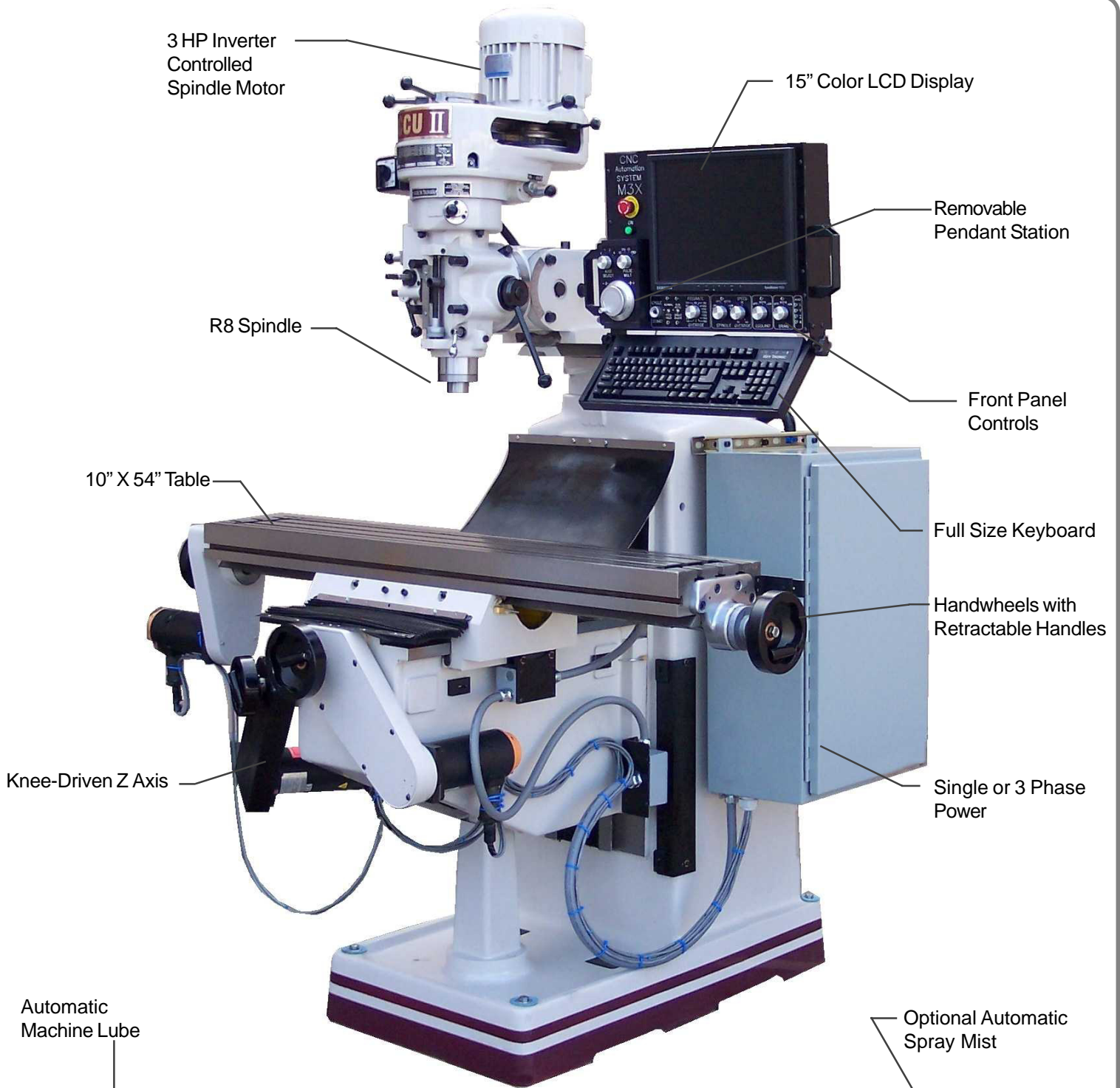


# System M3X-3V

Versatile design. Solid support.



Automatic Machine Lube



Optional Automatic Spray Mist



**CNC Automation, Inc.**  
**800-449-9411**  
**www.cncauto.com**

# MODEL M3X-3V

Table Size	10" X 54"	Spindle Motor	3 HP, Inverter Controlled
Long Travel	34"	Spindle Speeds	65-5,400 RPM
Cross Travel	15"	Number of Speeds	Infinitely Variable
Vert Travel	15"	Spindle Taper	R-8
Max. Distance Spindle to Table	20"	Head Swivel	90°
Min. Distance Spindle to Table	2"	Head Tilt	45°
Min. Distance Spindle to Column	5 7/8"	Quill Dia.	3 -3/8"
No of T-Slots	3	Quill Travel	5"
Size of T- Slots	5/8"	Net Weight	3600 lbs.
		Dimensions ( W-L -H)	77" X 60" X 88"
		Standard Equipment:	Way Covers, Automatic Lube, Toolbox, Drawbar

Options: Automatic Spray Mist, Synchronous 4th Axis W/ Horizontal/Vertical Rotary Table, CAM Software, Quick Change Tooling.

## System M3X Specifications

### Programming

- Automatically runs EIA RS-274D Standard G & M Code Programs
- FANUC® Compatible Programming
- Backlash Compensation
- Complete Program Edit Capability
- MDI Operation, Auto, Single Block, Jog, Home
- Full Canned Cycle Support G81-G89
- Subprogramming Support M98, M99
- Inch/Metric Programming Modes G70, G71
- Absolute & Incremental Programming G90, G91
- Scaling G50, G51
- Mirror Image about X, Y Axis G11-G14
- Spline Interpolation G06
- CW/CCW Circular Interpolation G02, G03
- Fixture Offsets G54-G59
- Cutter Diameter Compensation G40, G41, G42
- Tool Length Offsets G43, G44, G49
- Automatic Spindle Speed Control by S-Codes

### I/O

- RS-232C Bi-Directional Serial Port
- Floppy Diskette
- Parallel Printer Port
- Fixed Disk Drive
- USB Port

### Computer

- 32 bit Microprocessor
- 80 Gb. Hard Disk Storage
- 128 Mb. RAM Memory
- 3.5" Floppy Diskette Drive
- 15" LCD Color Display
- Enhanced Keyboard

### Display

- View Program While in Run Mode
- Large Character Manual DRO Feature

### Control Panel

- Feedhold Switch
- Single Block Switch
- Cycle Start Button
- E-Stop Switch
- Feedrate Override Control 0-150%
- Spindle Control Switch 25-100%
- Spindle Speed Override Control
- Electronic Handwheel
- Coolant Control Switch

### Electrical

- 208 Volts 3 Phase W/ Neutral and Ground **OR**  
220 VAC Single Phase Residential Power.

### Positioning

- Electronic Handwheel Jog (MPG)
- Continuous Jog via Keyboard
- Incremental Jog (.0001" to 100"), Presettable
- Minimum Programmable Increment .0001"
- Simultaneous 3-Axis Linear Interpolation up to 200 IPM. G01
- Helical Interpolation up to 180 IPM. G02/G03
- Rapid Positioning X, Y, Z 180 IPM G00

### Mechanical

- Overtravel Limit Switches
- Zero Reference Switches
- NEMA Electrics
- Full 3 Axis PWM DC Servo Drive System
- Zero Backlash Ballscrews on X, Y & Z Axes

### Accuracy

- Positioning Accuracy ± .0005" Over Saddle
- Repeatability ± .0002 " Over Saddle
- Standard Control Resolution .0001 In.
- Standard Display Resolution .0001 In.
- System Resolution 40,000 counts per inch of travel, X, Y, Z.

## CNC Automation, Inc.

13 Columbia Dr. Amherst, NH 03031

Tel. (603) 882-9411 Fax. (603) 595-9556

Visit our website at: [www.cncauto.com](http://www.cncauto.com)

NOTE: We reserve the right to modify the design and/or specifications without notice.