



OmniTurn CNC Control

Extremely Reliable
Toolpath Graphic Verification
Unlimited Program Storage
Full Word Processor Program Editor
Uses Industry Standard G Codes
PC Based Control Technology
Lowest Maintenance Cost in the Industry



Servo update time:.001 second ♦ Servo loop gain: 4"/min/mv ♦ Uses standard EIA G codes: ♦ G00, G01, G02, G03, 004, G10, G33, G34, G35, G36, G40, G41 ,G42, G70, G71, G73, G74, G75, G76, G77, G78, G81, G90, G91, G96, G97, M00, M01, M02, M03,M04,M05, M08/M09, M12/M13, M30, M97, M98, M99 ♦ On screen parts counter: counts up or down ♦ 9 Mbyte program storage (Approx. 9000 programs) ♦ Tool Offsets can be saved with program: ♦ 32 tool offsets/program; 32 secondary offsets/program; 32 tool nose radii/program ♦ Full screen text editor ♦ Solid State Hard Drive for CNC and primary program storage ♦ Storage of unlimited number of programs via additional floppy disks Joy stick for movement in Jog mode for setup ♦ Jog speeds: 100 ipm, 10 ipm, 1 ipm ♦ Jog increments: .00005" / .001" / .01" / .1" / 1" ♦ Feed rate over ride: 10% to 100% ♦ Spindle speed over ride: 0-120% ♦ Program Input: 1.44mb Floppy, Keyboard, RS-232, Network ♦ Diameter or Radius Programming ♦ Standard off-line programming software

OMNITURN

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Your Dealer Is:

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OmniTurn CNC Control Specifications

GENERAL SPECIFICATIONS

Simultaneous 2 axes moves: X & Z
9" CRT display
Operator station
Industrial Hard Drive
Full screen text editor
Tool nose radius compensation
Auto corner chamfering & radiusing
Program verification
Tool path graphics
Decimal point programming
Combined use of absolute/incremental
Inch or metric programming
Radius or Diameter programming
Program storage: 9000 plus floppy disk backup
RS-232 interface
Automatic mode
-looping, sub-routines
-program run
-single block operation
-continuous mode
-Optional block delete
-block search to
-tool offset correction
-Secondary offset correction (taper correction)
-program editor
-spindle override on/off & 0-150%
-editor lock

Automatic mode (continued)
-Disk operations
-delete programs
-rename programs
-duplicate system or program disk
-remote connections via RS-232
Constant surface speed control
Tool offsets: 32 *per program*
Secondary offsets: 32 *per program*
Sub Routines: 10 *per program*
Parts counter
Count-down counter for bar feed work
Least increment: .00005"/.001mm
Work shift offsets
NO BATTERY backup necessary
No air pulled through control for cooling
Jog mode with joy stick
-continuous modes: 1, 10, & 100"/min.
-incremental:.00005", .001", .01", .1", 1"
Threading- Inch/Metric, OD/ID,
-Tapered, Multi start,
-Angle in feed, single pass
MDI mode
M12/M13 collet control
M08/M09 coolant control
M03/M04/M05 spindle control
M19 C axis spindle control (optional)
M25/M26 defined by user

CHARACTERISTICS

Rapid travel: 300 ipm
Accel to 300 ipm in .06 sec
Feed rates:.00005" per rev to 450 ipm
Thrust: 500# cont., 750# intermittent
Servo update time: .001 second
Servo gain: 4"/min/mV
Arc sphericity: +/- .00005"

OPTIONAL FEATURES

Add'l I/O interface \$795. Useful for:
-parts catcher
-automatic loader
-live tooling
-bar feeds
-automatic door closer
-end of cycle light
-tailstock
-spindle Brake
Modem for remote access
C axis control: spindle indexing, helical milling
Ethernet cards for network connections
Vision system interface
Removable hard drive