit Geometry Z Point by Point			•	•
Solid Model Feature Extraction and Utilities			•	•
4/5 Axis 3D Projecting and Wrapping				•
UTILITIES				
Snap Points (including Auto Snaps)	•	•	•	•
Points to Lines/Arcs	•	•	•	•
Auto-Close Contours	•	•	•	•
Fold/Unfold, Develop to Flat			•	•
Join Parts with Bridge			•	•
Link Adjacent Circles			•	•
CAD UTILITIES				
Dimensioning and Hatching	•	•	•	•
User Definable Layers	•	•	•	•
Set/Edit Line Types	•	•	•	•
Constrained Parametric Sketching			•	•
NESTING				
Manual Nesting	•	•	•	•
True Shape and Rectangular Nesting from Screen	•	•	•	•
True Shape and Rectangular Nesting from Nest List		•	•	•

R = Router S = Stone OPT = Extra Cost Option

Alphacam V8	Essential	Standard	Advanced	Ultimate
Sheet Database		•	•	•
Area Estimate from Part or Sheet		•	•	•
MACHINING				
2D Contour Routing and Pocketing	•	•	•	•
Drilling/Cutting Holes	•	•	•	•
Multidrilling (Multiple Spindle Drill Block)	•	•	•	•
3D Engraving	•	•	•	•
Manual Tool Path	•	•	•	•
Lead-In/Out Moves to 2D Tool Paths	•	•	•	•
Residual Machining when Pocketing	•	•	•	•
Sawing Vertically		•	•	•
Cutting with Disk		S	S	S
Polishing		S	S	S
Machining Styles		•	•	•
Residual Machining when Routing		•	•	•
Helical Interpolation		•	•	•
Auto Z Depth Recognition (from Geometry Z)		•	•	•
3-Axis Spline/Polyline Machining		•	•	•
3 Axis Surface Machining		•	•	•

R = Router S = Stone OPT = Extra Cost Option

Alphacam V8	Essential	Standard	Advanced	Ultimate
2D Contour Routing and Pocketing with Sloping Sides		•	•	•
2D Contour Routing and Pocketing with Profiled Sides			•	•
Sawing at Definable Tilt Angle			•	•
Lead-In/Out Moves to 3D Tool Paths			•	•
Surface/Solid Cutting with Disk			S	S
Enhanced 3 Axis Surface Machining Strategies			•	•
3 Axis Solid Machining			•	•
Cut Between Two Geometries				•
4/5-Axis Spline/Polyline Machining				•
4/5 Axis Surface and Solid Machining				•
MACHINE DATA EDITING				
Associative Tool Paths (Tool Path Updating)	•	•	•	•
Tool Path Data	•	•	•	•
Adjust Rapid Positioning Moves	•	•	•	•
Add/Remove Support Tags	•	•	•	•
Adjust Feed Rate Around Corners		•	•	•
Edit Feed Rate and Z Values at Point Along Tool Path		•	•	•
Set Pocketing Start Point(s)		•	•	•
Convert 3D Tool Path to Helical Arcs			•	•

R = Router

S = Stone

OPT = Extra Cost Option

Alphacam V8	Essential	Standard	Advanced	Ultimate
3 Axis Tool Axis Conversion to Vertical or Work Plane			•	•
Smooth 5-Axis Tool Path				•
Edit Tool Cutting Angle				•
4/5 Axis Tool Axis Conversion				•
MACHINE CONFIGURATION				
Definable Clamps and Fixtures		•	•	•
Move/Edit Clamps and Fixtures			•	•
Definable Machine Configuration			•	•
SIMULATION				
Shaded Simulation	•	•	•	•
Solid Simulation		•	•	•
Full Machine Simulation			•	•
VISUAL BASIC FOR APPLICATIONS (VBA)				
Turn Add-Ins On/Off	•	•	•	•
Run Macros	•	•	•	•
Open VBA Project for Editing			•	•
Integrated VBA Editor			•	•
OTHER				
Includes Part Modeler				•

R = Router

S = Stone

OPT = Extra Cost Option



Our CNC routers thrive on Alphacam's nesting software.



- John Sheppard, Production Director, Collins and Hayes

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ALPHACAM

CABINET VISION

CABNETWARE

JOBSITE COMPANION

SOLID DESIGN

PLANIT SOLUTIONS, INC.

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