

ML22/60

Combination Lathe

• Swing: 23" • Spindle Bore: 3.22"



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	13 / 63.5" (330 / 1600 mm)
Swing Over Bed (Diam)	23" (580 mm)
Swing Over Gap (Diam)	30.3" (770 mm)
Gap Distance	12.75" (320 mm)
Swing Over Cross Slide (Diam)	12.1" (310 mm)

SPINDLE:

Spindle Nose	A1-8
Spindle Bore	3.22" (82 mm)
Spindle Range	40-2000 RPM
AC Spindle Motor	24/15 HP (18/11 kW) 2 Speed
Spindle Torque	1050 ft-lbs (1423 N.m)

TAILSTOCK:

Tailstock Quill Travel	6" (150 mm)
Tailstock Quill Diameter	3.94" (100 mm)
Tailstock Quill Taper	MT5

AUTOMATIC TURRET:

Number of Tools	8
Tooling Size	1" (25 mm)
Boring Bar Capacity	1.5" (38 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	1.25" (32 mm)
Z Axis Ball Screw Diameter	1.77" (45 mm)
Positioning Accuracy	+/- 0.00025" (+/- 0.0063 mm)
Repeatability	0.0002" (0.005 mm)
Axis Thrust Force X,Z	2300 lbs. (1040 kg)

GENERAL:

Machine Height	83" (2108 mm)
Floor Space Required (W x D)	143 x 83" (3630 x 2108 mm)
Machine Weight	10,000 lbs. (4500 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