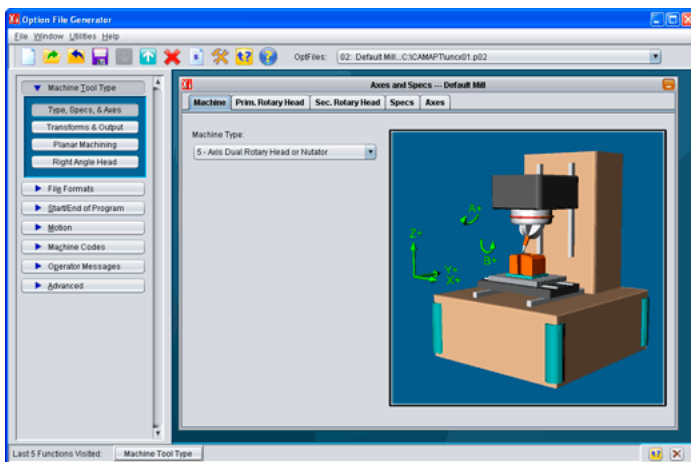


# NC G-Post

## Generalized Postprocessor

The Austin N.C., Inc. Generalized Postprocessor (NC G-Post) software enables a user to create postprocessors for all NC and CNC machines, regardless of type. This includes the capability to create postprocessors for simple 2-axis machines through complex multi-axis machining centers and lathes of all types, even those with live tooling and mill turn capabilities. Once created, the postprocessor generates machine-ready output that can be transferred directly to the machine tool.

Austin N.C., Inc. NC G-Post software has a JAVA based graphical user interface that makes it easier than ever for users to create and modify their own postprocessors. There is no need to learn a programming language to generate a postprocessor. For users who need to perform very complex manipulations of the CL file data, a powerful user macro feature called Factory Interface Language (FIL) is provided with the system.



## Graphical User Interface

NC G-Post's option file generator has a mouse-driven, JAVA Based, graphical user interface (GUI). The user is guided through making the proper decisions for creating the postprocessor for a specific machine tool by NC G-Post's graphical representations and easy menu selections.

## Factory Interface Language (FIL)

The Austin N.C., Inc. NC G-Post includes a powerful but easy-to-use macro language. The FIL language allows a user with modest programming experience to adapt the postprocessor to handle even the most complex data manipulation requirements. With NC G-Post and FIL, you can be confident that you will be able to handle future post processing requirements that cannot be foreseen.

## Support Services

Users can license the software and create their own postprocessors, or Austin N.C., Inc. can supply customized postprocessors. Each of Austin N.C.'s technical staff members has more than ten years experience in the development of postprocessors for the NC/CNC machine tool industry. This experience ensures the development of your postprocessor will be expeditious and accurate! On-site consulting for your postprocessor needs is also available. The Austin N.C., Inc. support staff is available for on-site analysis, system implementation, postprocessor development and custom programming tailored to your specifications. Austin N.C.'s Continuous Support Program (CSP) is available for NC customers who wish to receive support via telephone or email and regular software updates/enhancements.

## Training Services

Austin N.C., Inc. offers regularly scheduled, hands-on training classes at our offices in Austin, Texas. We can also conduct training at the customer's site. All Austin N.C., Inc. training courses are designed to include the proper mixture of lecture and exercises. This, hands-on-experience, coupled with carefully prepared visual aids, provides an excellent atmosphere for learning. Classes are limited in the number of attendees to ensure each individual has the optimum learning experience. Experienced instructors provide realistic exercises and solutions for the topic being presented.

## Compatibility

Austin N.C., Inc. NC G-Post is available on most popular platforms including Windows NT/2000/XP/Vista/7/8/8.1, IBM AIX, SUN Solaris, HP-UX and SGI Irix. NC G-Post can also post process CL data from most CAD/CAM systems and APT and is supplied (OEM) by PTC and Surfware as their post processor solution.

### Basic NC G-Post Features

- Interactive, on-line, help screens
- Fully backwards compatible with existing NC G-Posts
- Vocabulary can be adapted to the CAD/CAM system
- User-definable vocabulary and functions
- Compatible with ANSI and ISO standards
- Facilitates family-of-parts programming
- Interfaces available for all popular CAD/CAM systems

### Machine Tool Types Supported

- 2 and 4-axis lathes (merging or non-merging)
- 2 through 5-axis mills (including nutating heads)
- Multiple combinations of mill/turn machines
- Punch Presses
- Lasers
- 2 and 4-axis (tilt wire) EDM machines

### Output Capabilities

- Full inch/metric switchable
- Axis limit checking
- Maximum tape footage control with file splitting
- Absolute/incremental output
- Address aliasing, Address ordering
- Right angle head
- Planar machining

### Output Formatting

- Full control of all output characters
- Full control of format (# of digits, decimal places, etc.)

### Factory Interface Language

- Add, delete or modify CL file data
- Alter postprocessor output
- Add or modify vocabulary
- Read from or write to external files
- Call other applications
- Full CL file control (positioning, rewind, etc.)
- Full suite of logical controls (do loops, case, if/else)

### NC Output Structure

- Block start and increment control
- Alignment/option/block delete control
- Full output control for all post functions
- Full output control for beginning and end of data
- Full tool change sequence control

### Preparatory and Auxiliary Functions

- Each function individually specified and user accessible
- Multiple code output control
- System supplied with standard default settings

### Linear, Rapid and Circular Motion

- Full motion analysis control
- User-specified maximum departure
- User-specified minimum distance for rapid
- Selectable true radial feedrate for arcs
- Selectable model states
- Exceeding user-specified maximum radius forces linear mode
- Center, offset or radial circular interpolation
- User-specified degrees per block or arc quadrant selectable
- Curve fitting

### Tool Control

- Full multi-axis tool change positioning
- Full cutter compensation analysis
- Full offset selection control

