



Solids Machining

Knowledge-Based Machining

TekSoft's proprietary TechDB™, a Microsoft Access database, is the intelligence behind the machining automation in ProCAM Solids. Using knowledge based machining technology, tooling, cutting conditions, and operation defaults are associated with the features found by AFR and the operations are generated automatically. The toolpath is then calculated.

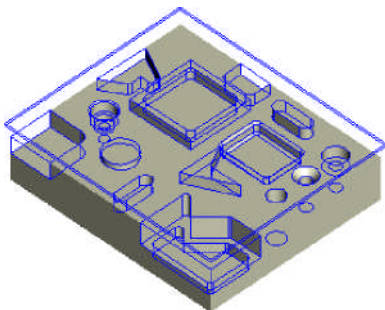
Technology Database

The Technology Database is shipped with data that is considered generally applicable to most machining environments. In order to take full advantage of ProCAM Solids, the user can modify this data and input additional knowledge that represents the user's expertise and the facility's capabilities. The machining information in the database is divided into these categories:

- Machine - "Virtual" machines for all the CNC machines in your facility and the associated controller and tool crib.
- Tools - The tool library can contain all the tools in your facility.
- Cutting Parameters - Information for calculating feed rates and spindle speeds, stock materials and tool materials.
- Feature and Operations - The machining sequences and operations for each combination of feature type, end condition, and size.

Automatic Feature Recognition

ProCAM Solids is a feature-based machining CAM system. To make feature-based machining even more powerful, ProCAM provides the ability to automatically recognize many two-dimensional features including tapers.



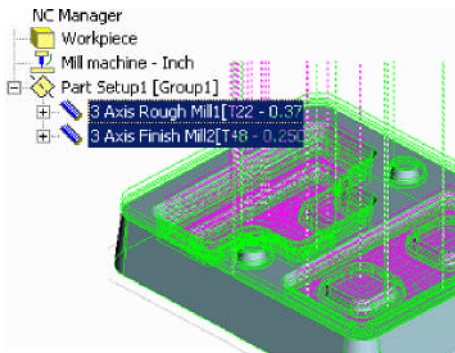
Interactive Feature Wizards

ProCAM Solids provides Interactive Feature wizards for defining features that are not recognized automatically or features that are not recognized the way you want to machine them. Similar 2½ and 3 Axis Mill features can be created quickly using the Copy command. Existing features can be modified easily.

Machining Operations

After machinable features have been defined, the user can generate an Operation Plan to machine the features on the part. Machining operations include roughing, finishing, drilling, etc. Operations are associated to machinable features. The Operation tree provides an outline view of the operations. Before generating toolpaths, operations can be customized including:

- Suppress, delete and rename
- Combine similar operations
- Change machining parameters
- Add machinable features
- Change the machining order



Additional Features and Tools

ProCAM provides numerous integrated features and visual tools to improve productivity including:

- Drag and drop reordering of operations before generating toolpaths.
- Graphical toolpath generation display.
- Material removal simulation can reduce the need for dry runs at the machine tool.

- Step Thru Toolpath command includes options for viewing toolpath movements.
- Reorder Tool command assigns tool numbers sequentially for manufacturing environments that require sequential tool order.
- Completely integrated post processor supports virtually any CNC machine tool.
- Universal Post Generator can be used to customize G-code output.

Solids Machining Modules

ProCAM Solids 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. 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, tapping)

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

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