

ML16/40

Combination Lathe

• Swing: 17" • Spindle Bore: 2.05"



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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	11 / 44.5" (280 / 1130 mm)
Swing Over Bed (Dia)	17" (440 mm)
Swing Over Gap (Dia)	25.9" (658 mm)
Gap Distance	12.75" (320 mm)
Swing Over Cross Slide (Dia)	7.48" (190 mm)

SPINDLE:

Spindle Nose	A2-5
Spindle Bore	2.05" (52 mm)
Spindle Range	100-4000 RPM
AC Spindle Motor	18/12 HP (13/9 kW)
Spindle Torque	124 ft-lbs (168 N.m)

TAILSTOCK:

Tailstock Quill Travel	6" (150 mm)
Tailstock Quill Diameter	2.55" (65 mm)
Tailstock Quill Taper	MT4

AUTOMATIC TURRET:

Number of Tools	8
Tooling Size	.75" (20 mm)
Boring Bar Capacity	1.25" (32 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 Ballscrew Diameter	1" (25 mm)
Z Axis Ballscrew Diameter	1.57" (40 mm)
Positioning Accuracy	+/- 0.00025" (+/- 0.0063 mm)
Repeatability	0.0002" (0.005 mm)
Axis Thrust Force X,Z	1500 lbs. (680 kg)

GENERAL:

Machine Height	80" (2032 mm)
Floor Space Required (W x D)	120 x 83" (3050 x 2110 mm)
Machine Weight	6000 lbs. (2730 kg)
Power Required	23 KVA /60 amps
Voltage Required	208-240 Volts / 3 Phase

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
- Heavy duty metal enclosure with full sliding doors
- Tail stock with adjustable quill and safety switch
- Precision ground ball screws
- 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 light
- End of cycle light
- Remote electronic handwheel
- Tail stock latch and position coupler
- Edit key lock out switch
- 8 position turret
- High torque AC digital servo drives
- UL certified

Machine Options

- Roller type steady rest
- Follow rest
- 5 C collet closer
- Hydraulic chuck packages
- Manual chucks

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, 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

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