SmartCAM Advanced Milling™ v2014

If toolpath is important to you, SmartCAM is the CAM software you need

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SmartCAM Advanced Milling CAM Generates optimized 3-axis toolpath with Surface Meshing, 4th- & 5th-axis Indexing and 4th-axis Wrapping

SmartCAM Advanced Milling

SmartCAM Advanced Milling™ software is the ideal solution for your fundamental 3-D CNC milling production needs. It supports 2- through 3-axis machining as well as 4- and 5-axis positioning from wireframe and solids-based data. 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 Milling is designed to help you reduce your programming time and deliver your customer's parts quicker.
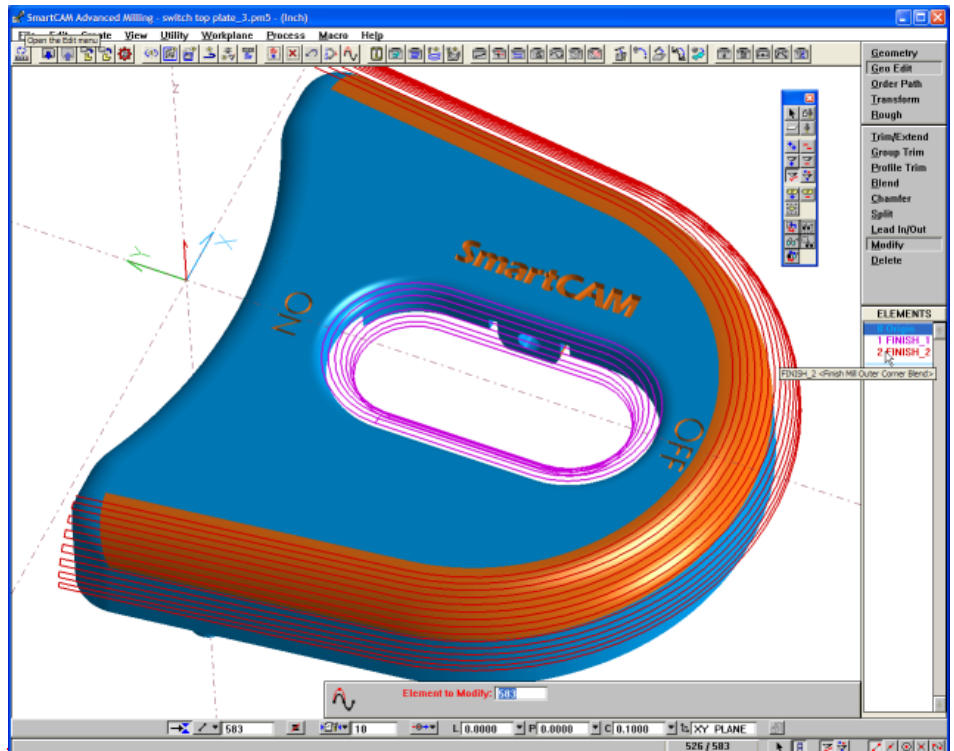
Ease of Use

SmartCAM applications operate on Microsoft Windows 7 Professional, Microsoft Vista® Business, Windows XP® and Windows 2000 operating systems. The user interface uses manufacturing terminology and logical operation sequences that even first time users will find familiar and experienced users can apply quickly.

Shorten Part Delivery Times

SmartCAM Advanced 3-D Machining provides comprehensive roughing, finishing, pocketing, and drilling solutions that help you get your CNC milling jobs done faster and shorten part delivery times, including:

- **Solid Model Pocket Roughing**
  Create pocket roughing toolpath on solids containing prismatic features.

- **Solid Model Profile Finishing**
  Create finish and multi-pass, semi-finishing toolpath from solids containing prismatic features.

- **Mesh Tools**
  You can generate mesh toolpaths to machine simple or complex shapes including spun, translated, rafted, ruled, lofted, form patch, and coons surfaces. Filleting tools help you connect meshes with both constant and variable radius blends.

- **4th Axis Wrapping**
  You can wrap flat geometry around a cylinder on a rotary axis.

- **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 mesh automatically.

- **Intuitive Pocketing**
  Select from spiral, true spiral, linear or zigzag routines. Automatically calculate correct toolpath, recognizing multilevel islands and open profiles.

- **Gouge Correction**
  Automatically check and correct your profiles for gouging.

- **Automated Holemaking**
  Automatically create drilling codes based on the parameters of the tool chosen.

SmartCAM Advanced Milling

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.

- 3D Cut Verification – ShowCut™ simulates the tool motion while cutting the part from a stock model, just as it will happen on your machine, letting you verify your program before generating toolpath..
- 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 standard tools supported by the software.

CAD Formats Supported

Import, export, display, and machine from solid, surface or wireframe CAD data using SAT, STEP, IGES, DXF or DWG formats. SmartCAM files may also be exported as STL surfaces.

Additionally, two native file data translators are available for purchase for SolidWorks® .SLDPRT and Autodesk® Inventor® .IPT files.

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 Milling Advantage

SmartCAM applications are the best value in the CAM marketplace. 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.

DNC & Editing Software

Every license of SmartCAM now comes with Predator CNC Editor for SmartCAM™, an OEM version of the industry-leading standard version from Predator Software, Inc.

It is the most popular 32-bit CNC code editor available on the market, is extremely easy to use and includes many features to improve the day-to-day productivity of CNC machine tools. Predator CNC Editor for SmartCAM is the ideal choice for the CNC editing and DNC needs of all SmartCAM users.

Features include DNC in the background, Math Operations including trigonometry functions, Color Highlighting of the NC program and more.

System Requirements

Operating System
Recommended: Microsoft® Windows 8® Professional, Microsoft Windows 7® Professional, Microsoft Windows Vista® Business, Windows XP Professional or Windows 2000

Processor (CPU)
Minimum: Intel Pentium® IV or AMD Athlon® XP
Recommended: Intel Pentium® IV or AMD Athlon® XP, Intel DuelCore or higher

Physical RAM
Minimum: 128 Mb
Recommended: 1 Gb or greater

Hard Disk Space
Minimum: 25MB for installation

Video Display
Minimum: 1024x768 display resolution with True Color, 32MB display RAM; hardware-accelerated OpenGL v1.2 (or higher)
Recommended: 1280x1024 display resolution with True Color, 256MB display RAM; hardware-accelerated OpenGL v1.2 (or higher)

Network Card
Ethernet or NIC card. Motherboard embedded with NIC are NOT recommended. The network card does NOT need to be attached to a network; it is used with SmartCAM software licensing.

Devices
Digitizers must be configured as a mouse. 3D Mouse supported.

More Information

For more information on how SmartCAMcnc's SmartCAM products can contribute to your productivity and profits, go to:

www.SmartCAMcnc.com

Or email:
info@SmartCAMcnc.com

Or call:
541-344-4563

(For dealer inquires, please email: dealer.inquiries@smartcamcnc.com)