



technical data

GNC CONTROL SOFTWARE

FLEXIBILITY AND PERFORMANCE

The whole GNC Software Package has been designed by Amtech with flexibility being paramount, to design a software that is totally compatible within your business. The operating language can be customised such as Liner, Rapid or Arc and even G or M codes to suit your operator. Even commands that aren't required can be removed for ease of use. This user friendly software has a free format edit facility without having to stick to any rules or go through any insert menus. Options such as cut, copy, paste find and replace, make editing very easy. File saving and loading are also Windows standard as well as the floating panels to aid execution. You can control upto 16 positional axis, in any combination of Stepper, AC or DC Servo. A built in PLC which can monitor digital and analogue inputs upto 100 times per second and can also control digital and analog outputs. The digital inputs and outputs can be selected in multiples of 8 and the analog inputs and outputs

can be up to 16 each.

DXF and HPGL Interface

Because the speed of part program generation is one of the most important parts of an efficient control system, the GNC system comes with DXF or HPGL interface program converter. This allows CAD system to interface directly to GNC System 16. You can produce a DXF or HPGL on your CAD system and then pass it to GNC for immediate conversion, nothing could be simpler. The CAD program could even be on the same computer as GNC.

CAD/CAM Interface

The GNC Software is fully supported by many of the leading CAD/CAM software packages. Applications include turning, milling, engraving, wire-cutting and waterjet cutting. So overall a software package designed with you in mind.

OPTIONS

- Password Protection Feature
- Error and Operator Data Logging
- Tangential Axis
- Surface Probing
- Network Link
- Modem Link

APPLICATIONS

- Motion control and positioning
- System Automation
- Process Control
- Robotics
- Automatic Welding Systems
- Profile cutting machines
- Woodwork Routing Machine
- Engraving Machines
- Drilling Machines
- Laser cutting machines
- Water jet cutting machines
- Glue laying machines
- Automatic stitching machines
- Lathes & Mills

GNC Lite standard features

- Fully Flexible user interface
- Windows and PC compatible
- Continuous motion
- Automatic slowdown for corners and radius
- Backup around profile
- Realtime animated graphics icon.
- Axis control Servo AC, DC or Stepper (Open or Closed Loop) Axis Control (1-4)
- Circular Interpolation (First two axis only)
- Linear Interpolation (Upto 4 axis)
- Helical Interpolation (First two and any other)
- Full screen edit facilities
- Program memory upto 100,000 blocks
- Multi program facilities
- Parameter Programming
- Upto 16 User on screen variables
- Upto 99 internal user variables
- Built in PLC
- Nested Subroutines
- Repeat & Conditional Repeat loops
- Floating Datum
- Automatic Absolute Datum Check
- Tool length compensation
- Multi Tool Option
- Tool, Path Graphics
- Operator Prompts
- Goto & Conditional Goto labels
- Unlimited digital inputs
- Unlimited digital outputs
- Analog Inputs (0-16)
- Analog Outputs (0-16)

extra system 16 features

- Upto 16 axis control
- Linear interpolation upto 16 axis
- Tool Radius Compensation
- DXF Interface
- HPGL Interface
- CAM Interface



Amtech Limited, Unit 2, Silverbirch,
Mylord Crescent, Camperdown Industrial Estate,
Newcastle upon Tyne, NE12 5UJ, England.
Tel: 0191 268 2022 Fax: 0191 268 2092.
If you are outside the UK Tel: +44 191 268 2022
or Fax: +44 191 268 2092
e-mail: sales@amtechltd.co.uk
website: www.amtechltd.co.uk