

## SPECIFICATIONS:

Model	1BM	2BM	3BM
X Axis travel (mm)	762	812	1000
Y Axis travel (mm)	400	470	508
Z Axis travel (mm)	560	470	508
Spindle nose to table top (mm)	50 - 610	100 - 570	50 - 610
Spindle center to column face	450	500	500
Table dimensions	254 x 1270	305 x 1270	330 x 1500
Table T-slots (width x no. x pitch) (mm)	16x 3 x 63.5	16 x 3 x 63.5	16 x 3 x 63.5
Table load capacity	400 kgs	500 kgs	660 kgs
Spindle quill travel (mm)	127	140	140
Spindle nose	NST#30 (R8 Opt.)	NST#40 (CAT40 Opt.)	NST#40 (CAT40 Opt.)
Spindle Quill Diameter (mm)	85.725	106	106
Main motor (Inverter)	3HP	5HP	5HP (opt.7.5HP)
Spindle RPM	50 ~ 4,500	50 ~ 4,500 (opt.6,000)	50 ~ 4,500 (opt.6,000)
Rapid feed rate X / Y / Z	7.5 M/min	7.5 M/min	7.5 M/min
Cutting feed rate for 3-axis	3 M/min	3 M/min	3 M/min
Axis motor (X, Y, Z)	1 / 1 / 1 Kw	1 / 1 / 1 Kw	1.5 / 1.5 / 1.5 Kw
Coolant system	350W	350W	350W
Lubrication system	15W	15W	15W
Air pressure	6Kg / cm <sup>2</sup>	6Kg / cm <sup>2</sup>	6Kg / cm <sup>2</sup>
Machine weight	1,800Kgs	2,100Kgs	3,200Kgs
Floor space (L x W x H) mm	2500 x 1300 x 2100	2600 x 1500 x 2250	2800 x 1800 x 2425
CNC controller	MATCHMAKER – M83		

\* Specification and design characteristics are subject to change without prior notice.

### Standard Accessories

- M.P.G
- Air blast
- Coolant system
- LED Working lamp
- Heat exchanger cabinet
- Inverter spindle motor
- Precision ball screws for 3 Axis

- Auto Lubrication system
- Semi- enclosure guard
- Electrical / Mechanical manual
- Leveling pads & screw
- Tools & tool box

### Optional Accessories

- Power drawbar
- Transformer / stabilizer
- Table guard
- MATCHMAKER-M83 ESPU for extra I/O

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**MATCHMAKER**  
CNC



**L&W MACHINE**  
BM-Series

**MATCHMAKER-M83 CNC CONTROLLER**  
**CONVERSATIONAL CNC CONTROL**



**1BM**  
**2BM**  
**3BM**

# Bed Mill with MATCHMAKER-M83 CNC

## LOW COST CNC & USER FRIENDLY CONTROL

Rigid spindle with inverter controlled motor

MATCHMAKER-M83  
A user-friendly controller with graphics

Slide ways are Turcite® coated

AC absolute position Servo motor

Precision ball-screws installed in the table and saddle

High quality Meehanite castings

Guide way surfaces are hardened and ground

X and Y axis controlled hand wheel, only touch one button to switch machine to hand wheel mode.

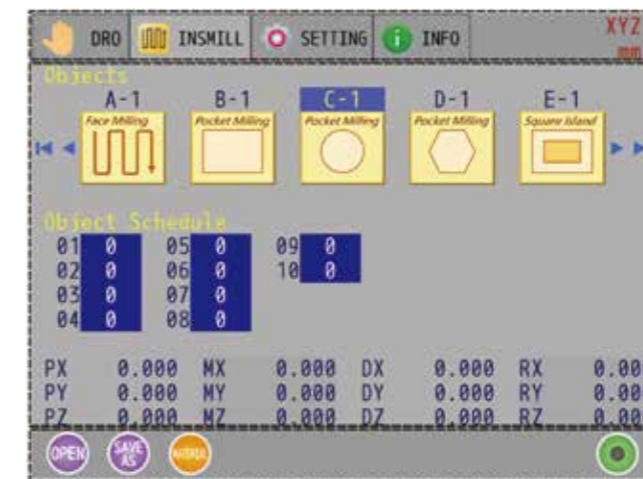


### MATCHMAKER-M83 + User Friendly Control System

- This makes the BM Series the perfect choice for those new to CNC Also for the workshop that's looking to modernize or expand. It's capabilities High speed machining has never been more affordable.



Ether CAT controller  
TCPU host unit  
10.4 inch color touch screen  
Multi-function hand wheel  
Multi-function button  
Emergency stop lock switch  
Milling machine can cycle  
2.5 D milling graphical dialogue  
ESPU I/O unit (Opt.)



INSMILL  
The simple graphic exhibit the shape of the part, the preset canned cycles simplify the operational procedures. Each milling object has four different optional sets of parameters to define the potential variations.

The Graphic guided system allows the operator to input geographic parameters as well as the desired machining parameters to the controller and also use the built-in user friendly canned cycle operations.

- This system can be converted to the traditional manual DRO hand wheel mode. All three axes are equipped with AC absolute positioning servo motors to achieve position accuracy, also maintain axes positions forever in the manual hand wheel operation.
- USB interface allows users to download large 3D ISO G codes generated by CAM to the controller, then execute without extra steps. (Opt.)

**MATCHMAKER Bed Mills Are Of A High Quality Construction To Offer Extraordinary Milling Efficiency, Quality, Rigidity, Smooth Operation And Long Lasting Accuracy - The Worlds No.1 Low Cost CNC**