

# MB20

Quill Head Toolroom Bed Mill

- Table : 54" x 16"
- Travels : 40" x 20" x 24"
- Control : 8200-B



Shown with options



**MILLTRONICS USA**  
LET'S INVENT

## SPECIFICATIONS:

### CAPACITY:

X/Y/Z 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
- Programmable spray mist on/off
- Quill scale with CNC feedback
- UL certified



## 8200-B CNC

### The new standard of control

With its conversational programming, onscreen help, intuitive menus, color graphics and prompted tool settings, the 8200-B CNC helps new operators train faster and become more productive sooner. Shops can choose either conversational, G-code programming, or download tool paths created with a CAM system - whatever is the most efficient way to produce the required part.

### 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 loader meter
- User definable macros with trig assist
- USB connectivity
- MTConnect compliant
- Networking

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