

TOOLROOM BED MILLS

MACHINE FEATURES

- Fully Ground Table with Precision Ground Ball Screws
- Fully Ground Way Surfaces with Turcite
- Heavily Ribbed Cast Iron Components – No Weldments!
- Spindle Fully Programmable to 4000 RPM
- Selectable High Torque Backgear with 8:1 Gear Reduction
- MB19, MB20 and MB30 have #40 Spindle, MB18 has R8 Spindle
- Digital AC Servo Motors
- SLS "Skill Level Select" Software for First-time CNC Operators
- Milling Head Has Both Manual Quill Control and Head Rotation
- Program & Operate as Full 3 Axes CNC or in Simple 2 Axes CNC Mode or in Manual Mode with Electronic Handwheels
- Automatic Lubrication with Low Lube Fault

MACHINE OPTIONS

- Separate XY Electronic Handwheels
- Power Drawbar
- Work Lamp
- Table Guard
- Digitizing and 4th Axis
- Rigid Tap
- Drip Pan and Splash Guards



CONTROL FEATURES

- High Speed 1200 Blocks/Sec **Centurion 7** PC-Based CNC
- SLS "Skill Level Select" Operation with "Teach" Mode Programming and Handwheel Run Operation
- Digital Readout Operation in Manual Mode
- Conversational and ISO Programming
- High Resolution Large Color LCD Display
- Networking & Flash Memory Reader Options
- 12 Mb Motionless Disk Parts Storage Memory
- 8 Mb Extended Program Execution Memory with Large Program Editing/Execution Capabilities
- Concurrent Programming
- Simple Programming for the Toolroom

	Table	Travels	Spindle	HP
MB18	50" x 15" 1270 x 380 mm	32 x 19 x 22.5" 810 x 480 x 570 mm	R8 #30	5 3.7 kw
MB19	50" x 15" 1270 x 380 mm	32 x 19 x 22.5" 810 x 480 x 570 mm	#30 or #40 BT or CT	7.5 5.5 kw
MB20	54" x 16" 1370 x 405 mm	40 x 20 x 24" 1015 x 510 x 610 mm	#40 BT or CT	10 7.5 kw
MB30	73" x 24" 1850 x 610 mm	60 x 30 x 28" 1525 x 760 x 710 mm	#40 BT or CT	15 11 kw

SPECIFICATIONS

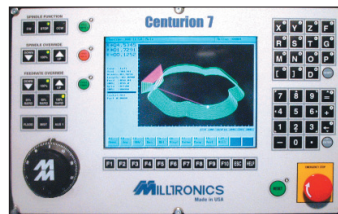
CAPACITIES		MB18	MB19	MB20	MB30
Table Size		50" x 15" 1270 x 380 mm	50" x 15" 1270 x 380 mm	54" x 16" 1370 x 405 mm	73" x 24" 1850 x 610 mm
Table Travel	X Axis	32" 810 mm	32" 810 mm	40" 1015 mm	60" 1525 mm
Saddle Travel	Y Axis	19" 480 mm	19" 480 mm	20" 510 mm	30" 760 mm
Head Travel	Z Axis	22.5" 570 mm	22.5" 570 mm	24" 610 mm	28" 710 mm
Manual Quill Travel		5" 125 mm	6" 150 mm	6" 150 mm	6" 150 mm
Quill Diameter		3.375" 85 mm	4.125" 104 mm	4.125" 104 mm	4.125" 104 mm
Table Capacity		1500 lbs. 680 kg	1500 lbs. 680 kg	2500 lbs. 1130 kg	3500 lbs. 1590 kg
SPINDLES					
Spindle Operation all Models		Programmable RPM, CW, CCW, Off			
Spindle Taper		R8, #30	#30 or #40, CT or BT	#40 CT or BT	#40 CT or BT
Spindle Speed		60-500 RPM (Low)	60-500 RPM (Low)	60-500 RPM (Low)	60-500 RPM (Low)
		500-4000 (High)	500-4000 (High)	500-4000 (High)	500-4000 (High)
Horsepower	1 min / 30 min	5/3 3.7/2.2 kw	7.5/5 5.5/3.7 kw	10/7.5 7.5/5.5 kw	15/10 11/7.5 kw
PERFORMANCE					
Rapid Traverse: X, Y		500 ipm 12 m/m	500 ipm 12 m/m	500 ipm 12 m/m	500 ipm 12 m/m
Rapid Traverse: Z		300 ipm 7.6 m/m	300 ipm 7.6 m/m	300 ipm 7.6 m/m	300 ipm 7.6 m/m
Maximum Feedrate		300 ipm 7620 mm/m	300 ipm 7620 mm/m	300 ipm 7620 mm/m	300 ipm 7620 mm/m
Position Accuracy		±0.00039" ±0.01 mm	±0.00039" ±0.01 mm	±0.00039" ±0.01 mm	±0.00039" ±0.01 mm
Repeatability		.0002" .005 mm	.0002" .005 mm	.0002" .005 mm	.0002" .005 mm
GENERAL					
Machine Weight		5900 lbs 2680 kg.	6000 lbs 2730 kg.	7000 lbs 3200 kg.	10,000 lbs 4500 kg.
Floor Space Requirement		127" x 78" 3225 x 1980 mm	127" x 78" 3225 x 1980 mm	129" x 78" 3280 x 1980 mm	169" x 91" 4300 x 2310 mm



Large Travel MB30 Shown with Options



Our **CENTURION 7** CNC features the SLS "Skill Level Select" toolroom software that allows the operator to change the conversational programming method to utilize full features or simple entry depending on the skill of the operator or the complexity of the part. Available in tactile or pushbutton key front panels.



Does a factory refurbished machine with a factory warranty appeal to you? See the previously owned machines we have in stock at www.milltronics.net.

MILLTRONICS
1400 Mill Lane • Waconia • MN • 55387
952-442-1410 • 952-442-6457 (Fax)
www.milltronics.net