

MB20

Quill Head Toolroom Bed Mill

• Table: 54" x 16" • Travels: 40" x 20" x 24"



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:

Travels	40 x 20 x 24" (1015 x 510 x 610 mm)
Quill Travel	6" (150 mm)
Table Size	54 x 16" (1370 x 405 mm)
Allowable Table Load	2500 lbs. (1130 kg)
T-Slot Size	.63" (16 mm)

SPINDLE:

Spindle Gage Line To Table Distance Quill Up	3.75-27.75" (95-705 mm)
Column To Spindle Center	21" (530 mm)
Quill Diameter	4.125" (104 mm)
Spindle Taper	ISO No. 40
Spindle Speed (Low Gear)	60-500 RPM
Spindle Speed (High Gear)	500-4000 RPM
AC Spindle Motor	10/7.5 HP (7.5/5.5 kW)

MOTION:

X/Y, Z Axis Rapid Traverse Rate	500/300 IPM (12/7.6 m/min)
Max. Cutting Feed Rate	300 IPM (7.6 m/min)
Positioning Accuracy	+/- 0.00039" (+/- 0.010 mm)
Repeatability	0.0002" (0.005 mm)
Axis Thrust Force X/Y, Z	3000/4000 lbs. (1360/1800 kg)

GENERAL:

Machine Height	110" (2794 mm)
Floor Space Required (W x D)	129 x 82" (3276.6 x 2083 mm)
Machine Weight	7000 lbs. (3200 kg)
Power Required	23 KVA / 60 amps
Voltage Required	208-240 Volts / 3 Phase

MACHINE FEATURES

Machine Standards

- Heavily ribbed cast iron construction
- Fully ground solid ways with Turcite surfaces
- Precision ground double anchored ballscrews
- Precision ground table surface
- Metal way covers in front and rear of saddle
- Box ways on column and base
- Manual quill operation retained
- Automatic metered lubrication with low lube fault
- High torque 8:1 back gear
- High torque AC digital servo drives
- High torque vector spindle drive system
- LCD hour meter
- Single spare "M" function with CNC "wait" channel
- Flood coolant system with programmable on/off
- Coolant drip pan
- End of cycle light
- Power drawbar system
- Rear splash guards
- Work lamp
- Rigid tap
- Removable table chip guard
- Offline FastCAM software for programming and training
- Quill scale with CNC feedback
- UL certified

Machine Options

- Programmable spray mist

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 coordinate rotating, scaling, mirror image, thread mill engraving, helical interpolation, auto routines, and user definable macros with trig assist and irregular pocket clearing
- 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

Distributed By: