SmartCAM Advanced Turning™ v2014

Experience Powerful, Flexible, Affordable...SmartCAM

> Generate CNC machine processes and code for 2-through 6-axis lathes and mill/turn centers.

SmartCAM Advanced Turning

SmartCAM Advanced Turning™ software creates efficient toolpath and CNC code for 2-through 6-axis lathes and mill/turn centers. Like all SmartCAM® applications, it 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.

Supports a Broad Range of Machines:

- 2-Axis
- 4-Axis
- Live Tooling

Shorten Part Delivery Times

SmartCAM Advanced Turning provides comprehensive solutions that help you get jobs done faster and shorten part delivery times, including:

- Fast, flexible toolpath geometry
- Automatic roughing routines for linear, contour, and groove roughing.
- Comprehensive threading support for inside and outside diameter, left- or right-hand, and straight or tapered threads.
- Better organize your data using Containers, Show/Hide, improved Layer functions and View Filters
- Intelligent drilling cycles that create code or canned cycle output for drilling, tapping, boring or counterboring operations with minimum input.
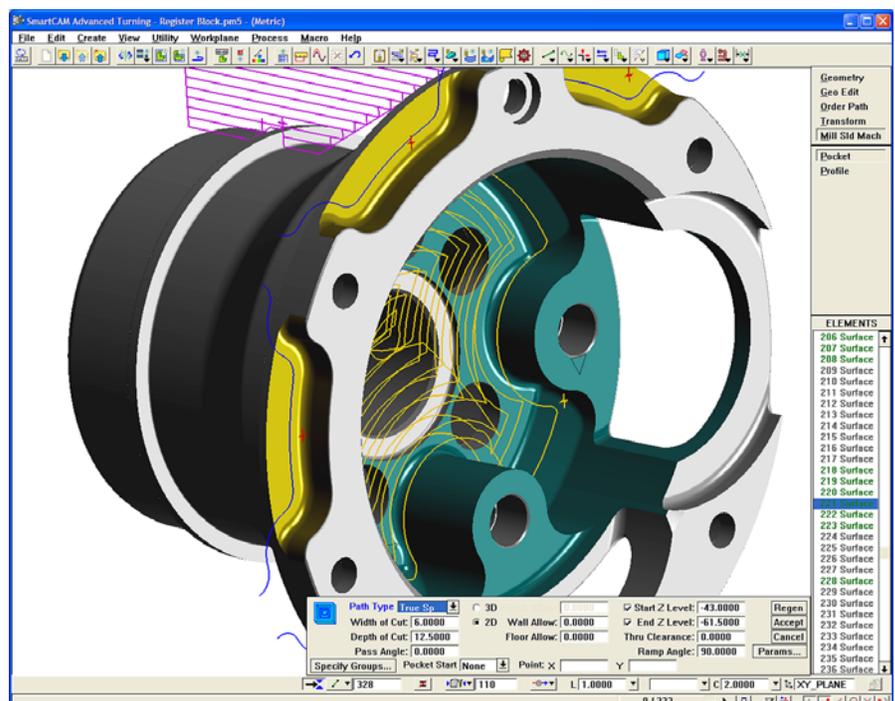
Simplifies 4-Axis Turning

- Automatically synchronizes tool motion for both turrets, yet lets you control timing.
- Shows you merged tool motion as it will occur at the machine with feed rates represented in correct relation to one another.
- Automatically creates balanced or pinch turning operations from a single profile and synchronizes tool motion.

Combine Mill/Turn Operations in a Single Model

- **Solid Model Pocket Roughing** Create milling pocket roughing toolpath on solids containing prismatic features (shown below.)
- **Solid Model Profile Finishing** Create finish and multi-pass, semi-finishing milling toolpath from solids containing prismatic features.
- Integrate C-axis operations with turning functions in a single machining model.
- Support radial and axial live tool orientations, and Y-axis motion.
- Support a full range of milling operations including milling, off-center and cross drilling, tapping, slotting, pocketing, and facing.

SmartCAM Advanced Turning
Automated Pocket Milling Toolpath Directly from the Solid Model

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.
- Show Path simulates the machining process to show 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 tools supported by the software.
- Dynamic viewing capabilities let you verify toolpath from any angle.

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 that read 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 Turning 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)