

SmartCAM Advanced 3-D Machining™

for Microsoft® Windows NT™ & Windows 95™

*Generate CNC
machine processes
and code for
3-axis simultaneous
machining with
4th and 5th axis
positioning*

SmartCAM Advanced 3-D Machining

SmartCAM Advanced 3-D Machining™ software is the ideal solution for your fundamental 3-D production needs. It supports 2- through 3-axis machining as well as 4- and 5-axis positioning. As the second tier in the SmartCAM® family of milling applications, it offers the functionality you need today, plus a simple, long-term growth path for your future needs. Like all SmartCAM applications, Advanced 3-D Machining is designed to help you reduce your programming time and deliver your customer's parts quicker.

Ease Of Use

SmartCAM Advanced 3-D Machining runs with the icon-oriented Microsoft Windows 95 and Windows NT operating systems. Advanced 3-D 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.

Compatibility

SmartCAM Advanced 3-D Machining takes design information from any CAD system. IGES, DXF and CAMCAD Standard™ data

translators turn design elements into part profiles properly sequenced for machining.

Integrate Design With Manufacturing Engineering

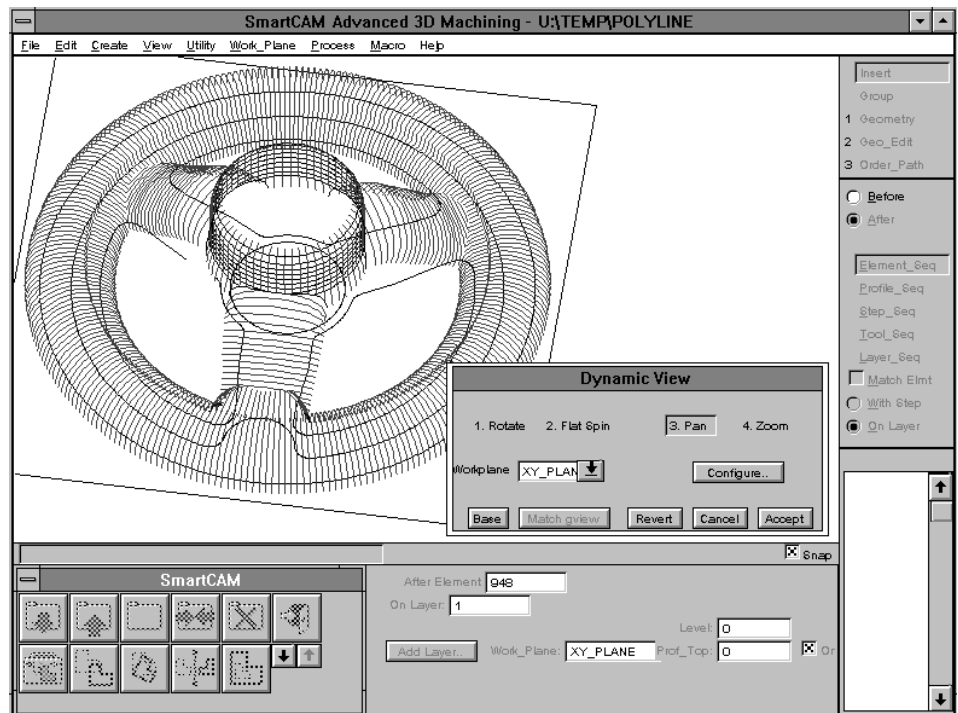
Machine directly from surfaces and solids (using IGES or ACIS .SAT formats) or from wireframes (using IGES or DXF formats). If your design model needs additional surface editing, SmartCAM FreeForm Machining offers robust NURBS surfacing tools to get the job done quicker. A shaded rendering of the design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

Shorten Part Delivery Times

SmartCAM Advanced 3-D Machining provides comprehensive roughing, finishing, pocketing,

and drilling solutions that help you get jobs done faster and shorten part delivery times, including:

- **Surfacing Support**
You can generate toolpath for ruled, spun, lofted, form patch, Coons, and draft surfaces. Filleting tools help you connect surfaces with both constant and variable radius blends.
- **Fourth and Fifth Axis Support**
Get greater productivity with indexing head setups and fourth-axis rotary cutting.
- **Projection**
Project planar geometry onto, or offset from, any surface automatically.
- **Intuitive Pocketing**
Select from spiral, linear or zigzag routines. Automatically calculate correct toolpath,



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recognizing multilevel islands and open profiles.

- **Gouge Correction**

Automatically check and correct your profiles for gouging.

- **Intelligent Drilling**

Automatically create drilling codes based on the parameters of the tool chosen.

Save Time And Money

- Subroutine support saves you time on repetitive shapes and operations.
- Automatic Toolpath Optimization sorts through toolpath solutions to find the shortest machine cycle time.
- Macro Productivity Tools automate commonly used machining functions to make your work faster and easier.

Eliminate Surprises

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

- ShowCut™ shaded volumetric simulation of the machining process shows you how your material 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 as well as the standard ball, bull-nosed, and square tools supported by the software.

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 Advanced 3-D 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.

Advanced 3-D Machining System Requirements

Windows

Computer

Minimum	386DX
Recommended	486DX or Pentium

Operating System

Windows 95 or Windows NT

Physical RAM

Minimum	32 Mb
Recommended	64 Mb

Swap Space

Minimum	24 Mb
Recommended	32 Mb of permanent swap space

Hard Disk Space

25 Mb for installation

Other Devices

CD-ROM Drive

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