



## Solids Machining with TekSoft Machining Intelligence for Automation™

In today's machine shop environment, getting products to market faster, more efficiently and within budget is essential. To achieve this level of complex handsfree programming, TekSoft has developed Machining Intelligence for Automation. This suite of tools automates the generation of toolpath based on a customizable database. Previously available only in TekSoft's CAMWorks product, ProCAM II now incorporates these tools in the optional Solids Machining package to generate toolpath directly from the solid model.

### Automatic Feature Recognition

AFR takes the drudgery out of programming by identifying machinable features in the Parasolid® model. TekSoft's AFR analyzes the solid model geometry and creates prismatic mill features such as holes, slots, pockets, and bosses as well as turning features such as outside diameter, face, groove, and cutoffs. Mill pockets, slots and bosses can be identified with or without taper.

Non-standard features can be defined effortlessly using the Interactive Feature Recognition (IFR) wizard. This information is then passed to the database and used for operation generation.

### Technology Database

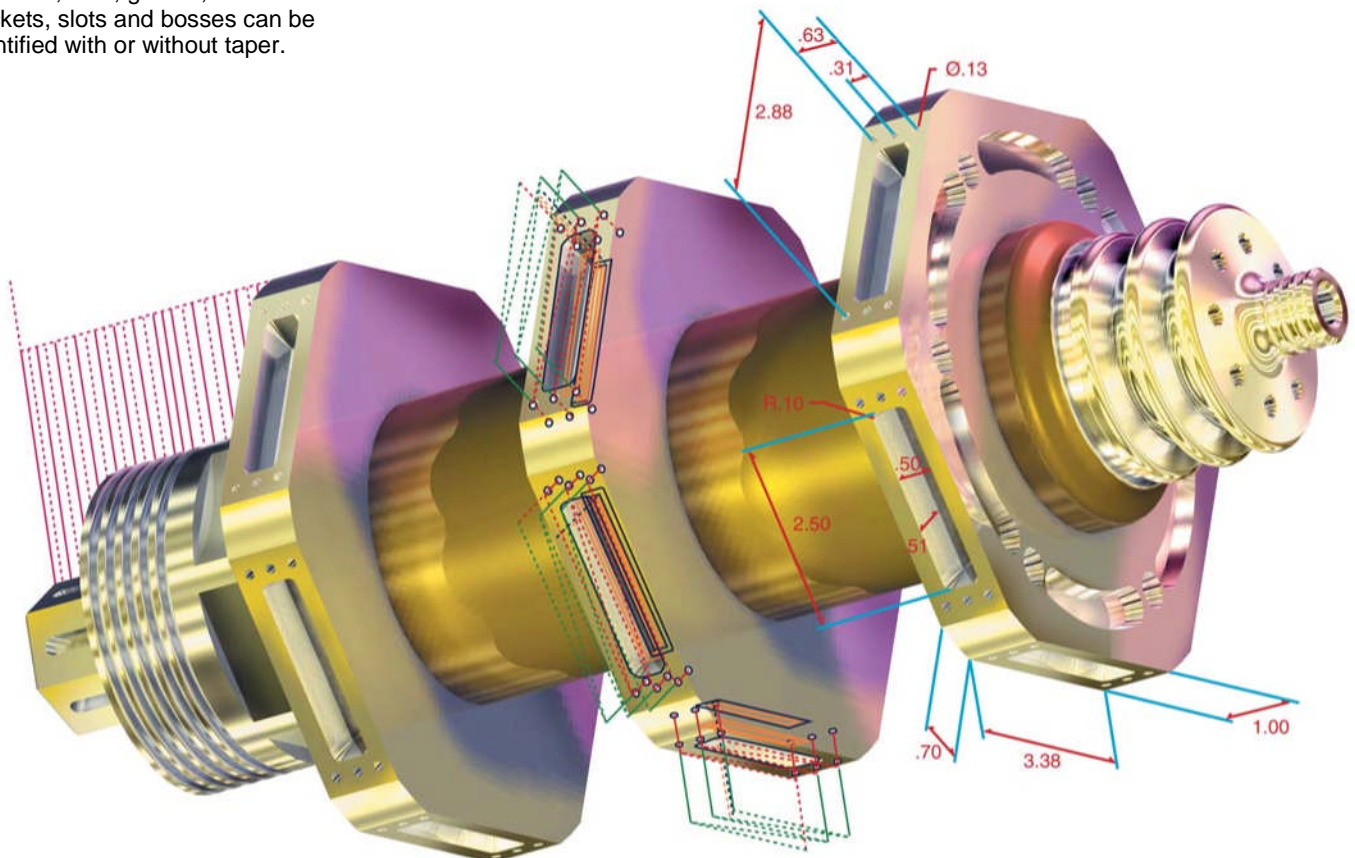
TekSoft's proprietary TechDB™, a Microsoft Access database, is the intelligence behind the machining automation. Using knowledge-based technology, tooling and machining parameters are associated with the features found by AFR and the appropriate machining operations are generated automatically. The toolpath is then calculated. To further enhance the automation process, the knowledgebased rules in the TechDB database are fully customizable to represent your current machining environment.

### Increased Productivity

The net result of this technology is increased productivity. Programmer training is faster. Repetitive programming tasks are automated easing overworked programming departments. Tooling and methodology are more consistent and reliable from programmer to programmer and from job to job.

### Choice of Machining Modules

Solids Machining is available in a choice of machining modules: 2½ Axis Mill, 3 Axis Mill and Turn. Each module provides an advanced collection of cutting strategies and timesaving features to help automate the machining process.



ProCAM II - [Fan Plate.pci]

File Edit View Setup Options CAM Test Tools Solids Window Help

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- Tools
- Drill Operation #2
- Profile Operation #3
- Lace Operation #4
- Pocket Operation #5
- Combo Drill
- Uv Operation #8
- Slice Operation #9
- Rough Operation #10
- Curve Cut Operation #11
- Topo Operation #12
- Free Form Operation #13

ProCAM II 2002 Mill 4-1-2002

-6.4910" -4.7938" 0.0000" In Out All

### Advanced Machining

A complete set of associative roughing and finishing cycles insures fast, accurate cutting of complex parts. Numerous strategies and enhanced toolpath controls in 2½, 3, 4 & 5 axis machining provide a variety of approaches for roughing, semi-finishing, and finishing. Here are just a few of the many new features and enhancements in ProCAM II.

- \* Multi-surface roughing enhancements include faster toolpath generation, spiral entry, fixed cut amount and scallop cut controls with a depth filter, hit flats, and machine to depth by area or by level.

Drill/Plunge Roughing with controls for step over, drill distance, allowances and automatic presentation of pre-drill locations.

Automated Surface drilling. Continuous machining of adjacent fillets using UV fillet cutting.

The multi-surface Slice cutting strategy now allows you to identify multiple contain and avoid areas to selectively machine within specified areas.

Toolpath is optimized to reduce unnecessary tool retracts and maximize tool staydown.

Tapered tools are supported for Pocket, Lace, Profile, Rough, Z-level finishing and Slice Planar cycles.

Standard series of translators including Parasolid.

High Speed Machining. Highspeed link support increases machining efficiency. Choose a dogleg, regular, or balloon link to define the method of transitioning between Slice cuts.

A spiral link option and lead-in/out strategies are available for Z-level cycles.

Operation filters for toolpath output and tool depth in Z-level and Roughing.

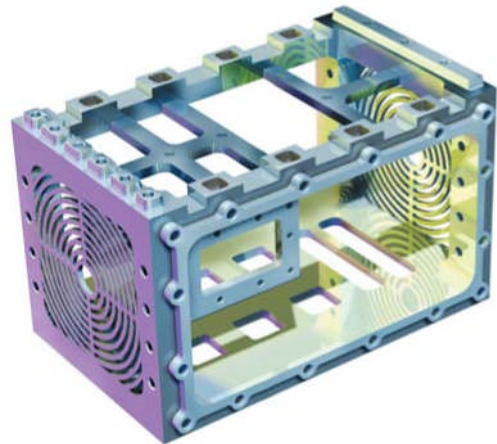
Support for multi-plane machining allows easy implementation of tombstone work.

Subroutines are fully supported as well as fixture and work coordinate offsets. Curve Cut and Freeform options to cut multiple depths in a single operation.

### Updated Interface

ProCAM's easy to learn, user-friendly interface has an updated look and feel. Redesigned to Microsoft Foundation Class (MFC) standards, ProCAM II provides the familiar functionality of other Microsoft compatible products such as dockable toolbars, drag and drop and the ability to customize the workplace. The new Part Manager, a Windows Explorer-style work area, makes it quick and easy to manage geometric information, layers, and operations. Also included are extensive right click menus and shortcut keys to zoom, rotate, pan, set layers and control operations.

ProCAM II supports the Optimized OpenGL™ graphics standard, resulting in the near photo quality display of complex images in real time. Display management is achieved through light positioning, reflection, diffusion, hidden line removal and translucency settings. OpenGL™ also provides enhanced viewing controls for dynamic zoom, pan, and rotate.



ProCAM II is sold and supported through a worldwide network of authorized distributors who share your knowledge of your industry and customer base. These highly trained professionals are dedicated to providing you with quality training and support to help you maintain that competitive edge.



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