

SmartCAM FreeForm Machining™

for Microsoft® Windows NT™ & Windows 95™

*Generate fast,
gouge-free
multi-surface
machining processes
from solid, surface,
or wireframe
models.*

Integrate Design With Manufacturing Engineering

Machine directly from surfaces and solids (using IGES or ACIS .SAT formats) or from wireframes (using IGES or DXF formats). If your design model needs additional surface editing, SmartCAM FreeForm Machining offers robust NURBS surfacing tools to get the job done quicker. A shaded rendering of the design model lets you verify the design before you generate toolpath.

Shorten Part Delivery Times

SmartCAM FreeForm Machining gives you comprehensive roughing, finishing, pocketing, profiling, and drilling solutions that help you shorten part delivery times, including:

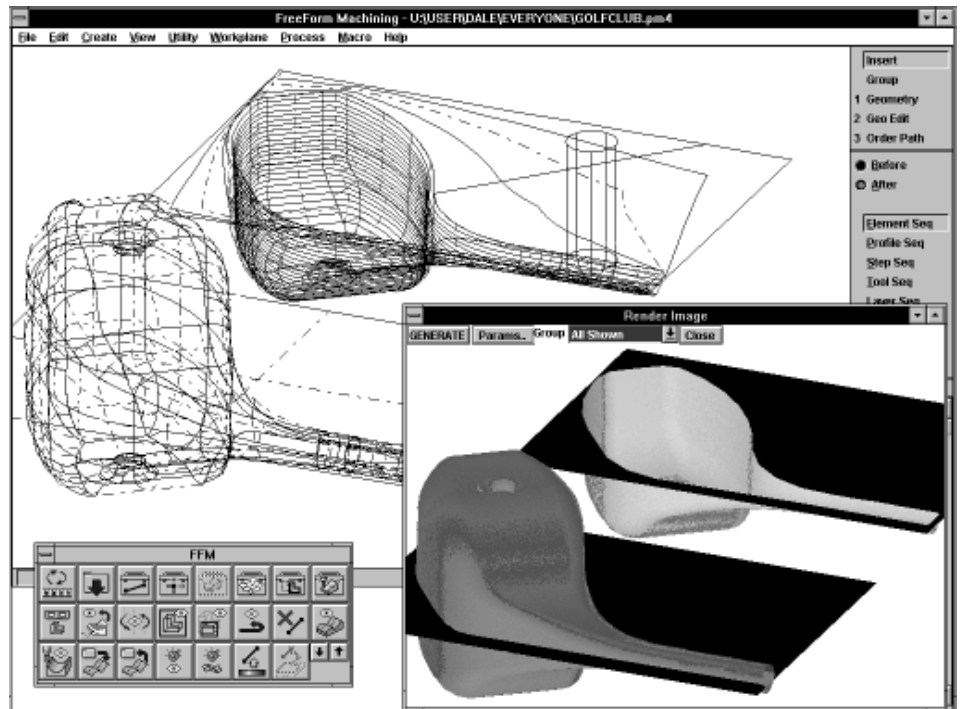
- **Gouge-Free Contour Rough And Finish Machining**
FreeForm Machining handles the toughest jobs in hardened steels.
- **Parallel Plane Machining**
Includes straightline machining across multiple surfaces, uphill-only cutting, and z-increment roughing, with climb and conventional cutting options.
- **Containment Boundaries**
Parallel plane machining supports user defined toolpath containment boundaries for maximum machining productivity.
- **Projection Machining**
Automatically project toolpath onto, or offset from, any group of surfaces for efficient machining of mold cores, detail work, or lettering.

SmartCAM FreeForm Machining

SmartCAM FreeForm Machining™ software is the most powerful milling solution in the SmartCAM® family of applications. It provides multiple surface and solids-based machining for a full range of parts from 2-axis work to complex 3-axis molds, dies, and prototypes. It is the fastest gouge-free machining system available. Like all SmartCAM applications, FreeForm Machining is designed to help you reduce your programming time and deliver your customer's parts quicker.

Ease Of Use

SmartCAM FreeForm Machining runs with the icon-oriented Microsoft Windows 95 or Windows NT operating systems. FreeForm Machining's graphical user interface uses manufacturing terminology and logical operational sequences that even first time users will find familiar and experienced users can apply quickly.



SmartCAM FreeForm Machining

- **Intuitive Pocketing**

Select from spiral, linear, or zigzag routines. FreeForm Machining automatically calculates correct toolpath, recognizing multilevel islands and open profiles.

- **Precise NURBS Surface Editing**

Editing tools support trimming, punching, and splitting surfaces.

- **Parting Lines**

Polylines can be created at the parting line of a surface.

- **Subroutine Support**

Save time on repetitive shapes and operations.

- **Automatic Toolpath Optimization**

Sort through toolpath solutions to find the shortest machine cycle time.

- **Productivity Macros**

Automate many machining functions to make your work faster and easier.

Eliminate Surprises

Dynamic verification capabilities improve product quality and save you machine time and material costs.

- ShowCut™ solid cutter verification shows you how your part will be cut before you put it on the machine.
- Dimensioning and notes capabilities help with shop floor documentation.
- Custom tool graphics help you visualize special tools including standard ball, bull-nosed, and square tools.

Capture Your Manufacturing Expertise

- **Job Operation Planner**

The Job Operation Planner is a unique SmartCAM function that helps you organize and store tooling and machining operations information so you can capture proven machining methods and reuse them.

- **Customization**

Almost everything about SmartCAM applications – from the user interface to the way code is output – can be customized to streamline your work. SmartCAM applications put you, not the computer, in control.

The SmartCAM FreeForm Machining Advantage

CIMdata Inc.'s NC Software Buyers Guide ranked SmartCAM applications as the best value out of 38 CAM products surveyed. That means you get maximum return on your investment. And as your business grows, the SmartCAM family of applications for 2½- through 5-axis milling, 2- through 6-axis turning, 2- through 5-axis Wire EDM and fabrication will continue to meet your competitive needs.

Call Today

For more information on how SmartCAM products can contribute to your productivity and profits, call your local CAMAX Dealer. For Dealer information, contact CAMAX at (800) 394-5300 or (612) 854-5300.

FreeForm Machining System Requirements

Windows

Computer

Minimum	386DX
Recommended	486DX or Pentium

Operating System

Windows 95 or Windows NT

Physical RAM

Minimum	16 Mb
Recommended	32 Mb

Swap Space

Minimum	24 Mb
Recommended	48 Mb of permanent swap space

Hard Disk Space

25 Mb for installation

Other Devices

CD-ROM Drive

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