ML40/240

Combination Lathe

• Swing: 39.7" • Spindle Bore: 6.02"



SUPPORT ONE

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Designed, Built and Supported by American Craftsman

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ML40/240

SPECIFICATIONS

CAPACITY:

X / Z Axis Travel	21 / 240" (550 / 6000 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)	350 x 110" (8890 x 2794 mm)
Machine Weight	33,300 lbs (15,000 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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