

ML40/160

Combination Lathe

• Swing: 39.7" • Spindle Bore: 6.02"



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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	21 / 160" (550 / 4000 mm)
Swing Over Bed (Diam)	39.7" (1010 mm)
Swing Over Gap (Diam)	50" (1280 mm)
Gap Distance	14.6" (370 mm)
Swing Over Cross Slide (Diam)	26.6" (675 mm)

SPINDLE:

Spindle Nose (STD)	A2-11
Spindle Bore (STD)	6.02" (153 mm)
Spindle Range (STD)	10-900 RPM Low Range 10-375 High Range 10-900
Spindle Nose (OPT)	A2-15
Spindle Bore (OPT)	10" (254 mm)
Spindle Range (OPT)	10-750 RPM Low Range 10-375 High Range 10-750
Spindle Nose (OPT)	A2-20
Spindle Bore (OPT)	14" (355 mm)
Spindle Range (OPT)	10-500 RPM Low Range 10-375 High Range 10-500
AC Spindle Motor	35/25 HP (26/18 kW) 2 Speed
Spindle Torque	1850 ft-lbs (2500 N.m)

TAILSTOCK:

Tailstock Quill Travel	9" (230 mm)
Tailstock Quill Diameter	4.92" (125 mm)
Tailstock Quill Taper	MT6

AUTOMATIC TURRET:

Number of Tools	8
Tooling Size	1.5" (38 mm)
Boring Bar Capacity	2" (50 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	1.57" (40 mm)
Z Axis Ballscrew Diameter	3.15" (80 mm)
Positioning Accuracy	+/- 0.00025" (+/- 0.0063 mm)
Repeatability	0.00039" (0.0010 mm)
Axis Thrust Force X,Z	6700 lbs (3000 kg)

GENERAL:

Machine Height	90" (2286 mm)
Floor Space Required (W x D)	272 x 110" (6909 x 2794 mm)
Machine Weight	28,900 lbs (13,000 kg)
Power Required	48 KVA / 125 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 system
- Chuck guard with safety switch
- Heavy duty metal enclosure with sliding doors
- Tailstock 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 lamp
- End of cycle light
- Remote electronic handwheel
- Tail stock latch and auto-position
- Edit key lock out switch
- High torque AC digital servo drives
- 8 position turret
- Rear chuck mount
- UL certified

Machine Options

- Roller type steady rest
- Follow rest
- Manual chucks
- Hydraulic chuck packages
- Chip conveyor
- 10" bore option with rear chuck mount
- 14" bore option 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

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