



Overview

New in ProCAM II 2004

AutoCAD 2005 File Read

- New DXF and DWG translators read (import) drawings and solid models from other CAD systems that support DXF and DWG files up to AutoCAD 2005 and provide more control over which entities are imported.

IGES File Read

- The IGES translator reads (imports) IGES 5.3 files that include Manifold Solid B-Rep Object (MSBO) entities and the associated entity types.
- Increased speed for reading

Surface Machining

- Arc fitting for Adv. 3 Axis Rough, Flat Area and Z-Level results in:
 - Reduced NC code.
 - Smoother, more accurate toolpaths.
 - Higher feed rates, greater machining accuracy and extended NC machine tool life.
- Faster Advanced 3 Axis Cutting for all parts especially larger and more complex files.
- Pocket In –Core option for Adv. 3 Axis Roughing allows rough pocketing from the outside inward

User Interface / Usability

- Part information dialog box displays versions, dates, users, country ID, language, OS and CPU.
- Save As, Open and Insert dialog boxes display folder panel and most recently used folder list box for quicker navigation.
- Automatic part file compression reduces part file size and speeds up opening and saving files.
- Increased speed for Edit Color

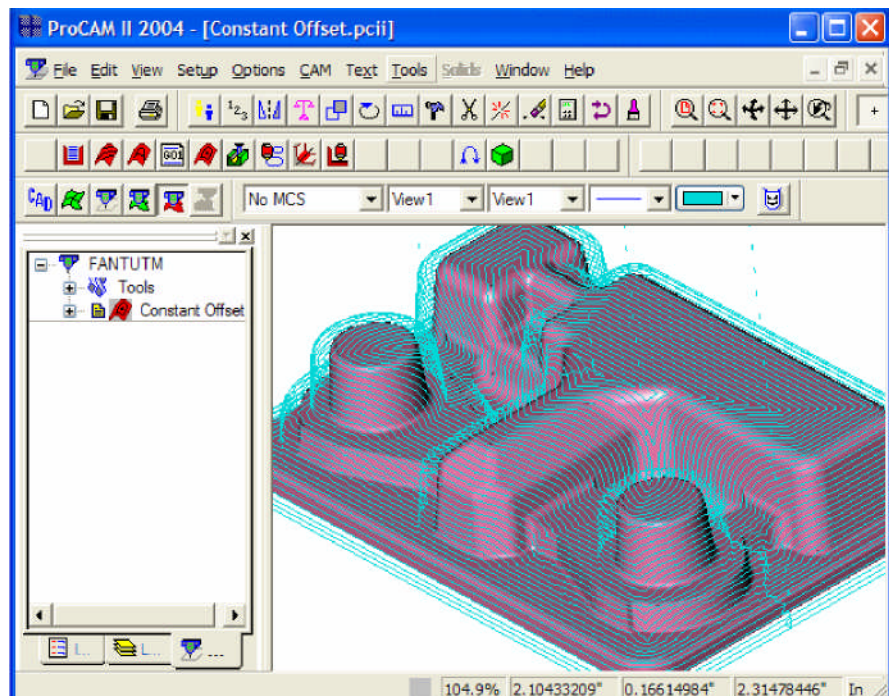
The ProCAM Solution

ProCAM's suite of products can increase productivity, ease overworked programming departments and generate more consistent and reliable G-code from programmer to programmer and from job to job.

ProCAM II provides flexibility for machining solid or wireframe models that have been created using CAD tools or imported using ProCAM's translators for popular file formats such as ACIS, IGES, Parasolid, DWG and DXF.

Ease of Use

Toolpath creation is intuitive with a full range of easy-to-use tools. Each CAM module has all the features you demand for cutting complex parts quickly and accurately while maximizing the potential of the machine tool and the machinist. With the Solids Machining option, ProCAM II becomes a state-of-the-art intelligent CAM solution using Automatic Feature Recognition coupled with Knowledge Based Machining technology to further automate the programming process.



ProCAM II is available in a variety of configurations, so you can purchase exactly what you need now and add to your system as your business grows.

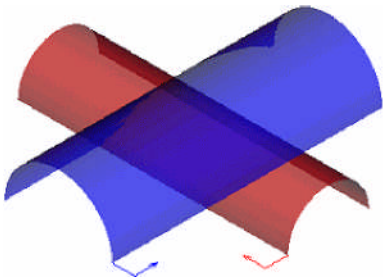
Quality NC Code Output with Easy Customization

The completely integrated post processor supports virtually any CNC machine tool. Posting options are configurable per operation. Subroutines are fully supported as well as fixture and work coordinate offsets. The quality NC code that is generated by ProCAM II can be optimized for your facility's machines and production methods with the Universal Post Generator (UPG). The easy-to-use graphical interface of the UPG is designed so users can quickly customize post processors to generate edit-free code for their machining environment.

2D/3D Modeling

ProCAM II includes 2D/3D wireframe and complex surface modeling.

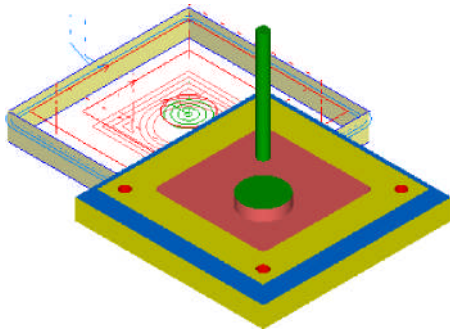
- Entities can be scaled, translated, mirrored, rotated, trimmed, segmented, filleted, chamfered, and extended.
- Multiple surface creation methods: swept, ruled, plane, offset, surface of revolution, four-curve (Coon's patch), three-curve, constant and variable radius fillet, complex surface and two-surface blend.
- Tools for easy manipulation of surfaces.
- Interfaces with Open GL graphics cards for interactively generating high speed, high quality surface shading. Dynamic pan, zoom and rotate shaded models.



2½ Axis Milling

ProCAM II machining cycles and easy-to-use tools generate optimized toolpaths for enhanced 2½ axis milling. Simulation, associative operations and integrated feeds/speeds tables further assist the programmer.

Cycles include pocketing, profile, drill plunge roughing, Z wall definition, free form cutting and drilling. Machining algorithms use the latest toolpath and gouge protection methods. Cutting cycles provide fast, error-free toolpaths using ball, flat end mill, taper, corner round, thread mill and hog nose tools.



Integrated Feed/Speed Library has modifiable database containing over 1.7 million feed/speed combinations representing over 1100 materials. Calculates feeds and speeds automatically.

Tombstone, Rotary/Tilt Table Support

- Multi-plane machining allows easy implementation of tombstone work.
- Subroutines; fixture, work coordinate, and work and sub coordinates offsets.
- Horizontal milling machine viewing option.

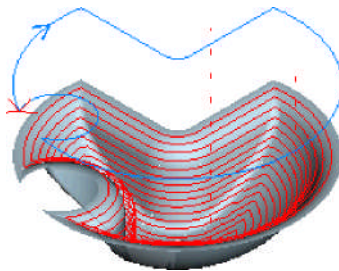
Surface Machining

To meet changing needs in the machining industry, TekSoft's Advanced 3 Axis cutting cycles have been developed for speed, accuracy and efficient memory usage. Simple and complex parts can be cut quickly and accurately with a high quality toolpath.

Selective toolpath controls provide options such as high speed machining, leads, links and filters for efficient multi-surface code generation. OpenGL, simulation, interactive picking and a modern user interface enhance programming.

ProCAM II offers two levels of Surface Machining.

- **3 Axis Milling Level I** includes Adv. 3 Axis Roughing, Slice, Z Level, and Pencil Mill cutting cycles.
- **3 Axis Milling Level II** includes Level I cycles plus Adv. Constant Offset, Curve Projection and Finish Flats cycles. Also includes rest machining support for all Adv. 3 Axis cycles.



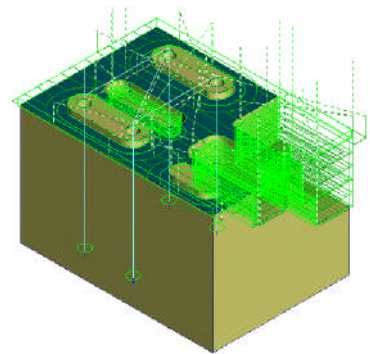
Additional Features and Tools

- Tree-based operations management including moving, copying, saving and inserting repetitive operations.
- Support for multi-plane machining allows easy implementation of tombstone work.
- Fast and fully integrated material cutting simulation uses a solid model to display the material removal process and compare work in process with the part model.
- Tool Library representing all the tools in your current inventory. Define tools only once, not at every turret change.

Solids Machining

ProCAM Solids is available in a variety of configurations.

- **2½ Axis Milling** includes automatic roughing, finishing, thread milling and single point (drilling, boring, reaming and tapping) cycles.
- **3 Axis Milling** handles several types of machining methods: complex multiple-axis machining, automatic Z-level roughing, and automatic finishing including planer, flowline, spiral, circular, and Z-level machining cycles.
- **2 and 4 Axis Turning** includes automatic roughing, finishing, threading, grooving and single point (drilling, boring, reaming, and tapping) cycles.



Minimum System Requirements

- Platform: Intel® Pentium® III or AMD Athlon™
- 256MB RAM (512MB recommended)
- 200MB free hard drive space
- 32MB OpenGL Graphics Card with True Color
- Resolution: 1024x768 (Small Fonts)
- CD-ROM Drive
- Windows 2000 or XP
- Microsoft Access 2000, 2002, 2003 (for Solids Machining)

For more information on how ProCAM can make your company more successful, call your local TekSoft distributor.

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