

MecSoft Corporation
Your CAM Partner

MecSoft

RhinoCAM 2016

Computer Aided Manufacturing inside Rhino®

Powerful | Easy To Learn | Easy To Use | Value Priced



Includes MILL, TURN, NEST & ART modules

A complete CNC programming system running fully inside Rhino for rapid prototyping, mold & die, tooling, wood working, general machining, hobby & education

Rhino's modeling + RhinoCAM's machining = Unlimited possibilities!

RhinoCAM's MILL module includes powerful 2.5, 3, 4 and 5 axis machining functionality to program CNC mills. Comes with hundreds of free post-processors and the ability to create new ones.

RhinoCAM's TURN module is a complete 2 axis CNC turning center programming system, including Roughing, Finishing, Grooving and other machining methods and also free post-processors.

RhinoCAM's NEST module, with both Rectangular & True Shape nesting, is used for optimally arranging and fitting arbitrary part geometry shapes onto sheets of stock material.

RhinoCAM's ART module converts artwork to geometry suitable for machining. Used for modeling artistic shapes using bitmap images, it extends the capabilities of the machining modules.

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RhinoCAM - MILL 2016

RhinoCAM - MILL is one of the 4 modules in the RhinoCAM product suite that is used for programming CNC mills. It is ideal for rapid-prototyping, mold & die, tooling, wood working, general machining, hobby and education. and includes 2.5, 3, 4 and 5 axis machining functionality. It comes with hundreds of free post-processors and a post-processor generator to create your own. Priced right for the cost conscious buyer, RhinoCAM - MILL software delivers outstanding value for your investment.



Configurations

RhinoCAM - MILL Standard (STD)

A multi-purpose program ideal for panel-processing, rapid-prototyping, hobby and educational markets where ease of use is a paramount requirement. Includes 2 & 3 axis machining methods.

RhinoCAM - MILL Expert (EXP)

Includes all of STD functionality plus a wider range of 2, 3 axis methods as well as 4 axis Indexed and continuous roughing and finishing operations as well as advanced simulation.

RhinoCAM - MILL Professional (PRO)

For demanding users with sophisticated requirements such as mold, die & tooling, woodworking industries. Includes all of EXP plus indexed 5 axis machining and advanced simulation.

RhinoCAM - MILL Premium (PRE)

For demanding users with highly sophisticated manufacturing requirements such as aerospace, advanced mold making and woodworking. All of PRO functionality plus continuous 5 Axis machining.

Common Features in 2016	STD	EXP	PRO	PRE
32 & 64 Bit	●	●	●	●
Default Knowledge Base	●	●	●	●
Predefined Regions Creation	●	●	●	●
Drag/Drop Tool, Knowledge Bases	●	●	●	●
Avoid Regions	●	●	●	●
Manual Tabs/Bridges Creation	●	●	●	●
Stepped Tooling	●	●	●	●

4 Axis Milling	STD	EXP	PRO	PRE
4 Axis Indexed Machining		●	●	●
4 Axis Auto Multiple Indexing		●	●	●
4 Axis Continuous Facing		●	●	●
4 Axis Continuous Pocketing		●	●	●
4 Axis Continuous Profiling		●	●	●
4 Axis Continuous Engraving		●	●	●
4 Axis Parallel Roughing		●	●	●
4 Axis Parallel Finishing		●	●	●
4 Axis Radial Finishing		●	●	●
4 Axis Projection Pocketing		●	●	●

Toolpath Editing	STD	EXP	PRO	PRE
Toolpath Graphical Viewing	●	●	●	●
Toolpath Graphical Editing			●	●
Toolpath Instancing			●	●
Toolpath Arc Fitting			●	●

2 1/2-Axis Milling	STD	EXP	PRO	PRE
2-Axis Roughing	●	●	●	●
High Speed Pocketing	●	●	●	●
Pocketing	●	●	●	●
Profiling	●	●	●	●
Facing	●	●	●	●
Engraving	●	●	●	●
V-Carving	●	●	●	●
V-Carve Roughing	●	●	●	●
Chamfering	●	●	●	●
Hole Making	●	●	●	●
T-Slot Milling	●	●	●	●
Thread Milling	●	●	●	●
Re-Machining			●	●

5 Axis Milling	STD	EXP	PRO	PRE
5 Axis Indexed Machining			●	●
5 Axis Continuous Curve Projection Machining			●	●
5 Axis Continuous Flow Curve Machining			●	●
5 Axis Between 2 Curves Machining			●	●
5 Axis Drive Curve Machining			●	●
5 Axis Surface Normal Machining			●	●
5 Axis Swarf Machining			●	●

Post Processor Generator	STD	EXP	PRO	PRE
Customizable Post Generator	●	●	●	●
Simulate Cycles	●	●	●	●
Arc Output	●	●	●	●
Helix Output	●	●	●	●
Spiral Output	●	●	●	●
5 Axis Output			●	●

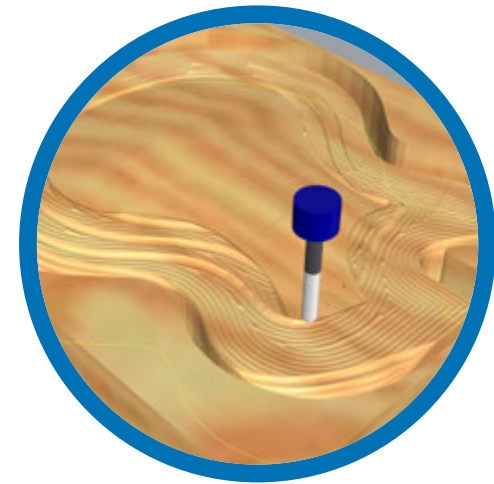
3 Axis Milling	STD	EXP	PRO	PRE
Horizontal Roughing	●	●	●	●
Parallel Finishing	●	●	●	●
Horizontal Finishing	●	●	●	●
Radial Machining	●	●	●	●
Spiral Machining	●	●	●	●
Clear Flats Machining		●	●	●
Plunge Roughing		●	●	●
Horizontal Re-roughing		●	●	●
Plunge Re-roughing		●	●	●
Projection Pocketing		●	●	●
3D Offset Profiling		●	●	●
3D Offset Pocketing		●	●	●
Pencil Tracing		●	●	●
Valley Re-Machining		●	●	●
Plateau Machining		●	●	●
Steep Area Parallel Machining		●	●	●
Horizontal Hill Machining		●	●	●
Curve Machining		●	●	●
Between 2 Curves Machining		●	●	●
Reverse Post Machining		●	●	●

Hole Making	STD	EXP	PRO	PRE
Automatic Hole Selection, Sorting	●	●	●	●
Drilling	●	●	●	●
Tapping	●	●	●	●
Boring	●	●	●	●
Reverse Boring	●	●	●	●
User Defined Cycles	●	●	●	●
4 Axis Drilling		●	●	●
4 Axis Tapping		●	●	●
4 Axis Boring		●	●	●
4 Axis Reverse Boring		●	●	●

Miscellaneous	STD	EXP	PRO	PRE
HTML Based Shop Documentation	●	●	●	●
Knowledge Base	●	●	●	●
Default Knowledge Base	●	●	●	●
Machine Control Operations	●	●	●	●
Explode Cabinet Model	●	●	●	●
Multiple Setups			●	●
Rotate Table Setups		●	●	●
Fixture Offset Programming			●	●
Check Surface Boundary Creation			●	●
Tool Silhouette Boundary Creation			●	●
Tool Double Contact Boundary Creation			●	●
Tool Holder Collision Boundary Creation			●	●

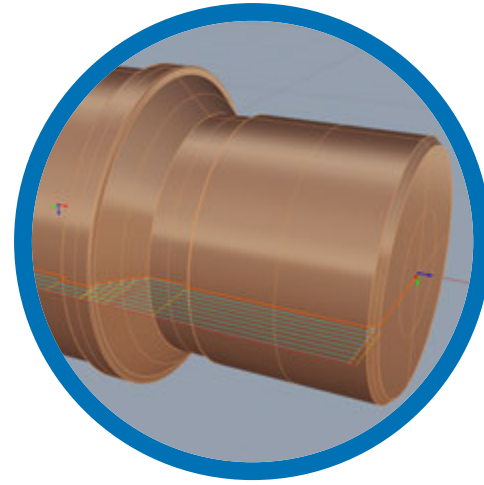
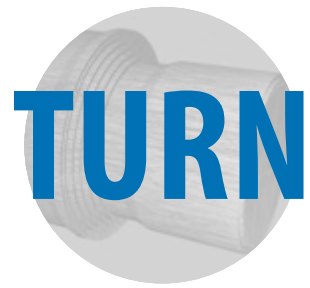
Simulation	STD	EXP	PRO	PRE
Toolpath Animation	●	●	●	●
Cut Material Simulation	●	●	●	●
Advanced Cut Material Simulation	●	●	●	●
Machine Tool Simulation			●	●

Tools	STD	EXP	PRO	PRE
Standard Mills (Ball, Flat, C Rad., Vee, Taper)	●	●	●	●
Standard Drills (Drill, Tap, Bore, Rev. Bore)	●	●	●	●
Holder Collision Detection	●	●	●	●
Form Tools	●	●	●	●



RhinoCAM - TURN 2016

RhinoCAM - TURN is a powerful 2 axis turning center/lathe programming system, that is included as a separately licensed module inside RhinoCAM. This module includes Turn Roughing, Finishing, Groove Roughing, Finishing, Threading, Parting, Hole Machining methods & free post processors.



2 Axis Turning	RhinoCAM-TURN
Roughing	●
Finishing	●
Groove Roughing	●
Groove Finishing	●
Threading	●
Follow Curve	●
Parting Off	●
Upgraded 3D Model Slicing	●
Global Part Object	●
Materials for Stock Models	●
Knowledge Base Loading and Saving	●
Tool Path Viewer	●
MopSets	●
Machine Control Operations	●
Fixture Offset Operations	●
Drag and drop operations from Knowledge Base	●
Diameter programming migrated to VisualTURN from Post	●

Hole Making	RhinoCAM-TURN
Drilling	●
Tapping	●
Boring	●
Reverse Boring	●

Toolpath Simulation	RhinoCAM-TURN
Toolpath Animation	●
Cut Material Simulation	●
Part to Stock Comparison	●

Post-Processor Generator	RhinoCAM-TURN
User customizable post-processor generator	●

RhinoCAM - NEST 2016

RhinoCAM - NEST, another module of RhinoCAM, is a cost effective solution for optimally arranging and fitting geometric shapes onto sheets of stock or sheet material. It provides two primary nesting capabilities: *Rectangular Nesting* and *True Shape Nesting*. For both solutions, individual 2D CAD shapes can be arranged on sheets according to user-defined quantities, spacing, and with orientation control, including material grain restrictions.



Rectangular Nesting is very fast and useful in cases where the shapes are rectangular, such as when nesting panels for the assembly furniture industry.

True Shape Nesting considers the true shape of the parts to be nested and can place smaller parts within cutouts of larger parts and can also accept true shape remnants as material sheets. RhinoCAM - NEST saves the resultant nested geometry for follow-up applications' use such as machining or fabrication.

User Interface Enhancements	RhinoCAM-NEST
Wizard Interface	●
Preview before output	●

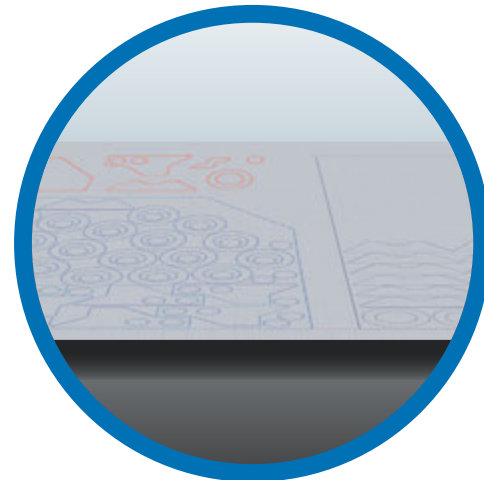
Nesting Methods	RhinoCAM-NEST
Rectangular (sometimes referred to as 'block' nesting)	●
True Shape	●

Global Parameters	RhinoCAM-NEST
Distance limits between part and sheet	●
Distance limits between two adjacent parts	●
Accuracy of nesting	●

Sheet Parameters	RhinoCAM-NEST
Sheet start corner	●
Nesting direction	●
Grain direction	●
Unlimited number of sheets	●
Sheet layering by color	●

Part Parameters	RhinoCAM-NEST
Distance limits between part and part	●
Rotation limits	●
Mirroring	●
Island recognition	●
Part-in-Part	●

Miscellaneous	RhinoCAM-NEST
Tagging of parts	●
Nesting for cabinet making	●
Nesting for sign making	●

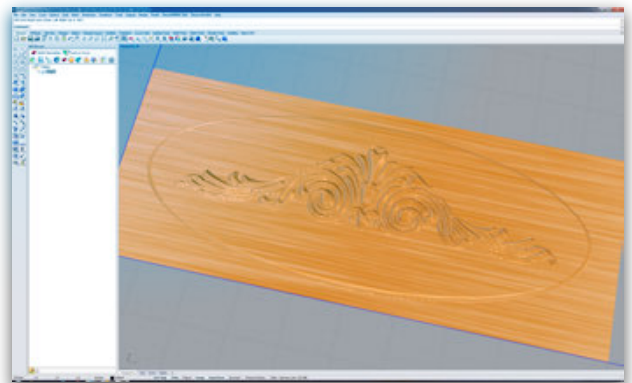
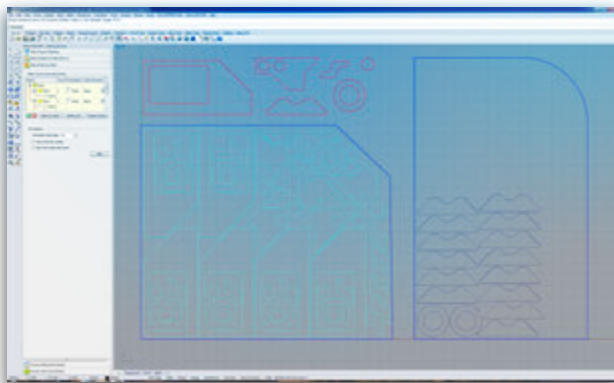
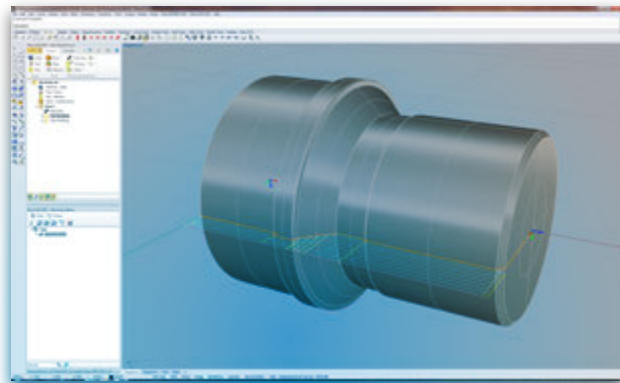
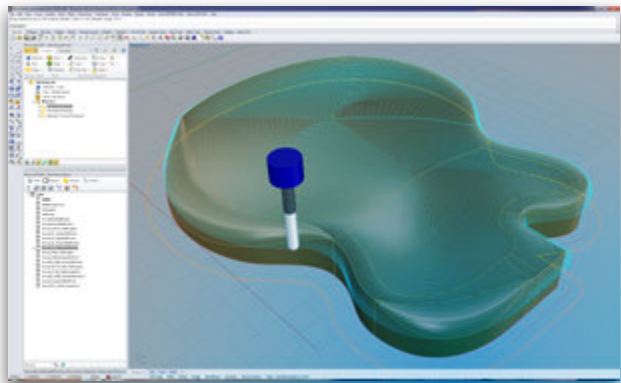


RhinoCAM - ART 2016

RhinoCAM - ART is a module within the RhinoCAM product suite used to convert artwork into geometry suitable for machining. It uses special modeling techniques for modeling artistic shapes using raster bitmap images. Used in conjunction with Rhino's modeling tools, it offers a complementary set of modeling techniques for jewelry design, sign making and model making.



Feature	RhinoCAM - ART
Create 3D Relief from bitmap image files	●
Ability to limit creation of reliefs using colors and/or curves	●
Create puffed up 3D volumes using closed curves	●
Create 3D sweep volumes using various profiles	●
Combine 3D volumes using various Boolean operations during creation	●
Export created 3D volumes as Mesh geometry to CAD system	●
Convert 3D CAD geometry to ART 3D volumes	●
Create 2D Curve geometry from image files using Raster to Vector operations	●
All operations are associative to CAD geometry used in creation	●
Save and reuse previously created 3D volumes using Shape Library functionality	●



System Requirements

- Runs on both 32 bit and 64 bit versions of Rhino 5.0
- CPU: Pentium class or higher processor
- RAM: Minimum: 1GB, Recommended: 4GB or higher
- Disk: 700 MB of free disc space
- OS: Microsoft Windows Vista, 7, 8, 8.1, 10
- Graphics: Requires OpenGL, Recommended OpenGL 2

Other

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