

# SmartCAM Advanced Fabrication™ V18

Experience Powerful, Flexible, Affordable... SmartCAM

A complete  
3-D solution for  
CNC punches,  
burners, lasers,  
waterjets, and  
punch/plasma  
machines.

## SmartCAM Advanced Fabrication

SmartCAM Advanced Fabrication™ software creates optimized toolpath and code for a variety of CNC machines, including punches, burners, lasers, waterjets, punch/plasma, and punch/laser combinations. Not only will SmartCAM Advanced Fabrication help you reduce scrap and improve your fabrication processes, but like all SmartCAM® applications, it is designed to help you reduce programming time and deliver your customer's parts quicker.

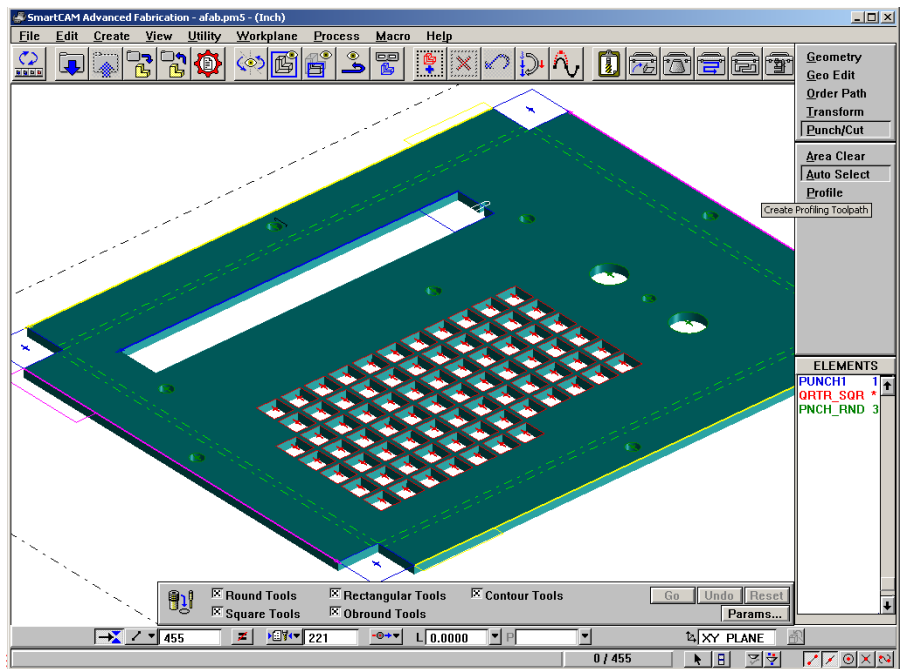
## Ease of Use

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

- Fast, flexible toolpath geometry.
- Better organize your data using Containers, Show/Hide, improved Layer functions and View Filters
- Auto-indexing support for an unlimited number of tools.
- Automated area clearance with spiral or zigzag routines.
- **Auto Tool Select** searches profiles for common fabrication shapes, then searches the job operation setup file, and automatically selects tools that fit the shapes. It then creates tool path for removing material from inside the profiles using the selected tools.
- The **Profile Modeling Tool** creates centerline tool path for a single cutting pass.
- Canned cycle support for bolt hole circles and grids at any angle.
- Automated folding and unfolding compensates for bend allowances and unfolds the part in a single step. (Because SmartCAM is a full 3-D system, you can modify geometry on the part before or after unfolding it.)
- Automatic flat pattern layouts for HVAC transition pieces.
- Toolpath optimization functions that will automatically find the most efficient tool motion.
- Automatic or interactive nesting, including subroutine support that saves material. (SmartCAM will tell you if your subroutines provide optimal toolpath, giving you the choice of using them or not.)



*SmartCAM Advanced Fabrication  
Optimized punch hits for power supply front panel*

## Eliminate Surprises

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

- SmartCAM's graphic model will show you how your part will be cut on your machine.
- Because you are working with a fabrication process model, and not just geometry, you can see how clamps, hold downs, trap doors, and material repositioning will affect the manufacturing process.
- Custom tool graphics let you create the tool shape you need to improve the accuracy of your hits.
- Dimensioning, report generation, and notes capabilities help with shop floor documentation.

## 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

SmartCAM Advanced Fabrication provides a number of fast, automatic job solutions, but enables you to have the final say on how an operation will be done. Almost everything about SmartCAM applications — from the user interface to the way code is output — can be customized to streamline your work. Powerful macro tools can record your input on one job and then be reused or modified. SmartCAM puts you, not the computer, in control.

- Job Library – tooling and machining parameters can be stored in a Job Library and easily retrieved for new jobs, saving time and also allowing proven practices and processes to be used consistently.

### 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 Fabrication 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 inquires, please email:  
[dealer.inquiries@smartcamcnc.com](mailto:dealer.inquiries@smartcamcnc.com))

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