

ML18/60

Combination Lathe

• Swing: 19" • Spindle Bore: 2.56"



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	12 / 63.5" (300 / 1600 mm)
Swing Over Bed (Diam)	19" (480 mm)
Swing Over Gap (Diam)	27.9" (710 mm)
Gap Distance	12.75" (320 mm)
Swing Over Cross Slide (Diam)	9.25" (235 mm)

SPINDLE:

Spindle Nose	D1-6
Spindle Bore	2.56" (65 mm)
Spindle Range	100-2600 RPM
AC Spindle Motor	24/15 HP (18/11 kW)
Spindle Torque	255 ft-lbs (345 N.m)

TAILSTOCK:

Tailstock Quill Travel	6" (150 mm)
Tailstock Quill Diameter	3.15" (80 mm)
Tailstock Quill Taper	MT5

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)	138 x 83" (3510 x 2110 mm)
Machine Weight	8500 lbs. (3850 kg)
Power Required	30 KVA / 80 amps
Voltage Required	208-240 Volts / 3 Phase

Distributed By:

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 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

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