



Mastercam[®] **Art**



COMBINING AN ARTIST'S EYE WITH A
COMPUTER'S EASE

The PROCESS

Mastercam lets you go from "art to part" with a single software package. A simple process takes you from your flat art to a beautifully sculpted piece that comes off the machine with exactly the look you want.



Import Art

Bring in clip art, a CAD file, or a scanned sketch or photograph. Mastercam Art converts the artwork into flat, machinable geometry, giving you a basic palette from which to craft your finished model.

If you need ideas to start your project, Mastercam's Classic Art Library gives you 5,000 artistic elements to easily place in your model.

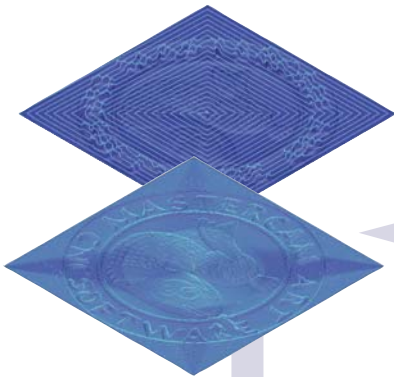
Build a 3D Model

Quickly create a full 3D sculpture from your 2D artwork by picking elements of your flat art. Mastercam "puffs up" the art using a cross-section you control. You can add or remove one section from another, and easily modify the model by eye to make sure it's exactly what you want.



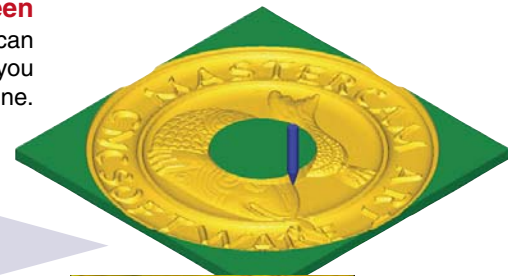
Create a Toolpath

Pick one of Mastercam Art's specialized toolpaths to cut your project. These fast, reliable cut strategies are easily modified, letting you quickly try out a variety of cut techniques for the perfect result.



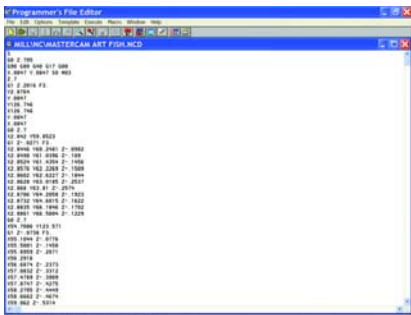
Machine It On-Screen

Using Mastercam's solid-model verification, you can see an on-screen simulation of your cut part before you put stock on the machine.



Output Code To Your Machine

Quickly create G code for your machine using Mastercam's extensive post processor library.





Mastercam®, the world leader in CAM software,* brings its power and experience to artistic relief design and cutting with Mastercam Art. Now you can quickly bring your 2D sketches, clip art, photos, and CAD files to life by crafting them on screen and cutting them with easy, specialized toolpaths. Creating basic 2D art to sophisticated 3D sculpture in minutes, Mastercam Art is the ultimate tool for anyone trying to add that extra sculpted flair to their work.

Mastercam Art is an add-on to Mastercam Mill or Mastercam Router products.

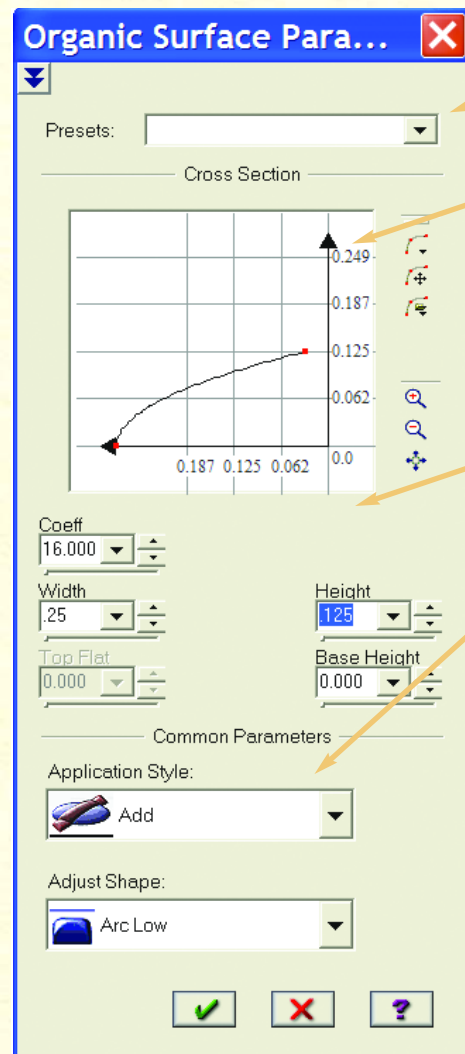
*Mastercam is the most widely-used CAM software in the world according to CIMdata, Inc. Mastercam has maintained this position since it was first measured in 1995.



Mastercam Art puts sculptured 3D artwork within everyone's reach - without the need to be a surface modeling expert. You quickly shape and change your model on-screen until it looks just the way you want it. Art has great visualization tools and instant editing features, including dimensional and non-dimensional input options.

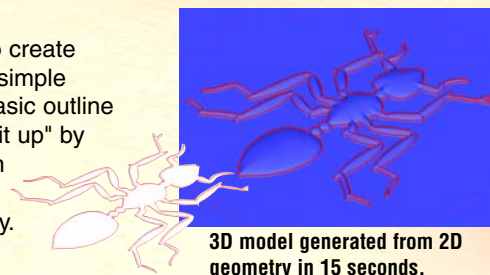
COMBINING AN ARTIST'S EYE WITH A COMPUTER'S EASE

Beginners can create their first complex models by defining shapes from clipart or their own scanned artwork. Experienced CAD/CAM users have a full range of modeling tools to create even more sophisticated pieces. And in all cases, Mastercam Art tracks your model step by step, allowing quick and easy modifications any time you want.



Save your knowledge
It's common to re-use your creation settings on various jobs. Mastercam Art lets you save off your favorite combinations as "presets," ready to be used again in an instant.

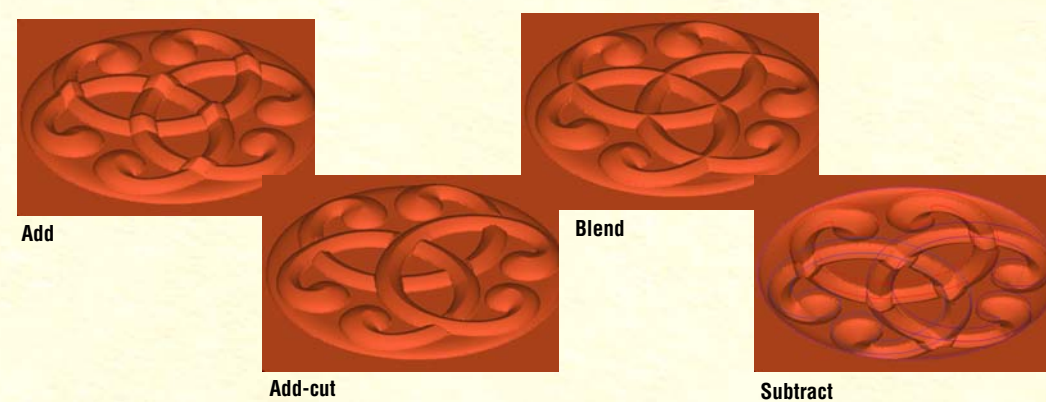
Quick Creation
Mastercam Art's power is its ability to create complex organic surfaces with a few simple clicks. Once you have selected the basic outline of your project, you can quickly "puff it up" by applying a cross-section to it. You can create your own, or use a dynamic cross-section from the included library.



3D model generated from 2D geometry in 15 seconds.

Easy Refinement
You choose to refine your cross-section shape "by eye" through clicking and dragging control points on the graph, or with mathematical precision by entering values.

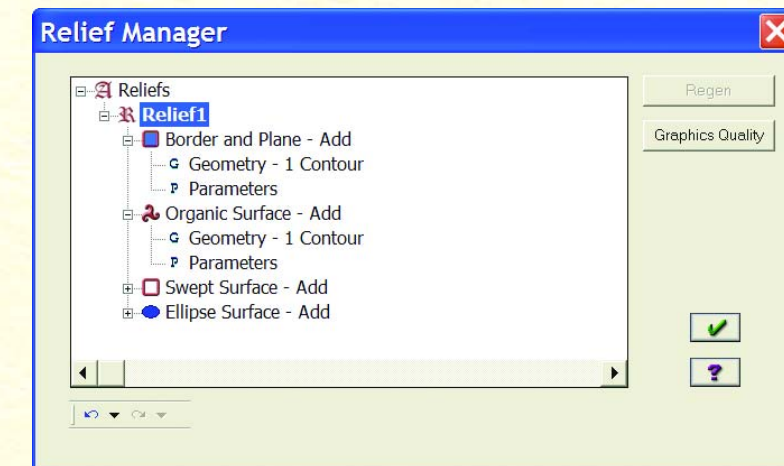
Sculpting Options
Mastercam Art's various application styles let you add, subtract, intersect, and blend multiple organic shapes. You can test a variety of dramatically different looks by simply choosing various application styles for each shape.



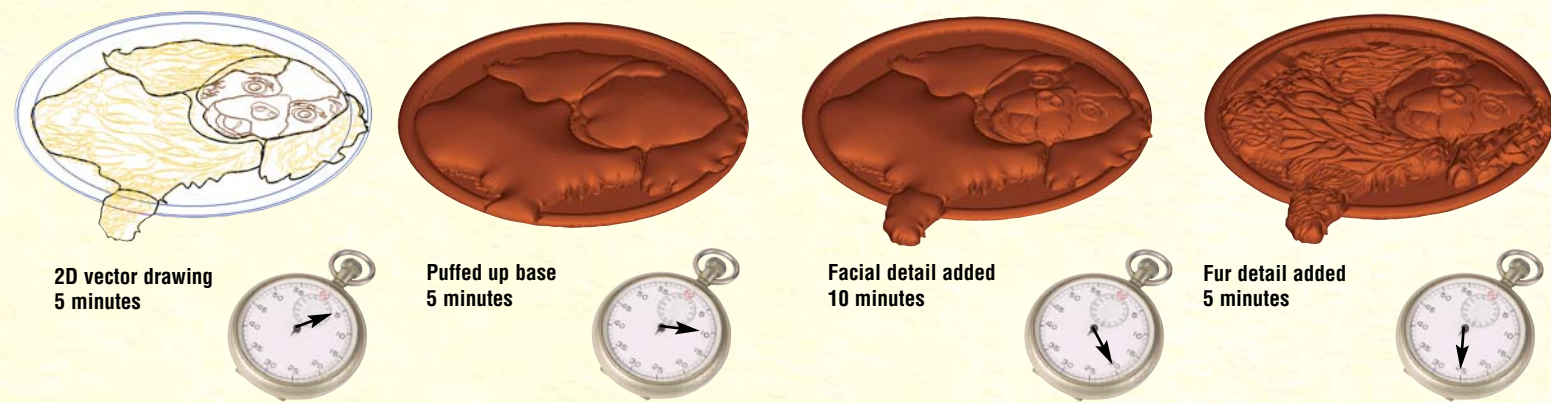
Relief Manager
Track your project step by step with Mastercam's Relief Manager. You can instantly adjust, reorder, or edit each element, letting you put the finishing touches on your project and giving you complete control. Hide and show elements for fast design changes.

Rough Model Gets Precise With a Single Click
Model using a "quick" screen resolution for fast redraws and experimentation. You can boost the resolution at any point to get a crisp model with as much detail as you need.

Experimentation Made Easy
Quickly undo and redo your modeling steps, ensuring that your model is always flexible and you can go back to previous versions.



Stack It Up in Minutes



2D vector drawing 5 minutes

Puffed up base 5 minutes

Facial detail added 10 minutes

Fur detail added 5 minutes

ONCE YOU'VE MODELED YOUR PROJECT, MASTERCAM ART GIVES YOU A WIDE VARIETY OF CUTTING TECHNIQUES TO ENSURE THE PART COMES OFF THE MACHINE EXACTLY HOW YOU IMAGINED IT.

Accuracy and Speed

Mastercam Art's toolpaths are created specifically for accurately machining artistic surfaces. Built with an eye toward speed, these toolpaths give you machine-ready results - usually in seconds.

Pick the Perfect Technique

Mastercam gives you a powerful set of techniques/strategies to fit every project. Roughing toolpaths use big tools for quick stock removal, while finishing toolpaths use smaller tools to pick up the detail. You can choose ball, bullnose, flat, and a variety of taper cutters.

Machine at the Resolution You Need

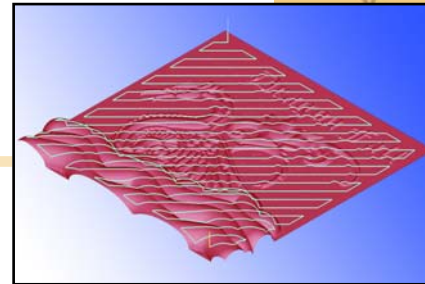
Mastercam Art starts with a clean "canvas" to which you add your art. These canvases can easily be combined into a single project, letting you model highly detailed work on a "high resolution" canvas section and looser work on a "medium resolution" section. This can dramatically speed your modeling and programming time. You can also put these canvases on different machining planes for added flexibility.

Save Your Knowledge

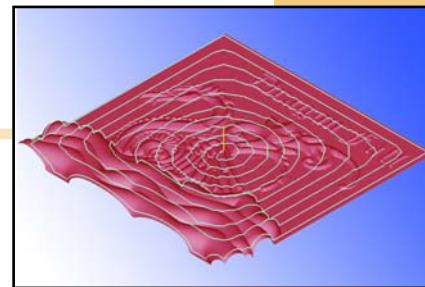
Mastercam's Operations Manager lets you edit your cut strategies at any time, and generate a new toolpath with a single click. You can also save off successful sets of strategies, and apply them quickly to future jobs.

See it Before You Cut It

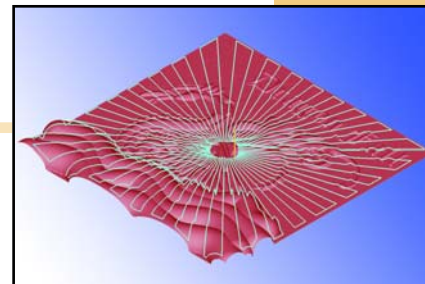
See what your part will look like when it comes off the machine with Mastercam's solid-model toolpath verification. Watch the part being cut on-screen, and inspect it by rotating and zooming in on any detail.



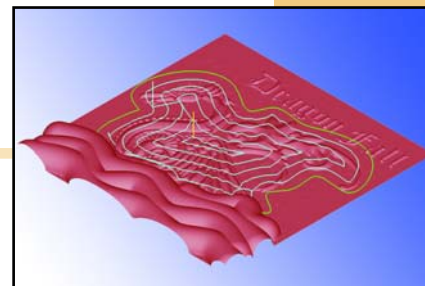
Parallel at a Given Angle



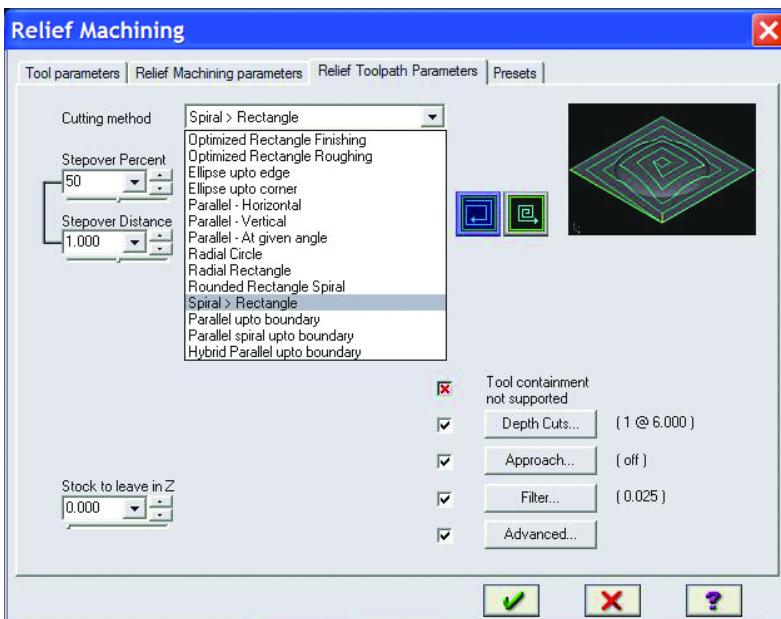
Rounded Rectangle Spiral



Radial to Corner



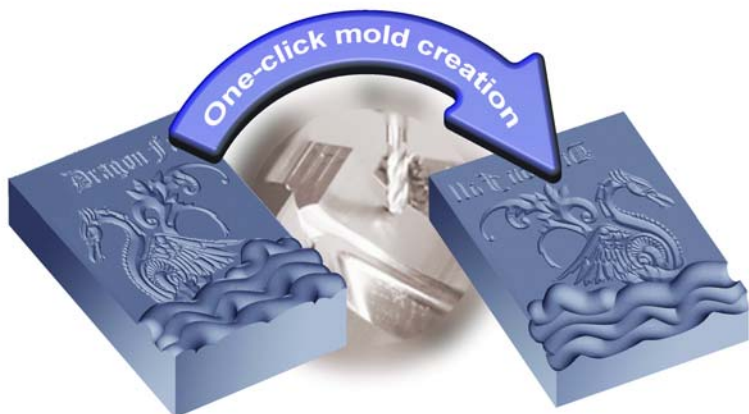
Spiral to Boundary





“MASTERCAM ART GIVES ME THE PERFECT COMBINATION OF FREE-FORM ART AND USER-FRIENDLY TECHNOLOGY.”

- Robert Hendricks, Owner
Hendricks Manufacturing
Salt Lake City, UT



Single-click Mold Creation

After you've created your "positive" model, you can convert it into a mold with one simple mouse click. It can also automatically reverse your text.

From Picture to Sculpture

Mastercam Art delivers powerful, easy, artistic tools, including the ability to create a 3D model directly from a digital image. Scan in a photo, and Mastercam Art will create an organic, sculpted piece using the highlights and shadows as guidelines for height.



Hardware Requirements

The following suggestions are a minimum performance specification. To increase performance, the best value for the dollar is to increase the processor speed, then the RAM and finally the graphic card memory.

- Operating Systems - XP or Windows2000, Internet Explorer 6 or better
- Processor - Intel Pentium 4, 2 GHz processor or better
- Memory - 512 MB memory or better
- Windows compatible mouse
- Minimum resolution is 1024x768, 1280x1024 or better is recommended.
- Graphics Cards - 64 MB memory with 1280x1024 graphics mode or better. (Nvidia has been a very successful graphics card for Mastercam).

Mastercam®

When Second Best Won't Cut It.

cnc software, inc. 671 Old Post Road, Tolland, CT 06084 USA
(800) 228-2877 • Fax (860) 872-1565 • www.mastercam.com • mcinfo@mastercam.com

