

ML35/80

Combination Lathe

• Swing: 36.2" • Spindle Bore: 6.02"



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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 | 19 / 87" (480 / 2210 mm) |
| Swing Over Bed (Diam) | 36.2" (920 mm) |
| Swing Over Gap (Diam) | 45" (1150 mm) |
| Gap Distance | 14.6" (370 mm) |
| Swing Over Cross Slide (Diam) | 21.6" (550 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 | 8" (200 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 Ball Screw Diameter | 1.57" (40 mm) |
| Z Axis Ball Screw Diameter | 2.48" (63 mm) |
| Positioning Accuracy | +/- 0.00025" (+/- 0.0063 mm) |
| Repeatability | 0.00039" (0.010 mm) |
| Axis Thrust Force X,Z | 6700 lbs (3000 kg) |

GENERAL:

| | |
|------------------------------|-----------------------------|
| Machine Height | 90" (2286 mm) |
| Floor Space Required (W x D) | 193 x 110" (4902 x 2794 mm) |
| Machine Weight | 23,000 lbs (10,500 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
- 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 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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