

PROCAM™

2D Turning

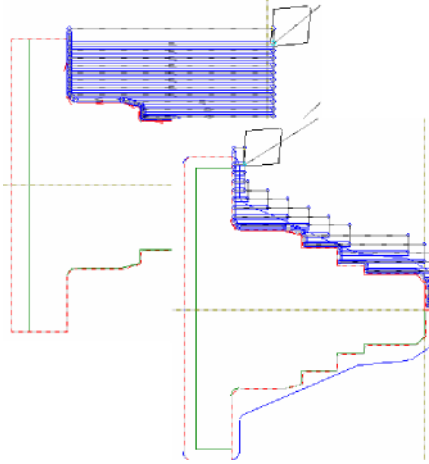
Turning Cycles

Turning cycles include turning, facing, grooving, boring, threading and cut off cycles.

- Rough Turning/Facing Cycle inserts a roughing tool path to remove all the material specified by the part boundary and the stock boundary.
- Groove Cycle cuts a groove of almost any shape. Once the rough material has been removed, ProCAM automatically runs a finish grooving path to remove all material based on the user-defined X and Z Allowance.
- Drill Cycle inserts a drilling or tapping cycle at the centerline of the part.
- Thread Cycle inserts a threading tool path to the depth of the ending diameter within an area defined by the X and Z start position (plus the leadin) to the X and Z end position.
- Profile Cycle inserts a finish contouring tool path.
- Cutoff Cycle cuts off bar stock without using a boundary or CAD entities.
- Miscellaneous operations insert Linear and Arc toolpaths and Rapids.
- Insert interference checking.
- Tool nose radius compensation.
- Definable Z and X offsets.
- Simple boundary selection to identify entities to be machined and determine the path and direction of the cutter.
- Toolpath creation is intuitive with a full range of easy-to-use tools.
- Allows automatic updating of parts quickly and easily after changes to

Stock Definition

- Define stock shape as bar stock or irregular to represent castings and forgings.
- Automatic stock update after each cycle. Subsequent operations use updated stock to generate tool paths without wasted movements.



Rough Turning Toolpaths Generated with Stock Defined as Bar Stock and as an Irregular Shape

Tools

- Supports standard inserts and special inserts and holders.
- ISO and ANSI tool type definition.
- Tool files: Tools defined for a part can be saved in tool files and used for multiple jobs. Use tool files to eliminate having to continually redefine tools. The turret size determines the number of tools that can be defined in a tool file.

Additional Features

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

- Cut Simulation provides a simulation of the Lathe cutter paths in the order they will be machined and post processed.
- Integrated Feed/Speed Library has modifiable database containing over 1.7 million feed/speed combinations representing over 1100 materials. ProCAM calculates feeds & speeds automatically.
- Integrated post processor supports virtually any CNC machine tool.
- Universal Post Generator can be used to customize G-code output.
- Post processor can be customized to support Bar Puller and Tailstock cycles.
- Support for multi-axis lathe on a single machine including:
 - Top turret and bottom turret
 - Main spindle and sub spindle
 - Live C under main spindle and sub spindle

Minimum System Requirements

- 450 Mhz Intel® Pentium® II
- 128MB RAM
- 200MB free hard drive space
- 2-button mouse
- Standard Graphics Card
- Resolution: 1024x768 (Small Fonts)
- CD-ROM drive (for installation)
- Windows 2000 or XP

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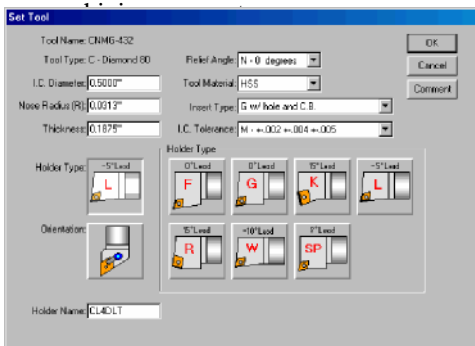
For more information on how ProCAM can make your company more successful, call your local TekSoft Distributor.

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Tool Definition with Holder Type and Orientation Options

Tool Libraries

The Tool Library allows you to create a database that represents all the tools in your current inventory.

- Tool libraries can be created without regard to machine type or turret size.
- Allows you to define tools only once, not at every turret change.
- Easily drag and drop tools from the Tool Library to the Turret.
- Create multiple tool libraries and add/delete tools.