

# SmartCAM Production Turning™ V17

Experience Powerful, Flexible, Affordable...SmartCAM

Generate CNC  
machine  
processes and  
code for  
2-axis lathes.

## SmartCAM Production Turning

SmartCAM Production Turning™ software creates efficient toolpath and CNC code for 2-axis lathes. As the first tier in the SmartCAM® family of turning applications, it offers the functionality you need today plus an easy, long term growth path for your future needs. Like all SmartCAM applications, Production Turning is designed to help you reduce your programming time, improve your machining processes, 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 Production Turning provides comprehensive solutions that help you get jobs done faster and shorten part delivery times, including:

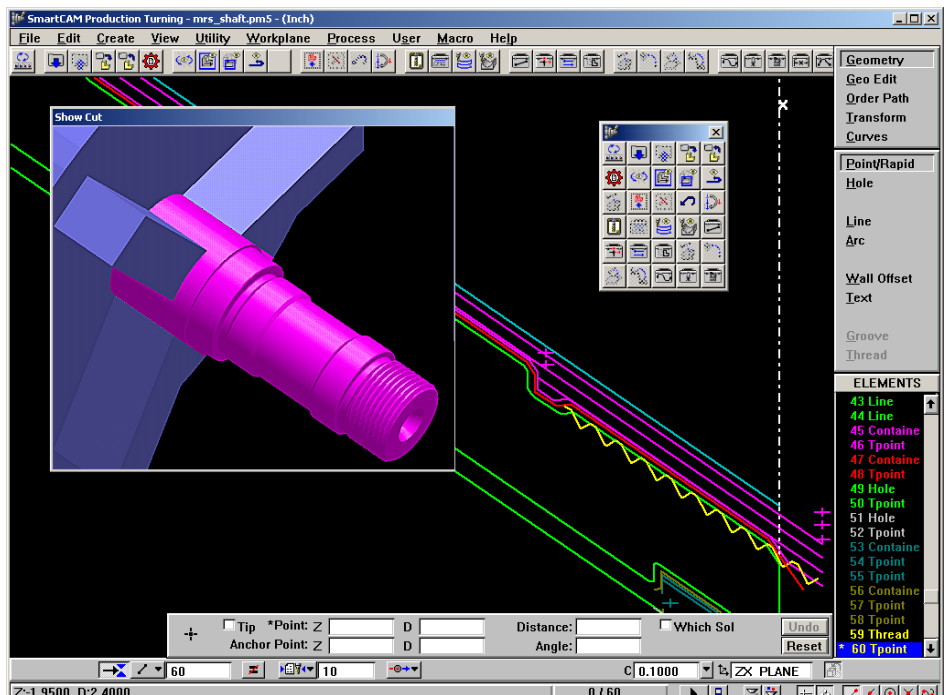
- **Fast, flexible toolpath geometry**
- **Automatic roughing routines:**
  - Linear operations are generated at any angle. For undercut roughing, SmartCAM automatically identifies the part and material boundaries for any areas not cut by the back of the tool.
  - Contour roughing follows the finish profile.
  - Groove roughing cuts are generated for the ID, OD, or face of your part.
- **Comprehensive threading support:**
  - Creates inside and outside diameter, left- or right-hand, and straight or tapered threads.
  - Uses built-in thread tables or you can create your own.
  - Generates code as a canned cycle or as toolpath.
- **Intelligent drilling cycles:**  
Quickly generate code or canned cycle output for drilling, tapping,

boring, or counterboring operations with minimal input.

## Eliminate Surprises

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

- Better organize your data using Containers, Show/Hide, improved Layer functions and View Filters
- 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 ball, bull-nosed, and square tools supported by the software.



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## 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.

## 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.

## The SmartCAM Production 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 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](http://www.SmartCAMcnc.com)

Or email:  
[info@SmartCAMcnc.com](mailto:info@SmartCAMcnc.com)

Or call:  
541-344-4563

(For dealer inquiries, please email:  
[dealer.inquiries@smartcamcnc.com](mailto:dealer.inquiries@smartcamcnc.com))

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