

**MAXNC**  
**4122 "A" West Venus Way**  
**Chandler, AZ. 85226**  
**Ph: (480) 940-9414**  
**Fax: (480) 940-2384**

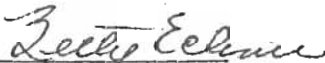
Dear Customer,

Enclosed please find the catalogue and price list you requested.

**Thank you so much for your interest in our MAXNC CNC Milling Machines,  
Components, Accessories and Software.**

Should you require any further assistance please feel free to contact us again, either by phone or fax. Our telephone and fax number is listed above.

Best regards,

  
Betty Echeverri  
Vice-President



4122-A W. Venus Way, Chandler, AZ 85226

Ph. (480)-940-9414

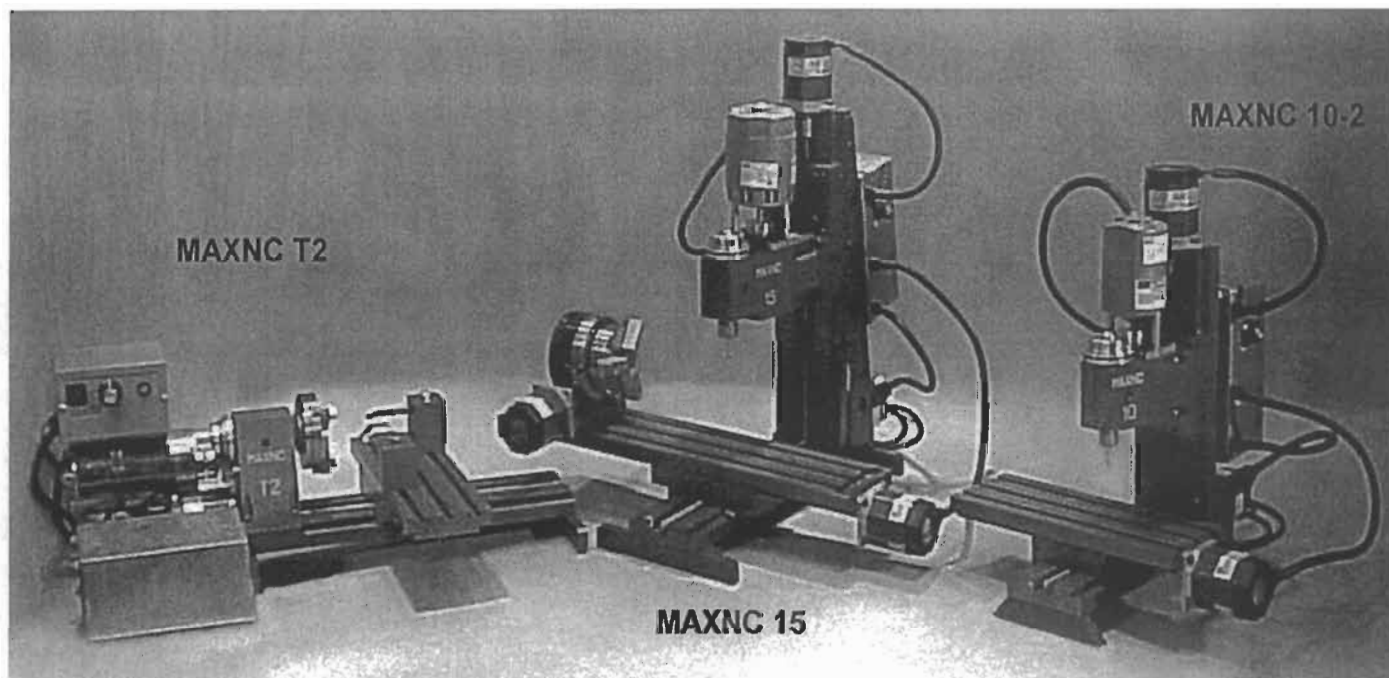
Fax (480) -940-2384

Order toll free 1-(888)-327-9371

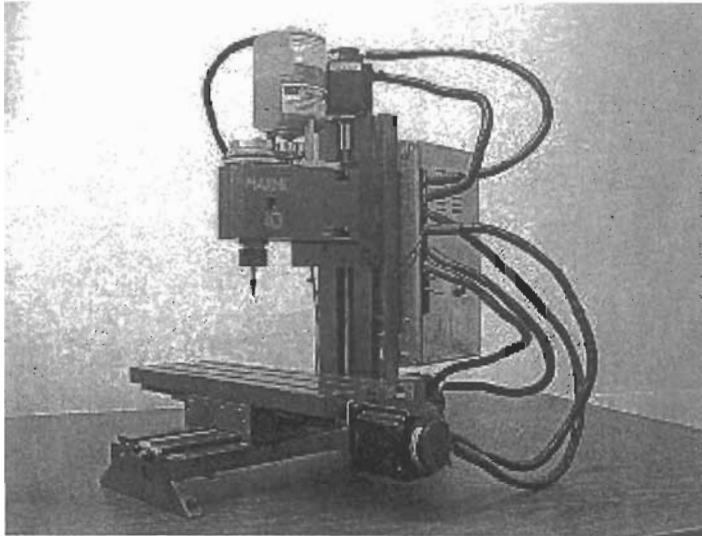
Website: <http://www.maxnc.com>

## CNC PRODUCTS CATALOG

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# MAXNC 10 CL



## A CLOSED LOOP SERVO CONTROLLED 3 AND 4 AXES DESKTOP MILL

The MAXNC 10 CL is a closed loop version of the MAXNC 10 machine but using the MAXNC new CL2 motion system for control. The motors are the same size physically as the MAXNC 10 open loop machine but capable of much more power and speed (about 8 times more) due to the feedback. This new controller runs 4 axes from a single parallel port from any PC 66 mega Hertz or faster (486, Pentium, AMDK, etc.) from DOS or from WINDOWS. The control reads the encoders at a rate of over 60,000 times a second and the feed-back is analyzed by the software. Based on the position of the encoders, the outputs to the motors are advanced, retarded or modified as needed. The speed at which the software operates also allows the control of the spindle motor speed from the CNC program. The servo motors used in the CL system are of step configuration to obtain very fast acceleration and deceleration rates, important in continuous contouring operations. Machine operates at up to 60 inches per minute with the standard 20 threads per inch Anti-Backlash BSA lead screws.

The machine comes equipped with combination HOME and LIMIT switches, a socket for the 3D digitizer and a socket for the M8 command (12 V. for coolant etc.).

### HARDWARE FEATURES:

• 8" X Travel • 5" Y Travel • 6" Z Travel • 4" wide dovetails • 11.9" long x 4" wide table • heavy duty spindle with 15 deg. taper for collets. • 1/10 hp AC/DC, 8,000 max RPM. Spindle motor (1/5, 10,000 RPM optional). • Up to 50 in/min rapid and feed rates.

### CONTROL FEATURES:

• Servo controller driven by the MAXNC CL2 software with the following features: • "G" & "M" code programming • 0.00025" resolution • Linear interpolation • Circular interpolation • Helical interpolation • Backlash compensation • Keyboard jog mode • Automatic cycle • Line by line cycle • Tool length and tool radius compensation table • Spindle motor on and off • Spindle speed control from program • Screen update and acceleration/deceleration inhibit (G64) for in-interrupted contouring, and more.

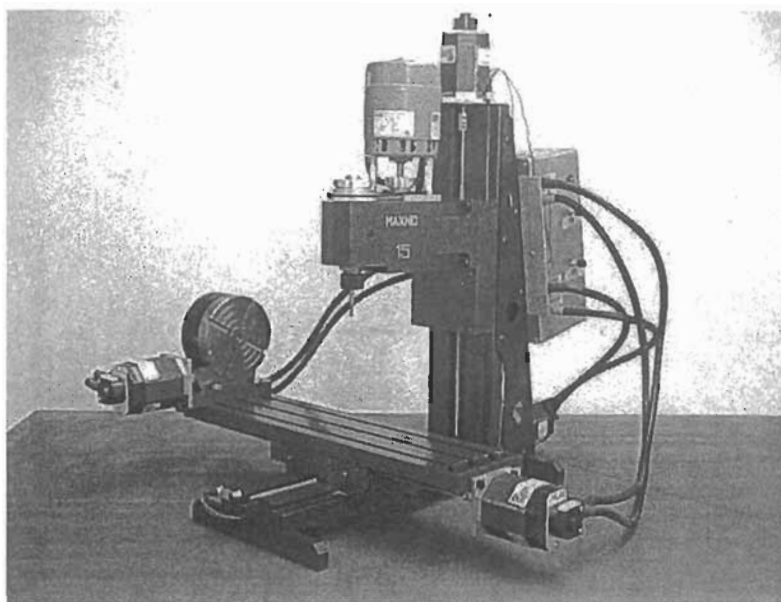
Includes software package with a mini CAM system for automatic NC program creation from CAD (DXF files).

A 3d digitizing probe and software is available which includes a teach mode and a screen plot of the object being digitized.

An optional 4" diameter rotary table and drive motor is also available to make it a full 4 axis system.

P/N 22200.....	MAXNC 10 CL.....	\$2,245.00
P/N 22260.....	4th AXIS ROTARY TABLE.....	\$ 495.00
P/N 22230.....	3D DIGITIZER.....	\$ 325.00

COMPUTER REQUIREMENTS: PC computer 66 M/hertz or faster processor, CLEAN, BASIC configuration with no other programs running in the background. Standard **bidirectional** parallel port is required. Dos 5.0 or higher. Windows is not required. 8 m/b of RAM memory is recommended.



## MAXNC 15 CL

### A CLOSED LOOP SERVO CONTROLLED 3 AND 4 AXES DESKTOP MILL

The MAXNC 15 CL2 is a closed loop version of the MAXNC 15 stepper machine but using the MAXNC new CL2 motion system for control. This new controller run 4 axes from a single parallel port from any PC, 66 mega Hertz or faster (486, Pentium, AMDK, etc.) The control reads the encoders at a rate of over 60,000 times a second and the feed-back is analyzed by the software. Based on the position of the encoders, the outputs to the motors are advanced, retarded or modified as needed. The speed at which the software operates also allows the control of the spindle motor speed from the CNC program. The servo motors used in the CL2 systems are of step configuration to obtain very fast acceleration and deceleration rates, important in continuous contouring operations. Machine operates at up to 60 inches per minute with the standard 20 threads per inch screws.

The machine comes equipped with combination HOME and LIMIT switches and a socket for the 3D digitizer.

#### HARDWARE FEATURES:

- 10" or 12" X Travel • 8" Y Travel ( 7" from spindle C/L to Z axis column) • 9" Z Travel • 4" wide dovetails with 6" of support • 16" or 18" long x 4" wide table • heavy duty spindle with 15 deg. taper for collets. • 1/5 hp AC/DC, 10,000 max RPM. Spindle motor. • Up to 45 in/min rapid and feed rates.

#### CONTROL FEATURES:

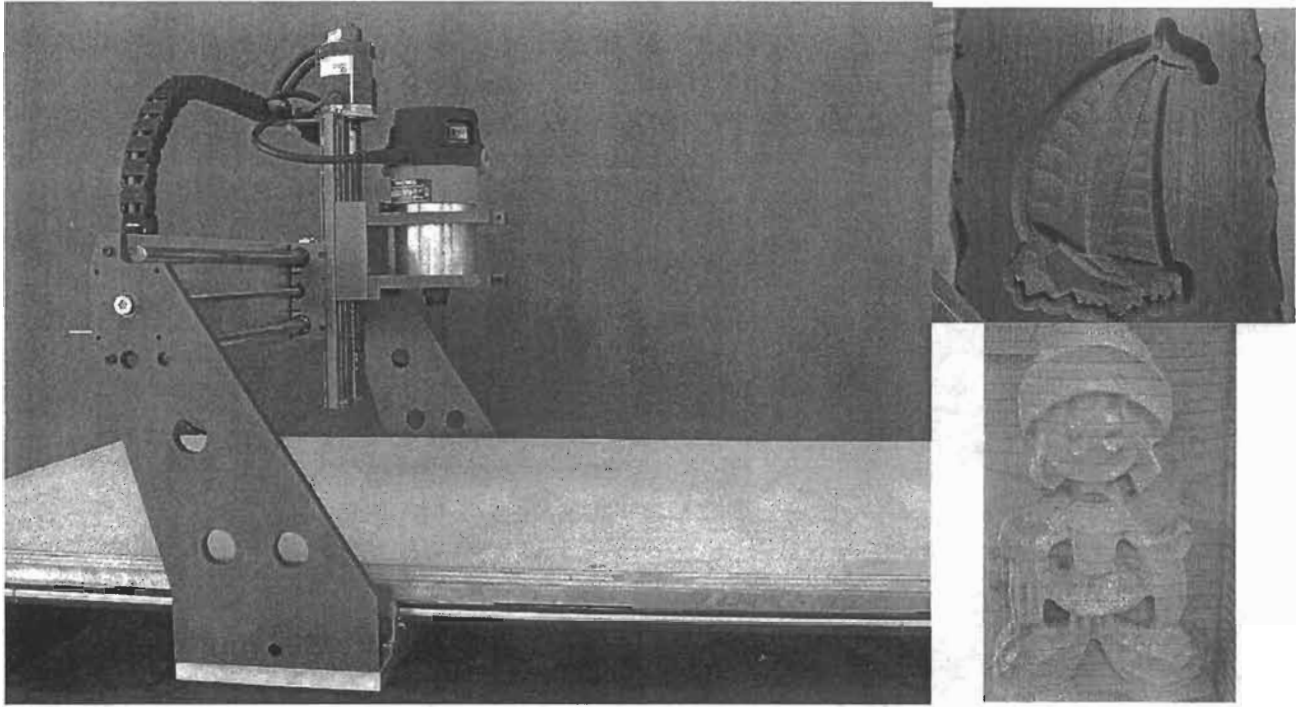
- Servo controller driven by the MAXNC CL2 software with the following features: • "G" & "M" code programming • 0.00025" resolution • Linear interpolation • Circular interpolation • Helical interpolation • Backlash compensation • Keyboard jog mode • Automatic cycle • Line by line cycle • Tool length and tool radius compensation table • Spindle motor on and off • Spindle speed control from program • Screen update and acceleration/deceleration inhibit (G64) for in-interrupted contouring, and more. Includes software package with a mini CAM system for automatic NC program creation from CAD (DXF files).

A 3d digitizing probe and software is available which includes a teach mode and a screen plot of the object being digitized.

An optional 4" diameter rotary table and drive motor is also available to make it a full 4 axis system.

P/N 22000.....16" X SLIDE---10" TRAVEL	MAXNC 15 CL2.....	\$3,275.00
P/N 22100.....18" X SLIDE---12" TRAVEL	MAXNC 15 CL2.....	\$3,375.00
P/N 22130.....3D DIGITIZER .....		\$ 325.00
P/N 22260.....4 <sup>TH</sup> AXIS ROTARY TABLE .....		\$ 495.00

**COMPUTER REQUIRMENTS:** PC computer 66 M/hertz or faster INTEL or AMDK processor, CLEAN, BASIC configuration with no other programs running in the background. Standard bidirectional parallel port is required. Dos 5.0 or higher. If run from Windows all programs will close when the driving program (MAX.EXE) is started. Windows is not required. 8 m/b of RAM memory is recommended.



## MAXPATH 42 ROUTER

The MAXPATH 42 is a PC controlled CNC router table with full 3d capabilities, built on a solid frame of aluminum tooling plate, with the X axis riding on precision ball rails while the Y and Z axis ride on dovetails. The CNC control is a CLOSED LOOP servo system, powering 2.3 Amp. motors for all axes and capable of travel feeds of over 240 inches per minute. The table is equipped with limit switches in all directions.

The router is supplied with a PORTER CABLE 1-1/2 HP router motor that includes 2 collets, 1/2 " and 1/4" Dia's. The router motor can be removed to mount other attachments.

MAXPATH 42 is shipped completely assembled to customers in the U.S.

P/N 22800	..... MAXPATH 42.....	\$ 5,250.00 + S/H
P/N 22810	.....DIGITIZER.....	\$ 330.00 + S/H

### Hardware specifications:

Table size: 48" X 24"

Y travel: 22"

Spindle: Porter Cable 1-1/2 hp router

Gap under Y slide: 6"

Z travel: 6"

X travel: 41"

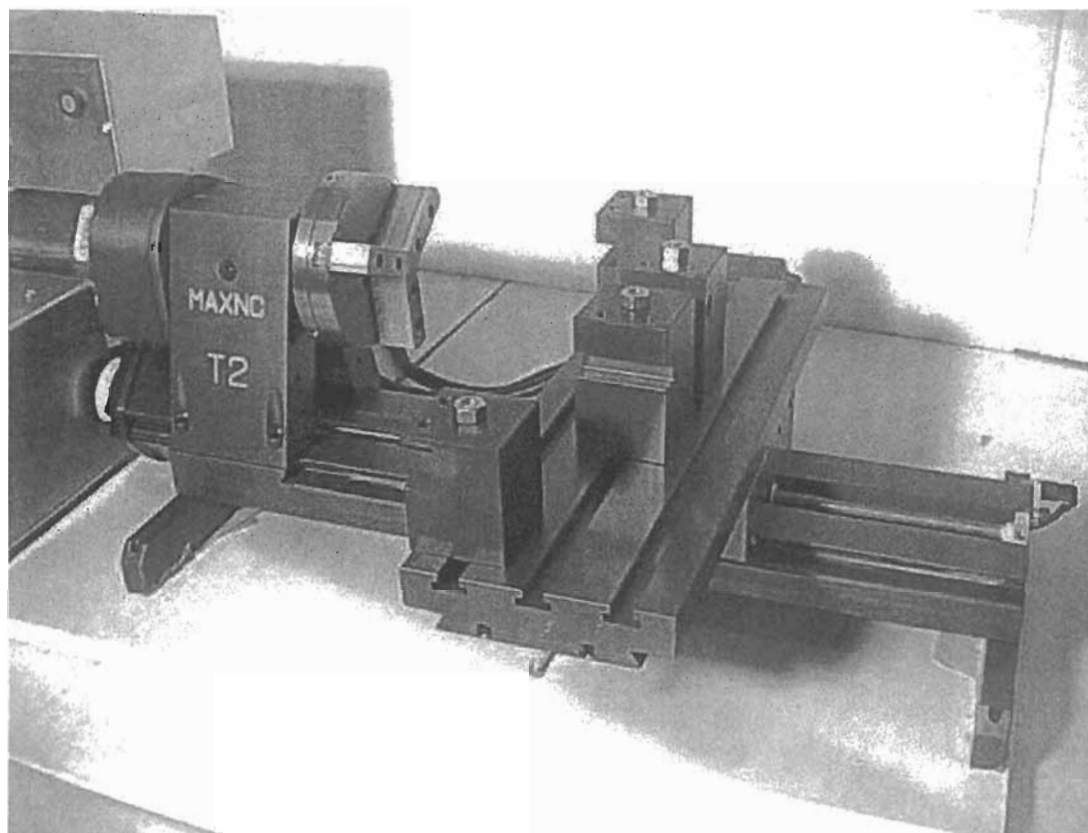
Max feed: 240 IPM Aprox.

### CONTROL FEATURES:

Closed Loop Servo controller  
"G" & "M" code programming  
Linear interpolation  
Helical interpolation  
Keyboard jog mode  
Line by line cycle

MAXNC Router software:  
0.001" resolution  
Circular interpolation  
Backlash compensation  
Automatic cycle  
Tool length and tool radius compensation  
table

Screen update and acceleration/deceleration inhibit (G64) for continuous contouring, and more.



## MAXNC T2 CL CNC CHUCKER LATHE

Controlled from the printer port of your PC computer. Standard lathe 'G' code programming with simultaneous X and Z axis interpolation and full contouring capabilities. Large cross slide table and 20 tool offsets allows turning with multiple tool programs. X and Z axes are driven with 135 oz/in servo motors and the spindle is driven by a powerful DC motor. Program control of spindle on, off, forward and reverse by 'M' codes. Spindle speed is controlled from the program by use of the 'S' word. Spindle is equipped with a 100 line encoder for synchronization with the axes for threading. G33 and G76 codes are available for automatic threading. Includes a 3 Jaw chuck, 4 tool posts, 2 tool bits and Software.

The 'T2CL' software includes a lathe 'G' code generator from DXF files and a tool path screen plot verification program and sample NC programs.

P/N 22702 .....\$ 2,295.00

### Specifications:

- Swing over bed 6.8" Dia.
- Swing over cross slide 3.3" Dia.
- X axis travel 8.0"
- Z axis travel 9.2"
- Spindle hole Dia. 0.34"
- Spindle speeds 0 to 2500 RPM.
- Spindle power ½ hp.

## CNC MACHINING CENTER MAXNC-10

Open Loop

Bringing the power of modern CNC machining to model engineers, machinists, hobbyist, inventors and students. Controlled from the printer port of any PC compatible computer. Build in the U. S. A. by MAXNC. **This is not a retrofit.**

### HARDWARE FEATURES:

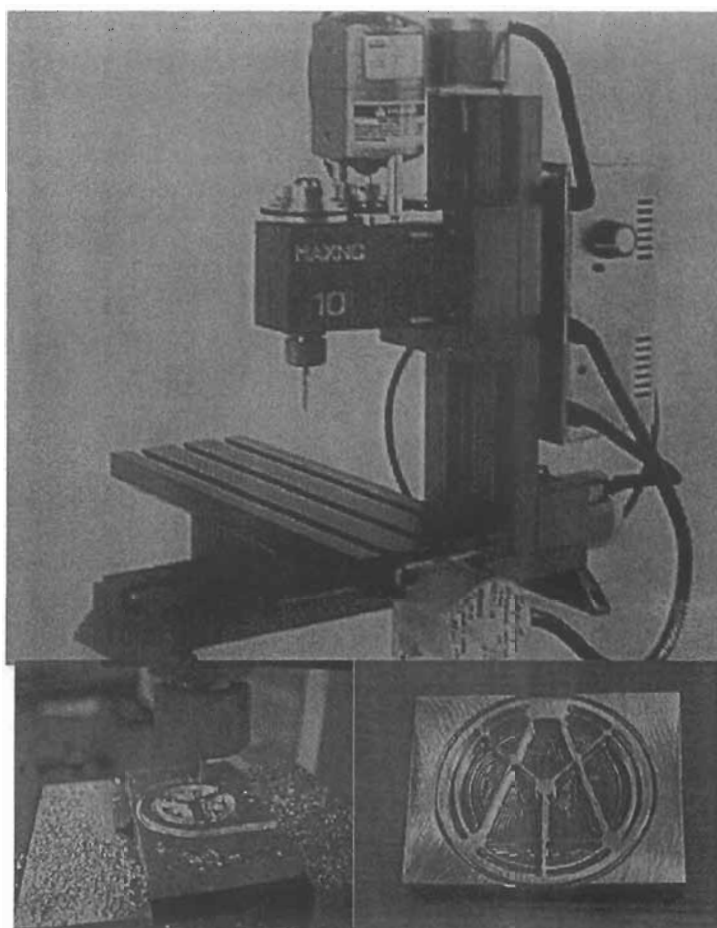
• 8" X Travel • 5" Y Travel • 6" Z Travel • 4" wide dovetails • 11.9" long x 4" wide table • Heavy duty spindle.

### CONTROL FEATURES:

• "G" & "M" code programming • 0.00012" resolution • Linear interpolation • Circular interpolation • Helical interpolation • Backlash compensation • Keyboard jog mode • Automatic cycle • Step cycle • Tool length Compensation table • Scaling • Screen plot of program and more. Includes the MAXNC software package with a mini CAM system for automatic NC program creation from CAD. Optional probe for 3d digitizing. Optional 4th axis.

**\$1,295.00 + S/H**

P/N 20200



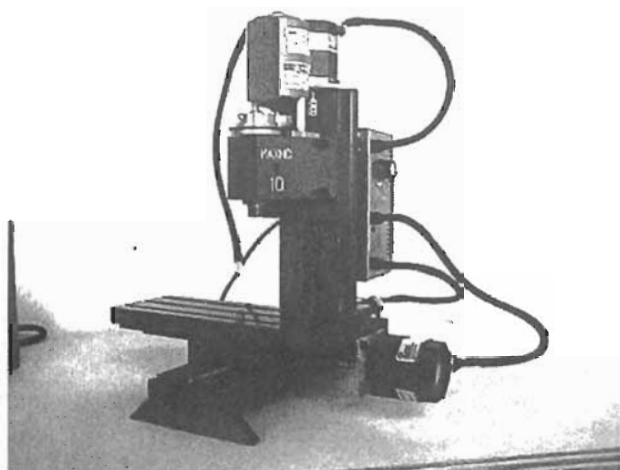
## MAXNC 10-2

Open Loop

All the features of the MAXNC 10 but with 145 oz/in Pacific Scientific stepping motors instead of the 70 oz/in motors used in the standard machine. Double the power and speed while maintaining good control without losing steps.

**\$1,645.00 + S/H**

P/N 20400



**MAXNC** 

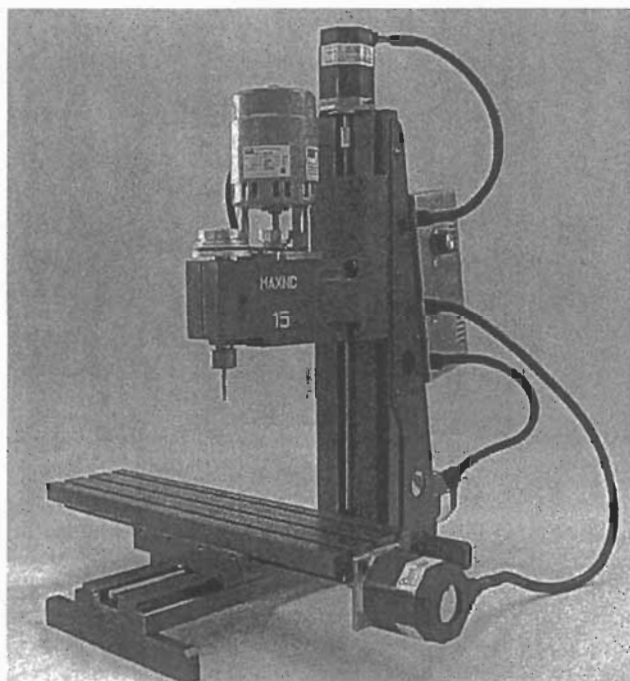
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**ORDER TOLL FREE 1-(888)-327-9371**





## MAXNC 15 Open Loop



A larger version of the Maxnc10-2 Desktop CNC milling machine with 145 oz/in stepping motors. The Maxnc 15 comes equipped with the BSA zero backlash lead screws and the 1/5 hp spindle motor as standard features.

### HARDWARE FEATURES:

- 10" X Travel • 7" Y Travel • 9" Z Travel • 4" wide dovetails • 16" long x 4" wide table • Heavy duty spindle with 15 deg. taper for collets.

### CONTROL FEATURES:

- "G" & "M" code programming • 0.00012" resolution • Linear interpolation • Circular interpolation • Helical interpolation • Backlash compensation • Keyboard jog mode • Automatic cycle • Line by line cycle • Tool length and tool radius compensation table • Scaling • Screen plot of program and more.

Includes the MAXNC DLX software package with a mini CAM system for automatic NC program creation from CAD (DXF files). Optional probe for 3d digitizing. Optional 4th axis.

P/N 21000.....16" X SLIDE.---10" TRAVEL..... **\$2,495.00**

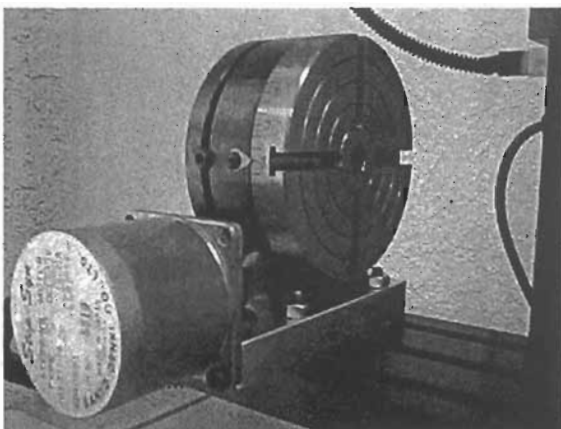
P/N 21000.....18" X SLIDE.---12" TRAVEL..... **\$2,595.00**



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Order toll free 1-(888)-327-9371 Website: <http://www.maxnc.com>



## ROTARY 4th AXIS



The 4th. axis Adapter for the MAXNC CNC Machining Centers expands the capabilities of the Machine with the ability to rotate the part being machined, under program control, in full interpolation with the other three axes.

The adapter includes a 4.0" diameter rotary table, which is normally mounted with the axis of rotation perpendicular to the spindle of the machine and parallel to the X axis, "T" nuts, clamps, screws and a chuck adapter.

For the Open Loop machines the 4th. axis is furnished with its own control box that includes its own power supply. It requires a second parallel port in your computer. As a bonus, the control provides connections for the spindle motor so that spindle start and stop can be controlled from the program.

The Closed Loop (10CL and 15CL) machines are already 4<sup>th</sup> axis ready, so only the rotary table is provided. Also no second parallel port is needed.

The resolution of the system is 0.0125 of one degree per step.

The software includes utilities to convert DXF files from flat drawings, into rotary axis NC programs, and several sample programs.



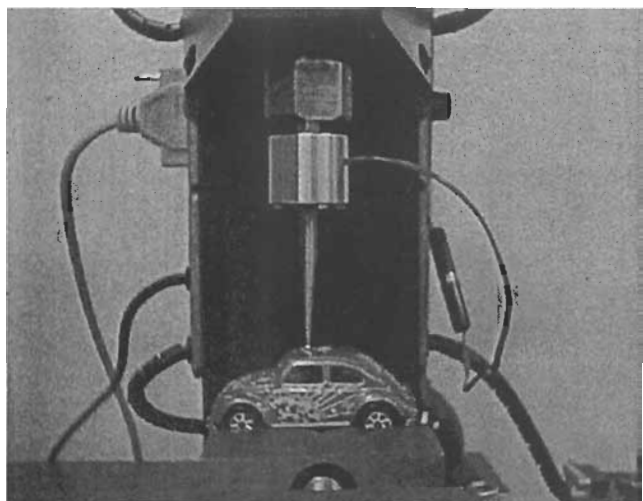
4th axis with 70 oz/in motor  
P/N 20240 ..... \$ 535.00

4th axis with 145 oz/in motor (for MAXNC 10-2)  
P/N 20260 ..... \$ 615.00

4th axis Closed Loop (for MAXNC 10CL and 15CL)  
P/N 22260 ..... \$ 495.00

Optional 3 Jaw Chuck:  
P/N 20250 ..... \$ 50.00

**Complex machining that can be done with the 4th axis includes impellers, cams, turbine blades, engraving around cylinders and more.**

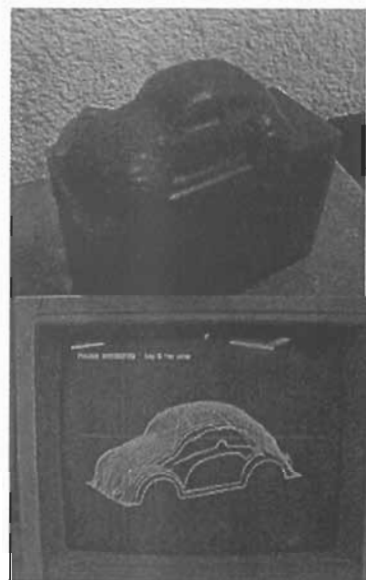


### 3D DIGITIZING PROBE and Software.

**An exclusive from MAXNC.**

Automatically digitize three dimensional objects and creates G code NC programs for later machining. Programs can be used in a MAXNC mill or most any CNC milling machine. Files can be imported into your CAD software (with DXF conversion) for modifications then converted back

to CNC for machining. Requires at least one of the Maxnc motion software programs or a Maxnc mill to run. Includes the Digitizing Probe and the Software. The software includes the Digitizing program, utilities to convert 3D NC programs to DXF, 3D DXF to NC, an AUTOCAD 3D prototype DWG file, sample 3D DXF files and more.

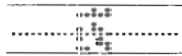


P/N 20130 Open Loop .....\$ 225.00

P/N 22230 Closed Loop .....\$ 325.00

Shipping and Handling add 7% of the total. Arizona residents add 7.25% sales tax.  
Order by Mail or by Phone. Payment with Check, M.C., Visa, Master Card or American Express.

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Website: <http://www.maxnc.com>

## MOTION CONTROL PRODUCTS

**MAXPRO 3 AXIS MOTION CONTROL SOFTWARE:** Controls 3 stepping motors from the printer port of a compatible PC. Emulates a CNC controller. Reads standard NC programs ("G" & "M" code). Software includes a mini CAM system to create NC programs from CAD DXF files. Also included is a screen plot tool path verification program. A DOS format allows the use of older PC's (8086's, 286's, 386's, 486's, Pentiums etc.). Features:

Linear interpolation. Circular interpolation. Helical interpolation. Backlash compensation. Manual control from the keyboard (Jog) Continuous and single block modes. Program search. Limit switch sensing for all axes. Probe & Home input signal sensing. Offset tool length compensation table. Changeable port addresses. 2D and 3D screen plot of NC program. 4 extra outputs to a second printer port by the use of "M" codes.

Available with standard output (phase output) for the Maxnc drivers, or with Step & Direction signals to drive other stepping motor drivers.

P/N 20020 .....Standard version.....\$ 125.00

P/N 20025.....Step & Direction version.....\$ 125.00

**MAXNC DLX 4 AXES MOTION CONTROL SOFTWARE:** All the features of MAXPRO software plus the following:

Full 4 axes interpolation. Offset tool radius and tool length compensation table for use with G41, G42, and G43 codes.

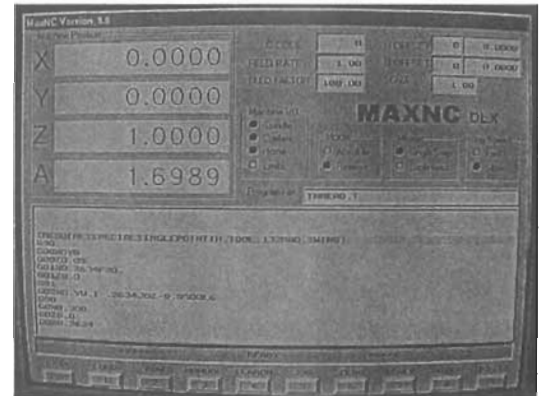
22 'G' codes. 12 'M' codes.

'M99' repeat code with a 'P' word for number of repeats.

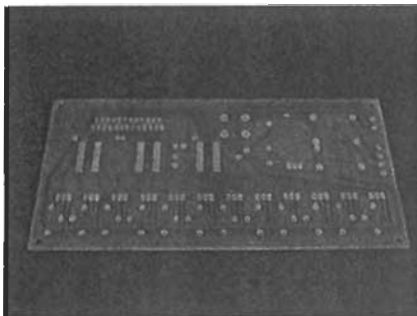
Available with standard output for the Maxnc drivers or with Step & Direction signals to drive other stepping motor drivers.

P/N 20600 .....Standard (phase output) version.....\$ 225.00

P/N 20605.....Step & Direction version.....\$ 225.00



**NOTE:** Standard version (P/N 20600) requires a second parallel port for operation of the 4th axis and the 'M' code outputs. The Step & Direction version (P/N 20605) operate all inputs and outputs on a single parallel port, including the 4th. axis and the 'M' codes.



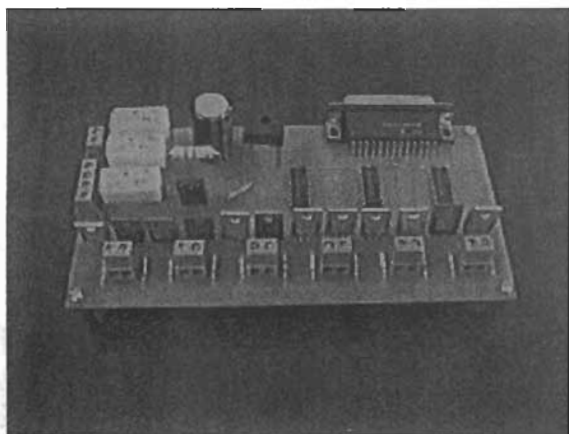
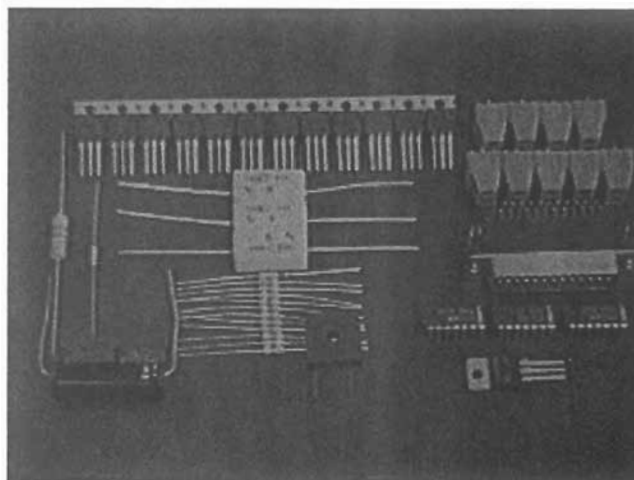
**# 8 DRIVER CIRCUIT BOARD** A circuit board to drive 3 stepping motors from a 25 pin connector. Includes circuitry for the power supply. Used with the Maxnc software. Include schematics.

P/N 20030 .....\$ 27.00

Order toll free 1-(888)-3279371

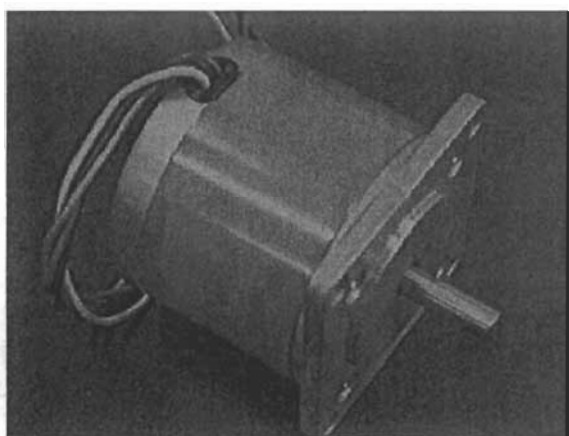
**# 8 ELECTRONIC GROUP** All the components to be soldered to the #8 circuit board: rectifier (1), capacitor (1), 10 ohm power resistors (3), 1k ohm resistors (12), 500 ohm resistor (1) 2200 ohm resistor (1), 5 v voltage regulator (1), IC's (3), TIP power transistors (12), block connectors (9), "D" male connector (1).

P/N 20040 .....\$ 44.00



**# 8 ASSEMBLED BOARD** Soldered and tested circuit board to power 3 unipolar 24 volts stepping motors of up to 1 amp per coil. Includes P/N 20030 and P/N 20040.

P/N 20050.....\$ 85.00



each

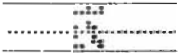
**STEPPING MOTORS** 70 oz/in holding torque, 200 full steps per rev. (400 half steps) high quality, unipolar, ball bearing motors rated at 24 volts and 0.2 amps. Size is 2.23" Dia. x 2.0" long (Nema 23). Shaft size is 0.250" Dia.

P/N 20060 .....\$ 35.00  
each

**MOTOR & LEAD SCREW ASSY.:** Same motor fitted to an 11" long 1/4-20 lead screw. Includes coupling and backlash nut. To be used with slides

P/N 20065 .....\$ 50.00

**MAXNC**

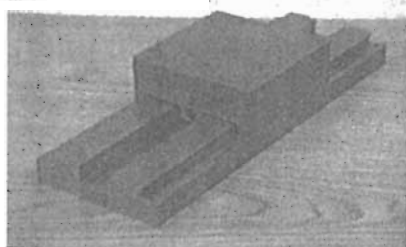
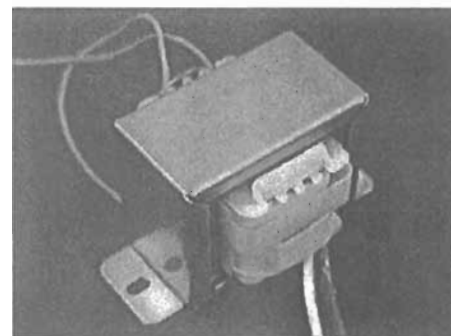


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**Order toll free 1-(888)-327-9371**

**TRANSFORMER:** 110 volts input, 24 volts 1 amp output. Needed for the Maxnc circuit board for power.

P/N 20070 .....\$ 15.00



**SINGLE SLIDES:** Precision hard anodized aluminum dovetail slides for your motion control applications. Fits Nema 23 motors (item 2060 above) dovetail in sliding block is adjustable to compensate for wear. Size 11.9" long x 4" wide x 2.2 high. Travel is 8".

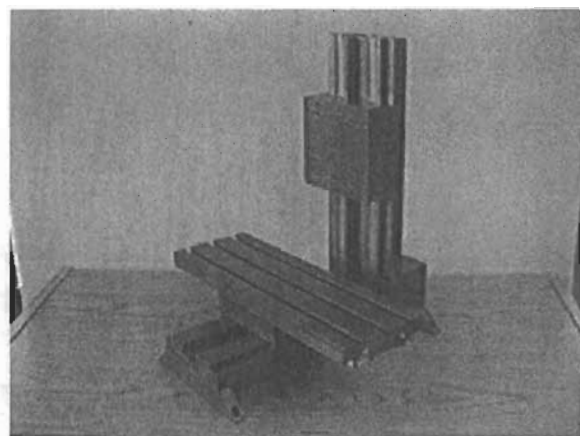
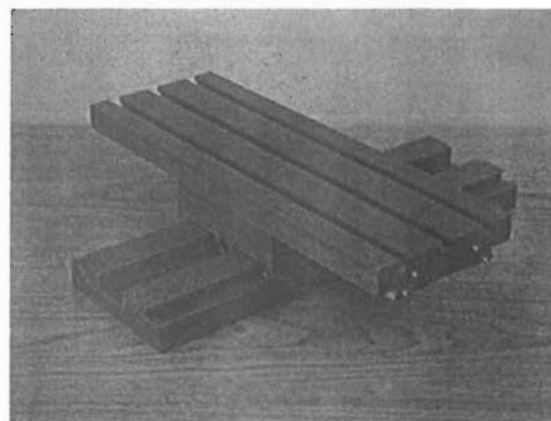
P/N 20090 .....12"SLIDES.....\$ 130.00

P/N 21030.....16"SLIDES.....\$ 220.00

**X-Y SLIDES:** Precision hard anodized aluminum dovetail slides for your motion control applications. Fit Nema 23 motors (item 2060 above). Dovetails in sliding block are adjustable to compensate for wear. Table size is 11.9" x 4" wide. Height is 2.68". X travel is 8". Y travel is 8". 3 'T' slots are provided on the table for clamping.

P/N 20100 .....12"SLIDES.....\$ 232.00

P/N 21040.....16"SLIDES.....\$ 375.00

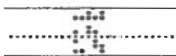


**X-Y-Z SLIDES:** Precision hard anodized aluminum dovetail slides for your 3 axes motion control applications. Fit Nema 23 motors (item 2060 above). Dovetails are adjustable to compensate for wear. Table size is 11.9" x 4" wide. Height is 15". X travel is 8". Y travel is 5". Z travel is 6". 3 'T' slots are provided on the table for clamping.

P/N 20110 .....12"SLIDES.....\$ 360.00

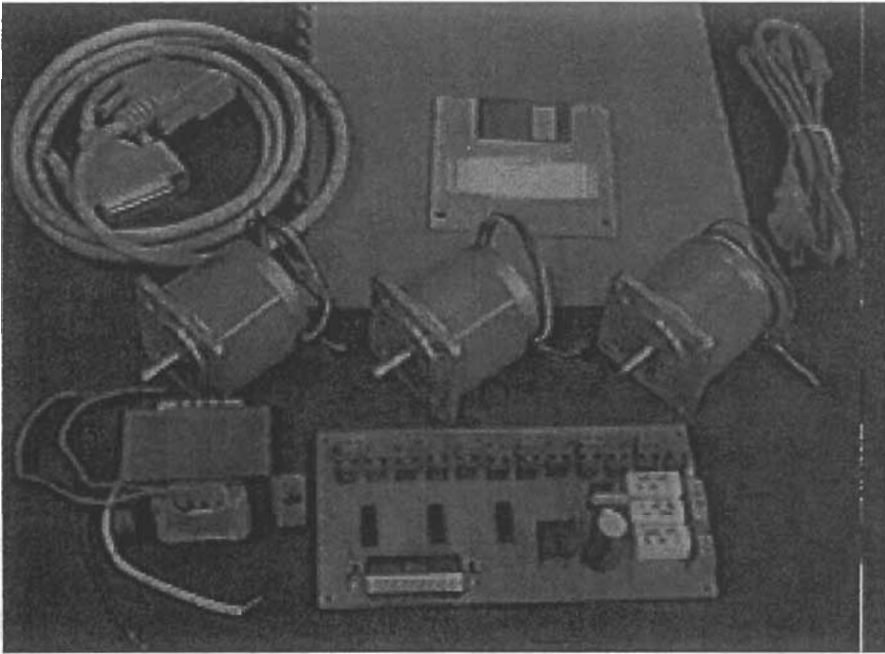
P/N 21050.....16"SLIDES.....\$ 621.00

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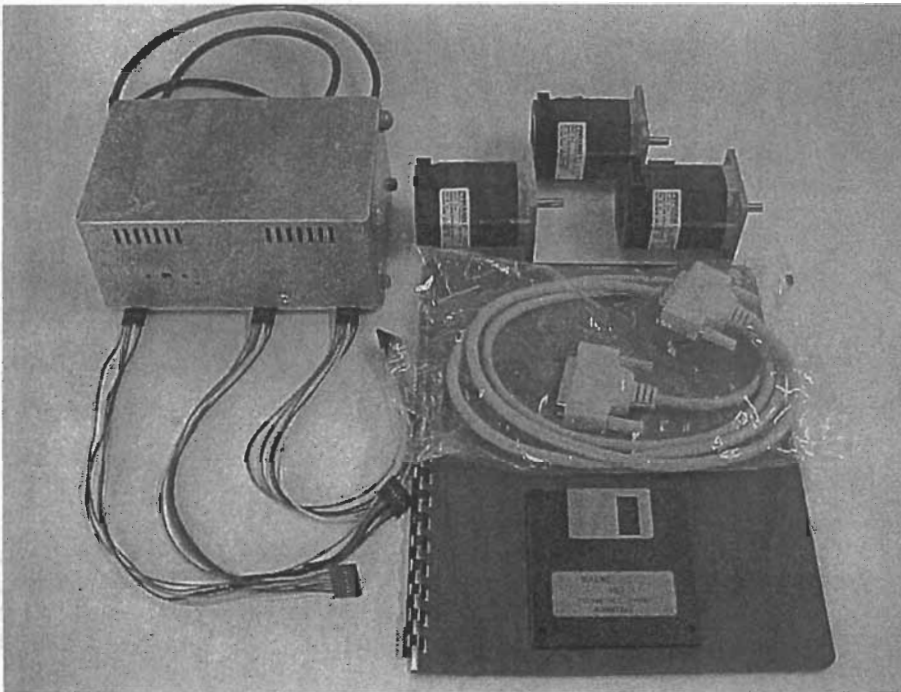
### COMPLETE 3 AXIS OPEN LOOP MOTION CONTROL

**SYSTEM:** All the components needed for 3 axis motion in a single package.

Includes:

3 stepping motors of 70 oz/in holding torque, transformer, soldered & tested Maxnc 8 circuit board, cables, and the Maxpro software

P/N 20120 .....\$  
295.00



### 145 oz/in 3 AXIS OPEN LOOP MOTION CONTROL SYSTEMS:

A complete 3 axis system with 145 oz/in. NEMA 23 motors, completely assembled and tested. Enclosed in a cast aluminum control box, includes cables and the Maxnc DLX software

P/N 20450.....\$  
645.00

**MAXNC**



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Order toll free 1-(888)-327-9371





**COMPLETE CLOSE LOOP 3 AND 4 AXIS MOTION CONTROL SYSTEMS WITH 'NEMA 23'  
SINGLE STACK MOTORS  
(As used in the MAXNC 10 CL machine)**

Powerful motion system set up to be controlled from a standard parallel port from a PC computer, using the included MAXNC CL2 software for "G" code format or using custom software from the user. Motors are capable of over 1,000 RPM with 1.8 Deg. Shaft resolution.

Includes: Controller with power supply; 3 or 4 motors with encoders; Motor and encoder cables; Parallel port cable; CL2 driver software for PC computers with manual.

CL2 software features: • "G" & "M" code programming • Linear interpolation • Circular interpolation • Helical interpolation • Backlash compensation • Keyboard jog mode • Automatic cycle • Line by line cycle • Tool length and tool radius compensation table • Spindle motor on and off • Spindle speed control from program • Screen update and acceleration/deceleration inhibit (G64) for un-interrupted contouring, and more.

If the controller is to be used with other driver software, it requires only 2 output lines per motor from the parallel port, in a quadrature mode, and 2 input lines total for feedback. 4 axes can be driven with a single port.

**P/N 22155.... 3 axis Motion Control System (single stack motors).....\$ 875.00**

**P/N 22160 ... 4 axis Motion Control System (single stack motors).....\$ 975.00**

**P/N 22156.... 3 axis Retrofit Kit for Maxnc 10 or 15 (includes limit switches)....\$ 895.00**

**P/N 22161 ... 4 axis Retrofit Kit for Maxnc 10 or 15 (includes limit switches)....\$ 995.00**



	A	B	C	D
1	P/N		DESCRIPTION	PRICE
2		Revised 3/18/05		
3			MAXNC 15	
4	21100	9/10/2004	MAXNC 15 2005 /W 18" X SLIDE(12" TRAVEL) open loop	\$2,395.00
5	22000		MAXNC 15 CL (Closed Loop Servo)	\$3,275.00
6	22100		MAXNC 15 CL (Closed Loop Servo) /W 18"X SLIDE(12" TRAVEL)	\$3,375.00
7				
8				
9			MAXNC T-2	
10				
11	22702		MAXNC T-2CL W/ Threading (Closed Loop Servo)	\$2,295.00
12				
13				
14			MAXNC-10	
15	20200	9/10/2004	MAXNC-10 2005 OL(cntrl speed of spindle mtr thru software 16" min chper dr)	\$1,295.00
16	22200		MAXNC-10CL (Closed Loop Servo)	\$2,245.00
17				
18				
19			MAXNC-5	
20	20600		MAXNC-5 (OPEN LOOP)	\$895.00
21				
22				
23			MAXPATH 42	
24				
25	22800		ROUTER (CNC ROUTER TABLE)	\$5,250.00
26				
27				
28			PARTS	
29			4TH AXIS SHAFT	\$30.00
30	20063		BACKLASH NUT (BRASS) EACH	\$12.00
31	20156		BELT - SPINDLE MAXNC 10 & 10-2	\$11.00
32	20751		BELT - SPINDLE MAXNC-15	\$12.50
33	20752		BELT - SPINDLE T-2 LATHE	\$15.00
34	20815		BLANK TOOL HOLDER	\$25.00
35	20069		BRACKETS FOR DREMEL TOOL	\$40.00
36	22024		BRACKETS MAXNC-10CL Control Box	\$25.00
37	22023		BRACKETS MAXNC-15CL Control Box	\$25.00
38	20067		BSA NUT	\$45.00
39	22077		BSA NUT ROUTER (Y OR Z AXIS)	\$45.00
40	22078		BSA NUT ROUTER (X AXIS)	\$98.00
41	20089		COUPLING SPRING LOADED SPLIT FOR THE 4TH AXIS (BLK PLSTC)	\$45.00
42	20068		COUPLINGS	\$12.00
43	22127		GIBBS 4 INCH	\$14.00
44	22126		GIBBS 6 INCH	\$18.00
45	21020		GUSSETS - MAXNC-15 (2-PCS.)	\$36.00
46	20375		HEAD SIDES FOR MAXNC 10 (2PCS.)	\$70.00
47	21058		HEAD SIDES FOR MAXNC 15 (2 PCS.)	\$118.00
48	31112		LEAD SCREW 12"	\$36.00
49	31116		LEAD SCREW 16"	\$48.00
50	31118		LEAD SCREW 18"	\$54.00
51	41170		LEAD SCREW 48" PTFE FOR ROUTER	\$375.00
52	21025		LEGS (2 PCS.) MAXNC-15	\$40.00
53	20111 #		LEGS (2PCS.)) MAXNC-10	\$32.00
54	22125		LIMIT SWITCHES (SERVO) (3 PCS.)	\$60.00
55	20143		PROBE TIP 1/16" DIGITIZING	\$12.00
56	20218		PULLEY (LARGE) (SAME FOR ALL MACHINES)	\$24.00
57	20220		PULLEY (LARGE) FOR LATHE	\$27.00
58	20215		PULLEY (SM) MUST SPECIFY SHAFT SIZE (1/4,5/16,1/2)(5/16 - 1/10 SPINDLE)	\$18.00

	A	B	C	D
59	20222		PULLEY (SMALL) FOR LATHE	\$17.50
60	20236		ROTARY TABLE BASE	\$55.00
61	20355		SLIDE X (12")	\$95.00
62	21009		SLIDE X (16")	\$135.00
63	21010		SLIDE X (18")	\$235.00
64	20360		SLIDE Y (12")	\$75.00
65	21005		SLIDE Y (16")	\$100.00
66	21012		SLIDE Y UPGRADE FOR ROUTER	\$450.00
67	20365		SLIDE Z (12")	\$75.00
68	21007		SLIDE Z (16")	\$105.00
69	20117		SPEED CONTROLLER	\$18.00
70	20012		SUPPORT BLOCK	\$48.00
71	22709		THRUST BEARINGS & WASHERS (MOTOR)	\$14.00
72	22128		THRUST ROLLER BEARING (AXIS)	\$12.00
73	22705		TOOL POST 3/8" DIA (BORING BAR) FOR LATHE	\$45.00
74	22704		TOOL POST 3/8" SQUARE FOR LATHE	\$45.00
75	22707		TOOL POST 5/8" CUT OFF TOOL FOR LATHE	\$45.00
76	41166		TRIGEL (LEAD SCREW LUBRICANT)	\$25.00
77	20113		WRENCH SET (2 PCS)	\$34.00
78	20380		XY BLOCK (4" X 4") BSA	\$75.00
79	21015		XY BLOCK (4" X 6") BSA	\$140.00
80	20370		Z BLOCK (4" X 4") BSA	\$65.00
81	21017		Z BLOCK (4" X 6") BSA	\$115.00
82				
83				
84			ASSEMBLY	
85				
86	30000	ASSEMBLY	AIR SPINDLE (58,000 RPM AT 90 PSI MAX 10	\$160.00
87	30001	ASSEMBLY	AIR SPINDLE (58,000) RPM AT 90 PSI) MAX 15	\$180.00
88	20160	ASSEMBLY	HEAD MAXNC 10 (INCLUDING SPINDLE) PULLEY & NUT	\$160.00
89	21055	ASSEMBLY	HEAD MAXNC-15 (INCLUDING SPINDLE) PULLEY & NUT	\$190.00
90	41155	ASSEMBLY	LEAD SCREW 12"BSA AND NUT	\$81.00
91	41152	ASSEMBLY	LEAD SCREW 16"BSA AND NUT	\$93.00
92	41164	ASSEMBLY	LEAD SCREW 18" BSA AND NUT	\$99.00
93	41156	ASSEMBLY	LEAD SCREWS 12"BSA AND NUTS(3 SCREWS AND 3 BSA NUTS)	\$243.00
94	21060	ASSEMBLY 16	LEAD SCREWS 16"BSA AND NUTS(3 SCREWS AND 3 BSA NUTS)	\$279.00
95	20235	ASSEMBLY	ROTARY TABLE AND BASE	\$375.00
96	20090	ASSEMBLY	SLIDE 12" SINGLE W/ Z BLOCK AND LEADSCREW /NUT(BRASS)	\$145.00
97	21030	ASSEMBLY	SLIDE 16" W/ 4 X 6" Z BLOCK	\$285.00
98	20100	ASSEMBLY	SLIDES 12" X AND Y WITH X -Y BLOCK	\$234.00
99	20110	ASSEMBLY	SLIDES 12"XYZ (INCLUDING X-Y BLOCK,Z BLOCK SUPPORT BLOCK)	\$360.00
100	21050	ASSEMBLY	SLIDES 16" MAXNC 15 XYZ(INCLUDES GUSSETTS ,XY AND Z BLOCKS )	\$621.00
101	21040	ASSEMBLY	SLIDES 16" X AND Y WITH X -Y BLOCK	\$375.00
102	20162	ASSEMBLY	SPINDLE (SHAFT & BEARINGS)ONLY	\$66.00
103				
104				
105			ACCESSORIES	
106				
107	20250		3 JAW CHUCK	\$50.00
108	20255		4 JAW CHUCK	\$56.00
109	20556		4 JAW SELF CENTERING CHUCK	\$65.00
110	20240		4TH AXIS MAX 10	\$535.00
111	20260		4TH AXIS MAX 10-2 AND 15	\$615.00
112	22260 ##		4TH AXIS SERVO MAX 10-2CL AND 15CL	\$495.00
113	30002		AIR MICRO GRINDER	\$85.00
114	20832		ANGLE CUTTER 45 DEGREE X 1/2	\$47.00
115	22118		CHIP PROGRAMABLE (UNPROGRAMED)	\$45.00
116	22118A		CHIP PROGRAMABLE PROGRAMED	\$57.00

	A	B	C	D
117	20570		CLAMPS (2 pcs.)	\$10.00
118	30644		CNC MACHINE HANDBOOK	\$65.00
119	20168	&&	COLLET 1/4"	\$5.50
120	20166	&&	COLLET 1/8 (15 DEGREE TAPERED)	\$5.50
121	20167	&&	COLLET 3/16 (CAN NOT TAKE 1/2" COLLET)	\$5.50
122	20186		COLLET 5/16	\$5.50
123	20181		COLLET 5/32	\$5.50
124	20183		COLLET 7/32	\$5.50
125	20185		COLLET 9/32	\$5.50
126	20169		COLLET BLANK	\$5.50
127	20180		COLLET SET (1/8-3/16-1/4-5/32-7/32-9/32-5/16)	\$37.50
128	41158		COMPUTER WITH KEYBOARD AND MOUSE	\$395.00
129	22115		CONNECTOR FOR COOLANT	\$12.00
131	22117		COOLANT NOZZLE	\$25.00
132	22116		COOLANT PUMP	\$65.00
133	41092		DRILL CHUCK 1/16-3/8 SIZE	\$15.00
134	41140		DRILL CHUCK ARBOR	\$12.00
135	20115		EDGE FINDER (SINGLE END) ONLY	\$10.00
136	20114		EDGE FINDER (SINGLE END) WITH ADAPTER	\$58.00
137	20058		EMERGENCY SWITCH FOR ENCLOSURE	\$110.00
138	20750		ENCLOSURE MAX T-2 (7-7-04)	\$525.00
139	20057		ENCLOSURE MAXNC 10 OR 10-2	\$525.00
140	22060		ENCLOSURE MAXNC 15	\$685.00
141	20510		END MILL .031	\$25.00
142	20823		END MILL HOLDER 1/4	\$48.00
143	20822		END MILL HOLDER 3/16	\$48.00
144	20825		END MILL HOLDER 3/8	\$48.00
145	20824		END MILL HOLDER 5/16	\$48.00
146	20830		ENDMILL 1/8" DIA CARABIDE 3/4" CUT	\$17.50
147	20821		ENDMILL HOLDER 1/8	\$48.00
148	20820		ENDMILL HOLDER SET (1/8-3/16-1/4-5/16-3/8)	\$230.00
149	20550		ENDMILL SET (1/16-1/8-3/32-5/32-3/16)	\$55.00
150	20831		ENDMILL 1/8" DIA CARABIDE 1" CUT	\$22.00
151	20132		PROBE 3D DIGITIZER (DLX )	\$225.00
152	20130		PROBE 3D DIGITIZER (MAX PRO STANDARD )	\$225.00
153	22810		PROBE 3-D DIGITIZER FOR MAXPATH 42 (ROUTER)	\$330.00
154	22230		PROBE 3D DIGITIZER SERVOS	\$325.00
155	20142		PROBE BLANKS FOR 3-D DIGITIZING	\$8.00
156	20116		PROBE STYLUS FOR DIGITIZING	\$12.00
157	20165		ROTARY TABLE ONLY	\$320.00
158	20059		SAFETY SWITCH FOR MAXNC - ENCLOSURES	\$150.00
159	41150		SKIRT KIT MAXNC 10 AND 10-2	\$55.00
160	41151		SKIRT KIT MAXNC 15	\$65.00
161	20251		SOFT JAW BLANKS (3 JAW CHUCK ONLY)	\$15.00
162	22119		SPEED CONTROLLER	\$18.00
163	41160		SPINDLE ADAPTER (MACHINABLE FOR LARGER TOOLS)	\$45.00
164	20174		SPINDLE NUT	\$12.50
165	30030		STABALIZER (AXIS)	\$19.95
166	20261		TAIL STOCK	\$75.00
167	22261		TAIL STOCK FOR LATHE(Closed Loop Servo)	\$95.00
168	20112		T-NUTS (EACH)	\$4.00
169	20134		TOOL HOLDER BLANK	\$25.00
170	20560		VICE	\$75.00
171	20118		WRENCH SET (2 PCS.)	\$34.00
172				
173				
174			SOFTWARE	
175				

	A	B	C	D
176	21111		BOB CAD V-19- PLUS TRAINING GUIDE	\$375.00
177	20615		DIGITIZING SOFTWARE DLX STEP & DIRECTION	\$225.00
178	20601		MAXNC 10 DLX	\$225.00
179	20605		MAXNC DLX (STEP & DIRECTION)	\$225.00
180	20013		MAXNC OPENLOOP 2005	\$225.00
181	20020		MAXNC PRO STANDARD VERSION	\$125.00
182	20025		MAXNC PRO STEP AND DIRECTION VERSION	\$125.00
183			(MAXNC SOFTWARE CONNECTS DF FILES TO CNC PROGRAMMING)	
184				
185				
186			SOFTWARE UPGRADES	
187				
188	22620		MAXNC CL SERVO SOFTWARE UPGRADE	\$25.00
189	20610		MAXNC DLX UPGRADE FROM MAXPRO SOFT. (SPECIFY PHASE OR STEP & D)	\$100.00
190	20021		MAXNC PRO STANDARD VERSION (UPGRADE)	\$25.00
191	20024		MAXNC PRO STEP AND DIRECTION VERSION (UPGRADE)	\$25.00
192	20620		OLD DLX TO NEW DLX UPGRADE	\$25.00
193				
194				
195			ELECTRICAL COMPONENTS	
196				
197	41153		BRUSH SET (2) SPINDLE MOTOR 1/10 HP #IR-389	\$12.50
198	22045		BRUSH SET 1/2 HP MOTOR (2PCS)	\$19.00
199	41154		BRUSH SET 1/5 SPINDLE MOTOR	\$17.50
200	22042		CABLE SERVO	\$12.00
201	20042		CABLES (1) 145 OZ/IN STEPPER MOTORS	\$10.00
202	20043		CABLES (1) 70 OZ/IN STEPPER MOTORS	\$10.00
203	20211		CABLES FOR CONTROL BOX ENCODER OR MOTOR 6"	\$12.00
204	22086		CAPACITOR	\$6.50
205	22073		CIRCUIT BOARD FOR MAXNC-10 - OPEN LOOP	\$85.00
206	20055		CIRCUIT BOARD FOR MAXNC-15-NEEDS 3 GOLD RESISTORS -OPEN LOOP	\$104.50
207	22250		CIRCUIT BOARD FOR SERVO MACHINES	\$375.00
208	22069		CIRCUIT BREAKER- CL MACHINES	\$25.00
209	22448		CONTROL BOX - SPINDLE - T-2LATHE	\$180.00
210	20446		CONTROL BOX ASSEMBLED FOR LATHE CLOSED LOOP	\$625.00
211	22255		CONTROL BOX ASSEMBLED CL (CLOSED LOOP SERVO) MACHINE	\$625.00
212	20445		CONTROL BOX ASSEMBLED MAX10-2 OR 15 OPEN LOOP	\$375.00
213	20210		CONTROL BOX ASSEMBLED MAXNC-10 OPEN LOOP	\$375.00
214	22449		CONTROL BOX FOR MAXPATH-42 ROUTER	\$625.00
215	22085		DIODE	\$12.00
216	20030		DRIVER CIRCUIT BOARD	\$27.00
217	20040		ELECTRONIC GROUP	\$44.00
218	22067		ENCODER - DOUBLE STACK MOTORS	\$55.00
219	22065		ENCODER (SINGLE FOR PAC-SCI MOTORS	\$55.00
220	22450		ENCODER (SPINDLE ENCODER FOR LATHE)	\$114.00
221	20076		FAN 145 IN/OZ SYSTEM	\$30.00
222	20075		FAN 70 IN/OZ SYSTEM	\$25.00
223	20170		MOTOR 1/10 HP SPINDLE	\$78.00
224	20581		MOTOR 1/2 H.P. D.C. (LATHE) VOLTAGE 65	\$110.00
225	20580		MOTOR 1/2 HP SPINDLE - INCLUDES SMALL PULLEY & LEGS	\$250.00
226	20175		MOTOR 1/5HP SPINDLE - INCLUDES PULLEY	\$103.00
227	20440		MOTOR 145 OZ/IN	\$95.00
228	20060		MOTOR 70 IN/OZ	\$55.00
229	22240		MOTOR SERVO W/ENCODER 145 OZ/IN MAXNC-15CL	\$150.00
230	22062		MOTOR SERVO W/ENCODER SINGLE STACK FOR MAXNC-10CL	\$130.00
231	20060		PARALLEL PORT CABLE (PRINTER)	\$7.00
232	20245		PARALLEL PORT CARD	\$29.00
233	22072		RECTIFIER - CL MACHINES	\$12.00



	A	B	C	D
234	20014		RELAY 9.0 VOLT	\$7.25
235	20455		RESISTORS 50 OHM (GOLD)	\$6.50
236	20163		SPINDLE MOTOR WIRE HARNESS	\$32.00
237	22451		SPINDLE RELAY	\$14.00
238	20214		TIP - 120	\$2.00
239	20070		TRANSFORMER - 1 AMP 24 VOLT	\$15.00
240	20230		TRANSFORMER - 220-110V (EUROPEAN POWER)	\$39.95
241	20073		TRANSFORMER - 3 AMP 12 VOLT	\$25.00
242	22070		TRANSFORMER - 4AMP - SERVO (12 VOLTS)	\$25.00
243	22076		TRANSFORMER 6 VOLT 1 AMP SERVO	\$18.00
244	22071		TRANSISTOR TIP #120	\$2.50
245				
246				
247			MOTION CONTROL SYSTEMS	
248				
249	22155		MOTION CONTROL "10 CL SERVO (3AXIS) 135 OZ/IN SINGLE STACK MOTORS	\$875.00
250	22160		MOTION CONTROL SYS. 10CL (4AXIS) SINGLE STACK MOTORS 135 OZ/IN	\$975.00
251	20120		MOTIONS CONTROL SYS 70 IN/OZ (3 AXIS) OPEN LOOP	\$295.00
252	20450		MOTION CONTROL SYS. 145 IN.OZ (3 AXIS) OPEN LOOP	\$645.00
253	22222		MOTION CONTROL SYS. 145 IN.OZ (3 AXIS) SERVO DOUBLE STACK	\$1,150.00
254	22224		MOTION CONTROL"SERVO (4AXIS) 145 OZ/IN DOUBLE STACK MOTORS	\$1,325.00
255	22207		MOTION CONTROL SERVO T2 LATHE	\$745.00
256				
257				
258			RETROFIT KITS	
259				
260	20242		4TH AXIS (10) (CUSTOMER SUPPLY ROTARY TABLE)	\$360.00
261	20262 *		4TH AXIS 10-2 OR 15 (CUSTOMER SUPPLY ROTARY TABLE)	\$440.00
262	20140 *		HARDWARE KIT	\$112.00
263	41157 *		MAX 10 OR 10-2 V THREAD LEAD SCREWS TO BSA	\$245.00
264	22154 **		MAX 10, 10-2 , 15 STEPPER TO SERVO (4 MOTORS)	\$1,225.00
265	22710 **		MAX T-2 LATHE TO MAX T-2CL (SINGLE STACK MOTORS)	\$950.00
266	20452		MAX10 TO 10-2 W/EXCHANGE	\$445.00
267	22156		MAX10 TO 10CL SINGLE STACK MOTORS 3 AXIS - LIMIT SWITCHES	\$895.00
268	22161		MAX10 TO 10CL SINGLE STACK MOTORS 4 AXIS- LIMIT SWITCHES	\$995.00
269	22153		MAXNC 10, 10-2, 15 STEPPER TO SERVO (3 MOTORS)	\$1,050.00
270	20155		SHERLINE MOTOR MOUNTS (EACH)	\$15.00
271	22074		SPACERS FOR MAXNC-10 - 10CL RETROFIT KIT W /1/5HP SPINDLE MOTOR	\$15.50
272	22075		THRUSH BEARING FOR RETROFIT KITS	\$12.50
273				
274				
275			HOURLY RATE TO MAKE CUSTOMERS SAMPLES	\$45.00
276				
277				
278				
279				
280			FOR ANY PRICE THAT IS NOT LISTED PLEASE CALL US	
281				
282			*THE MACHINE MUST BE SHIPPED TO MAXNC AT OWNERS EXPENSE	
283			** THE ITEMS MUST BE SHIPPED TO MAXNC AT OWNERS EXPENSE	
284			***INCLUDES HEAD, SPINDLE	
285			# SHIPPED IN PAIRS, BILLED AS TWO PARTS UNLESS OTHERWISE SPECIFIED BY PURCHASER	
286			#DOES NOT REQUIRE A SEPERATE CONTROL BOX	
287			*****DOES NOT INCLUDE LEAD SCREWS	
288			&&THESE COLLETS COME WITH THE MACHINE	
289			&&& MUST RETURN SRV CONTROL BOX	
290			### IF PURCHASED WITH MACHINE THE PRICE IS-----	\$495.00

## MAXNC LIMITED WARRANTY

MAXNC warrants this product against defects in materials and workmanship for a period of 90 days from the date of purchase. During this period, Maxnc will repair or replace this product, at the plant location, free of charge for parts and labor. Thereafter, Maxnc warrants this product against defects in materials only for a period of one (1) year from the date of purchase. During this period, Maxnc will replace the faulty component free of charge excluding installation costs. All items returned require an RMA (return material authorization) number.

*Transportation costs to and from the Company's plant location as well as crating and handling costs is not covered under this warranty.*

## MAXNC 15 DAY REFUND POLICIES

Refunds are subject to a 10% clean up, test and restocking charge. MAXNC will refund, upon return of this product, 90% of the full price paid, for a period of 15 days from the delivery date. Transportation costs to and from the Company's plant location as well as crating and handling costs are not covered under this Policy. The product returned must to be in new or salable condition without damage. It is the customer's responsibility to insure protection against damage during shipping back to the Company's plant. If the equipment has been crated when shipped from the Company, it must be crated again, with all the support blocks and straps in place, to prevent any damage in transport. All items returned require an RMA (return material authorization) number and must arrive at the company's plant no later than 15 days from the date of delivery. To obtain an RMA number, contact the Company by phone or by fax.

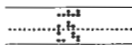
## SPECIAL ORDERS

All machines that are special ordered are covered under the above warranty. There is no refund policy for these orders. All sales are final.

## SOFTWARE

There is no refund on software.

**MAXNC**



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