Benchtop CNC Router

Standard Features

Aluminum machine base
Full enclosure
Mechanical hold-down table with clamps
Dust collection nozzle
Linear motion system:
- Anti-backlash ballscrews
- 1-1/4" precision ground shaft
- Low-friction linear bearings

Tooling:
- 1/4" and 1/2" collets
- 1/4" carbide-tipped, straight double flute bit
- Spindle wrenches

Control Software
User's Guide

Machine Specifications

Axis Travel

X Axis	22.50"	(571 mm)
Y Axis	24.00"	(610 mm)
Z Axis	4.00"	(100 mm)
Open Height	4.75"	(120 mm)

Work Area

Table Size	24" x 32" (610 mm x 812 mm)
Table load capacity	100 lbs. (45 kg)

Spindle

Drive Motor	1-3/4 hp (1300 W)
Speed Range	10,000 - 25,000 RPM
Spindle nose	1/2"
Collet Capacity	1/4" and 1/2"

Feed Motors

Linear feed rate	0.1-60 ipm (2-1525 mm/min)
Circular feed rate	0.1-40 ipm (2-1015 mm/min)
Rapid feed rate	100 ipm (2540 mm/min)

Power Requirements

United States	120 VAC (+/-5%), 50-60 Hz, 15A

Dimensions

Width	32.5"	(825 mm)
Depth	47.0"	(1194 mm)
Height	34.0"	(864 mm)

Weight (approximate)

Machine	420 lbs.	(190 kg)
Shipping	520 lbs.	(236 kg)

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CNC Router

Benchtop CNC Router Specifications

Control Specifications

Interpolation

Full 3-axis simultaneous movement
Simultaneous linear and circular interpolation on all axes
Helical interpolation
Circular interpolation with center point or radius input

Programming Standards

EIA RS274-D standard G & M codes
Subprograms
Fanuc®-compatible NC code subset
CAD/CAM compatible
Multiple programs possible with chaining command

Programming Modes

Incremental and absolute programming
G & M codes for robotic interfacing
Inch or metric programming
Scaling, rotation, mirroring and subprograms

Programming Features

Programmed pause, dwell, chain, and repeat functions
Programmable on/off spindle motor with M codes
Programmable spindle speed control with S codes
Canned cycles for drilling and boring
Align/homing command
Tool offsets for 199 tools
Cutter compensation
Multiple coordinate systems

Operational Modes

Manual override spindle speed, 50-150%
Software override feed rate, 0-200%
Computer-controlled jog, go-to, and traverse motion
Operational mode; single block and continuous run
Optional skip and stop

System Input

Calculator-style input for numeric data entry
Keyboard-or mouse-operated menus
Full screen editor support with keyboard or mouse

System Feedback

Error messages
HELP functions on screen
Instantaneous position readout of X and Z axes
3-D graphic tool path verification with rotational viewing

Electronic Interface

Controller Box
PCI computer interface card
Computer interface cable
Control software

System Interfaces

Robotic interface with optically isolated I/O (5-25V)
Optically isolated AC outputs

Safety Features

Transparent safety shield with interlock switch
Emergency stop switch on front panel
Emergency stop on keyboard
Two limit switches on each axis of travel
End of travel stops on each axis

Computer System Requirements

Pentium P120 or faster personal computer with:
- Minimum of 64 MB RAM
- Hard drive with 5 MB RAM available space
- One available PCI slot
- Serial Port
- Parallel Port
- CD-ROM
- VGA graphics and monitor
- Mouse
- Windows® 98/2000/NT™ 4.0

Ordering Information

Machine	Model No.
Benchtop CNC Router	LMR-8801

Options (not included with basic system)

Dust collection system	ACC-5734
Router support stand	ACC-55998
spectraCAM™ Milling software	CAM-6721

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