FREJOTE

Bed Type Vertical With Horizontal Boring & Milling Machine



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TABLE AND SADDLE

- The table and saddle are made of high-quality cast iron which has been carefully stress relieved.
- Way surfaces are hand scraped and finished.

FEATURES:



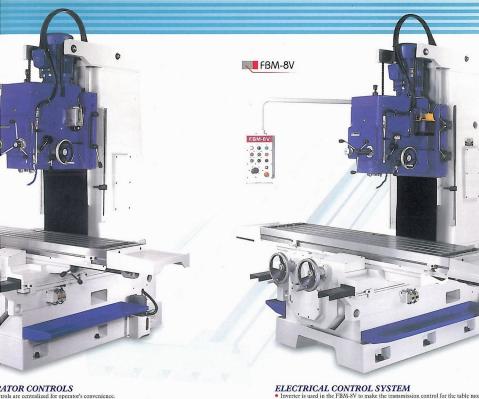


FEED BOX

- Table and saddle feed can be drived by power or manual operation, easy to change speeds and to operate.
- Because large range of speeds, it fits to do low speed heavy cutting to high speed, finishing cutting.

BACKLASH ELIMINATOR

- Table feed system is equiped with easy adjustable backlash eliminator to increase operating stability and cutting efficiency.
- Large supporting surface and narrow square guide ways provide stable and smooth sliding.



- . Its main features are as following:
 - · Frequency display. ·Current preset value.
- ·Operation and alarm displa
- Multi-protective devices:
 - Short circuit protection, low-voltage protection, over-voltage protection, ...etc.







- RIGID STRUCTURE Box shapped and reinforced by ribs construct a strong and rigid structure, which fits to do heavy duty cutting for large work pieces.
- Disposal of cutting fluid and chips is convenient, andeasy to clean.





- The vertical spindle head, saddle and table are equipped with pneumatic hydraulic clamp device.
- The horizontal spindle speed is 40-1450 RPM and with 12 steps speed changes.
- · A counter weight balance permits the head to travel smoothly and to retain its accuracy stability.
 - The X-axis travel up to 2000 mm is available on your request.

OPERATION DEVICE

- Whole structure of the machine is quite simple.
- The operation device, such as: switch, handle, is erected in the front of the machine.
- · So that all functional operations are at the operator's fingertips.
- · A counter balancing weight is housed in the column to quarantee the smooth travel of the spindle head.



ANTI-WEARING WAYS • Casting by high quality case iron.

- · Processed through complete annealing to release residual stress, all sliding ways hardened and ground to reserve high accuracy and wear resistance, guide the travel of spindle head and saddle accurate and enduring.

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SPECIFICATIONS

ITEM	UNIT	FBM-5V	FBM-7V	FBM-8V / FBM-8VHL
CAPACITY				
Table Travel (Longitudinal)	mm (in.)	1000 (39-3/8)	1200 (47-1/4)	1500 (59)
Table Travel (Cross)	mm (in.)	380 (14-15/16)	450 (17-11/16)	600 (23-5/8)
Vertical Spindle Head Travel (Vertical)	mm (in.)	500 (19-11/16)	550 (21-5/8)	700 (27-9/16)
Horizontal Spindle Head Travel (Vetical)	mm (in.)	-	-	-/650
Vertical Spindle Nose To Table Top	mm	100~600	100~650	100~800
	(in.)	(3-15/16~23-5/8)	(3-15/16~25-5/8)	(3-15/16~31-1/2)
Vertical Spindle Center To Column Front	mm (in.)	380 (14-15/16)	450 (17-11/16)	550 (21-5/8)
Horizontal Spindle Center				
To Vertical Spindle Center Distance	-	-	-	- / 550 (21-5/8)
TABLE				
Table Working Area	mm	1700 x 380	1900 x 450	2200 x 500
	(in.)	(67 x 14-15/16)	(74-13/16 x 17-11/16)	(86-5/8 x 19-11/16)
	mm	18 x 5 x 70	18 x 5 x 80	18 x 5 x 90
T-solt (Wide x No. x Pitch)	(in.)	(0.709 x 5 x 2-3/4)	(0.709 x 5 x 3-1/8)	(0.709 x 5 x 3-9/16)
Table Top To Floor	mm (in.)	800 (31-1/2)	850 (33-1/2)	860 (33-7/8)
SPINDLE HEAD				
Spindle Nose	-	ISO R297 No. 50	ISO R297 No. 50	ISO R297 No. 50
Vertical Spindle Speeds	rpm	45~1500 (60 Hz)	45~1500 (60 Hz)	45~1500 (60 Hz)
Horizontal Spindle Speed	rpm	-	-	- / 45~1450 (60 Hz)
No. Of Vertical Spindle Speed	steps	12	12	12
No. Of Horizontal Spindle Speed	steps	_	-	-/12
Feeds (Vertical Spindle)	mm/rev.	0.05~0.2	0.05~0.2	0.05~0.2
	(ipr)	(0.002~0.008)	(0.002~0.008)	(0.002~0.008)
FEED RAPID				
Rapid Traverse (Longitudinal & Cross)	mm/min (ipm)	2880 (113-3/8) (60Hz)	2880 (113-3/8) (60Hz)	3300 (129-7/8) (60 Hz)
Horizontal Rapid Traverse (Vertical)	mm/min (ipm)	-	-	- / 3800 (150) (60 Hz)
Feed Rates	mm/min	28~875	28~875	0~1000
(Longitudinal & Cross)	(ipm)	(1-1/8~34-7/16)) (60Hz)	(1-1/8~34-7/16) (60Hz)	(0~39-3/8) (60 Hz)
Horizontal Feed Rates (Veritical)	mm/min (ipm)	-	-	-/0~1000 (0~39-3/8) (60 Hz)
Change Of Feed	steps	12	12	Infinitely Variable
MOTORS				
Vertical Spindle	kw (HP)	AC 5.5 (7.5)-4P	AC 7.5 (10)-4P	AC 11 (15)-4P
Horizontal Spindle	kw (HP)	-	-	- / AC 5.5 (7.5)-6P
Feed	kw (HP)	AC 0.75 (1)-4P	AC 1.5 (2)-4P	SERVO MOTOR AC 1.5 (2)-6P / X & Y Axis: 3.5 (4. W axis: 0.85 (1.14
Lubrication	kw (HP)	AC 3W-4P	AC 3W-4P	AC 3W-4P
Cutting Fluid	kw (HP)	AC 0.15 (1/6)-2P	AC 0.15 (1/6)-2P	AC 0.15 (1/6)-2P
MACHINE SIZE				
Machine Height	mm (in.)	2410 (94-7/8)	2600 (102-3/8)	2870 (113)
Floor Space	mm	3200 x 2000	3800 x 2210	4440 x 2550
(Longitudinal x Cross)	(in.)	(126 x 78-3/4)	(149-5/8 x 87)	(174-7/8 x 100-3/8)
Net Weight (Approx)	kgs (lbs)	4000 (8800)	5200 (11440)	7000 (15400) / 8700 (19140)

^{*}The Design And Specifications Of The Machine Are Subject To Changes Without Further Notice

OPTIONAL ACCESSORIES

- I. Narex-czech, Made Universal Boring And Facing Head Set.
- 2. Hydraulic Vise.
- 3. Air Operated Vise 8" / 10" / 12".
- 4. Hydraulic + Mechanical Compact Vise.
- 5. Delux Super Spacer.
- . 6. Hori / Vert. Rotary.
- 7. Universal Dividing Head.
- 8. Universal Tilting Rotary.
- 9. ER Collet Milling Chuck Set With Specialized Sizes.
- 10. OZ Collet Milling Chuck.
- 11. Halogen Working Lamp.
- 12. Digital Read Out.
- 13. Boring Bar.
- 14. Power Draw Bar.
- 15. Spindle Speed. (60~1980 RPM) (For FBM~8V)
- 16. Below.

STANDARD ACCESSORIES

- Cutting Fluid Supply Mechanism1 Unit



Narex-czech. Made Universal Boring And Facing Head Set.







Air Operated Vise 8" / 10" / 12".





Oelux Super Spacer.



Hori / Vert. Rotary.



Universal Dividing Head



Universal Tilting Rotary.



ER Collet Milling Chuck Set With Specialized Sizes.



OZ Collet Milling Chuck.



Halogen Working Lamp.

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