

# ML26/80

Combination Lathe

• Swing: 27" • Spindle Bore: 4.17"



**MILLTRONICS USA**

LET'S INVENT

*Serving Industry Worldwide Since 1973*



Slant Bed  
Turning  
Centers



Combination  
Lathes



Horizontal  
Boring  
Mills



Toolroom  
Machining  
Centers



50 Taper  
Box Way Machining  
Centers



Rigid Head  
Toolroom  
Bed Mills



Bridge  
Mills



Linear Way  
Machining  
Centers

## SPECIFICATIONS

### CAPACITY:

X / Z Axis Travel	13 / 84" (330 / 2130 mm)
Swing Over Bed (Diam)	27" (685 mm)
Swing Over Gap (Diam)	34.2" (870 mm)
Gap Distance	12.75" (320 mm)
Swing Over Cross Slide (Diam)	16.1" (410 mm)

### SPINDLE:

Spindle Nose	A1-11
Spindle Bore	4.17" (106 mm)
Spindle Nose (with Opt Bore)	A2-11
Spindle Bore (Opt)	6" (153 mm)
Spindle Range	30-1600 RPM
AC Spindle Motor	24/15 HP (18/11 kW) 2 Speed
Spindle Torque	1250 ft-lbs (1690 N.m)

### TAILSTOCK:

Tailstock Quill Travel	6" (150 mm)
Tailstock Quill Diameter	3.94" (100 mm)
Tailstock Quill Taper	MT5

### AUTOMATIC TURRET:

Number of Tools	8
Tooling Size	1" (25 mm)
Boring Bar Capacity	1.5" (38 mm)
Tool Selection	Bi-directional

### MOTION:

X, Z Axis Rapid Traverse Rate	500 IPM (12.7 m/min)
Max. Cutting Feed Rate	100 IPM (2540 mm/min)
X Axis Ball Screw Diameter	1.25" (32 mm)
Z Axis Ball Screw Diameter	1.97" (50 mm)
Positioning Accuracy	+/- 0.00025" (+/- 0.0063 mm)
Repeatability	0.0002" (0.005 mm)
Axis Thrust Force X,Z	4000 lbs. (1815 kg)

### GENERAL:

Machine Height	83" (2108 mm)
Floor Space Required (W x D)	166 x 84" (4216 x 2133 mm)
Machine Weight	11,500 lbs (5200 kg)
Power Required	30 KVA / 80 amps
Voltage Required	208-240 Volts / 3 Phase

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## MACHINE FEATURES

### Machine Standards

- Fully ground square box ways with Turcite
- Automatic metered lubrication with low lube fault
- Flood coolant pump with nozzle
- Chuck guard with safety switch
- Tail stock with adjustable quill and safety switch
- Precision ground ball screws
- Heavy duty metal enclosure with full front guarding and sliding doors
- Chip drawer chip containment system
- Gap bed design
- Door interlock safety switch
- Handwheel controlled program execution
- Dual electronic handwheel for teach, manual or automatic operation
- Single spare "M" function and CNC "wait" channel
- Work lamp
- End of cycle light
- Remote electronic handwheel
- Tail stock latch and auto-position
- Edit key lock out switch
- 8 position turret
- High torque AC digital servo drives
- UL certified

### Machine Options

- Roller type steady rest
- Follow rest
- Manual chucks
- 5 C collet closer
- Hydraulic chuck packages
- Chip conveyor
- 6" (153 mm) bore with rear chuck mount

## CONTROL FEATURES

### Control Standards

- PC-based 8200-B CNC includes 1 GB parts storage memory
- Enhanced CPU with block processing speed of 2000 bps with enhanced jerk control and look ahead
- 12" LCD active matrix color display
- Conversational plus G & M code programming including drilling, boring, tapping, turning, facing, threading, bolt hole (C axis), tangent/circle generate
- Auto DXF file import
- 3D part and wire frame tool path graphics plus solid modeling graphics
- Management software that allows editing of very large program files at the machine
- Spindle load meter
- User definable macros with trig assist
- USB connectivity
- MTConnect compliant
- Networking