BMV 50
STANDARD

Your Productivity Partner

Series: BMV50 | BMV50 TC24

www.bfwindia.com

Bharat Fritz Werner

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Vertical Machining Center

Series: BMV50 | BMV50 TC24

Vertical machining centre BMV 50 promises unrevealed quality, precision and productivity. These machines are of C-Frame construction with rigid base, robust spindle, and high precision feed mechanism with our state-of-the-art technologies. Heavy-duty machining combined with superior accuracies is the hallmark of these machines.

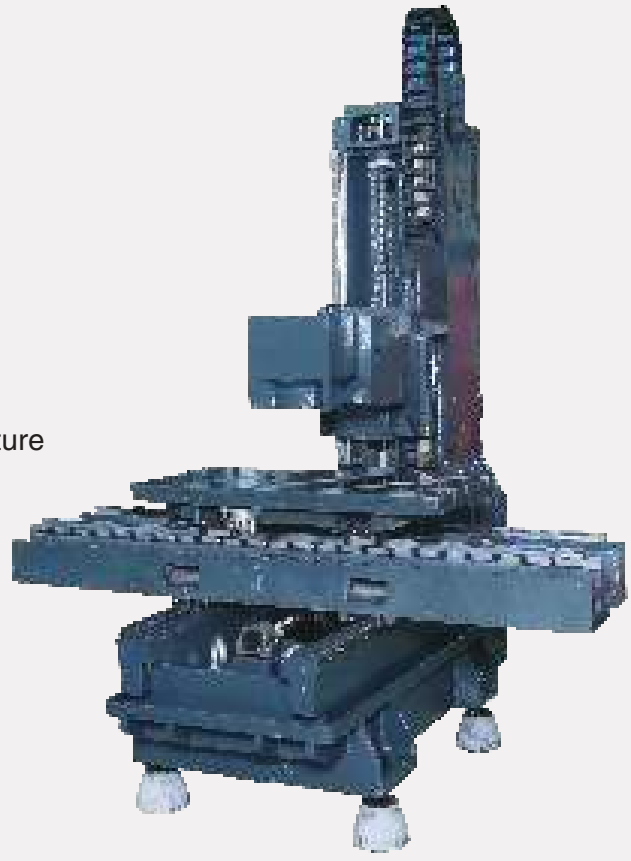
BMV 50 series catering to the requirements of machining small to medium size applications for batch production with diverse range of options, we can adapt our machining centers to meet specific application requirements for your competitive manufacturing.

Best-in-class features listed below:

- Compact foot print
- Superior aesthetics
- High metal removal rate
- Easy coolant and chip management
- Powerful spindle with various power & torque options

Structure

Rugged thermo symmetrical structure for superior cutting performance



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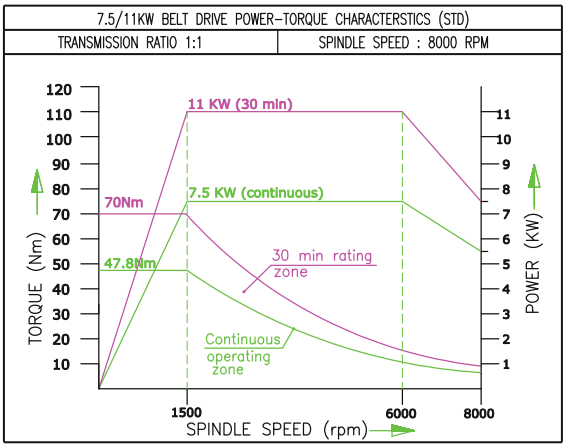
Spindle Characteristics

Mitsubishi/Fanuc



Fanuc (V Package)

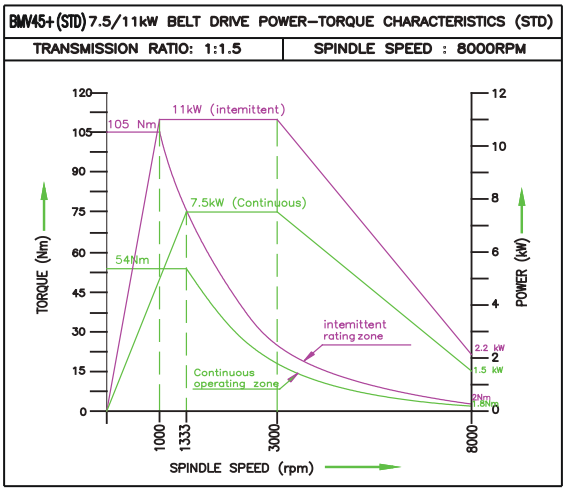
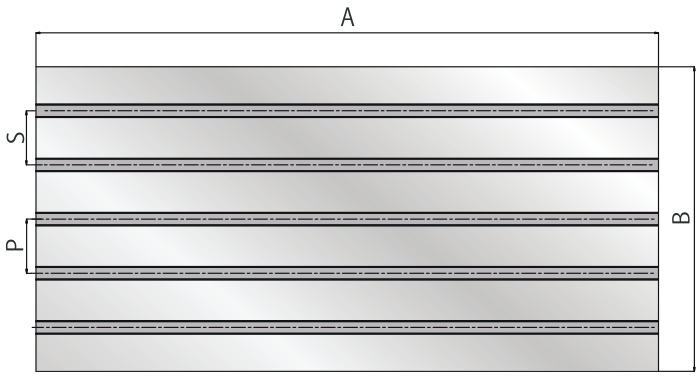


Table top Details

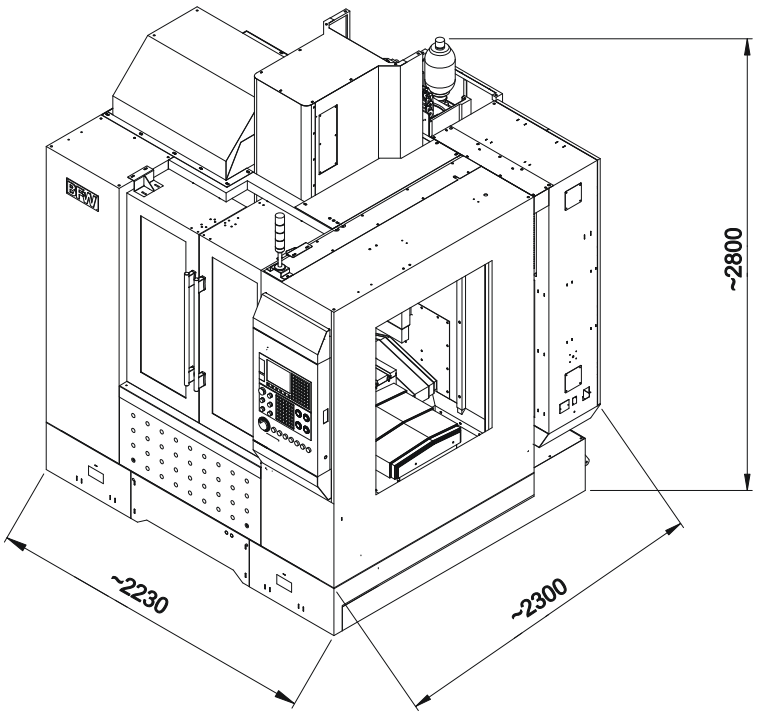


T-SLOT DETAILS

Model	Clamping Area		T-Slots	
	A	B	N	P
Table	1000	510	5	100
A & B	Length & Width of the Machine Table respectively			
P	CD between the T Slots			
N	No. of T Slots			
Size	18mm			

Machine Dimensions

(The machine image)



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Applications

Many more...

CNC Features & Functions

CNC FUNCTIONS	FANUC Oi MF+	Mitsubishi M80V
Display	10.4" colour LCD	10.4" colour LCD (touch type - Std.)
Maximum feed axes	5	5
Number of simultaneously controllable axis	4	4
Minimum input increment	0.01 mm, 0.001°	0.01 mm, 0.001°
Spindle speed function	5-digit S code	5-digit S code
Spindle speed override	S - 50-120% (in steps of 120%)	S - 50-120% (in steps of 10%)
Feed override	0-200% (in steps of 10%)	0-200% (in steps of 10%)
Feed rate command	4-digit F code	4-digit F code
Inch-mm conversion	S	S
Part program storage length	2 MB	2 MB
Number of part programs	400	1000
Number of sub-program call levels	10	10
Number of tool off sets	400	400
Program number/ sequence number search	S	S
Number of look-ahead function blocks	200	S - 2020
Single block, Exact stop, Dry run	S	S
DNC operations	PCMCIA / Embedded Ethernet	SD
Run hour and part count	S	S
Help function	S	S
Graphic display	S	S
Embedded ethernet, Front USB interface	S	S
Machining condition selection system	S	S
Remote diagnosis	S	NA
High speed skip or probe function	S	S
Dynamic graphic display, direct robot control	S	S
CNC FEATURES		
Linear interpolation	S	S
Circular interpolation	S	S
Helical Interpolation	S	S
Absolute/incremental programming	S	S
Tool radius compensation	S	S
Canned cycles for drilling and milling	S	S
Work plece co-ordinate system	54 pairs	54 pairs
Background editing	S	S
Backlash compensation	S	S
Pitch error compensation	S	S
Polar co-ordinate, Scaling, mirroring	S	S
History of operator alarma and messages	S	S
Look-ahead function	S	S
Custom macro B/ parameter programming	S	S
Simple tool life management	S	S
Multi language display	S	S
Program edit in CF card, Nano interpolation	S	S (* in SD / USB)
Manual pulse generator	S	S
Automatic dala backup	S	S
Cylindrical interpolation	S	S
Cutter compensation	S	S
4th axis : 3+1 AXES	O	O

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Technical Specifications

Technical Specifications "BMV50" (Standard.)	UOM	Description	
		BMV50 (S)	BMV50TC24 (S)
Traverses: X/Y/Z Axes	mm	800/510/510	
Distance from spindle face to table top (Std.)	mm	100-610	
Table Size	mm	1000 x 510	
T-Slot Specifications	Nos. / size / pitch	5/18/100'	
Max Allowable Load on Machine Table	kgs	600	
Machine Table Height from Floor	mm	950	
CNC Controller	-	Mitsubishi M80V* / Fanuc OiMF+**	
Spindle Taper	taper	BT40	
Speed	rpm	8000	
Power	kW	7.5/11 kW	
Tool Changing System	Type	WO ATC*	Twin arm type
Maximum Tool Dia with all filled pots	mm	NA	75
Maximum Tool Dia with adjacent pots empty	mm	NA	140
Maximum tool length	mm	NA	250
Maximum tool weight	kgs	NA	7
Tool change time	sec	NA	2.7
Rapid Traverse	mm / min	40 / 40 / 40	
Cutting Feed Rate	mm / min	1-10,000	
Positioning Accuracy (as per ISO 230-2)	mm	0.012	
Repeatability Accuracy (as per ISO 230-2)	mm	0.010'	
MACHINE INSTALLATION DATA			
Basic Machine Dimensions (Length x Depth x Height) - With Front Chip Disposal	mm	2230 x 2300 x 2800	
Basic Machine Dimensions (Length x Depth x Height) - With Rear Chip Disposal	mm	2230 x 3300 x 2800	
Machine Weight (Basic Machine)	kgs	4750	
Total Connected Load (Basic Machine)	kVA	28 (basic machine)	

* : WO ATC option available with M80V CNC only

** : V package available with OiMF+ CNC only

STANDARD FEATURES

- AC Servo Drives
- AC variable speed spindle motor
- Feedback through absolute encoder
- Automatic tool clamping and unclamping
- Telescopic covers with wipers
- Coolant gun, Air gun
- Ring coolant around spindle
- Air nozzle with M code
- 3 tier lamp
- Front chip disposal
- SS strip near loading area
- Mobile MPG
- Machine lamps
- Roller type LM guideways
- Hardened & Ground Ball Screws in all axes
- Centralised auto lubrication system
- Electronic counter balance
- Full machine guard (std colour)
- Machine manuals (soft copies)
- Ethernet port
- Maintenance tool kit
- Packing

OPTIONAL FEATURES / ACCESSORIES

- Readiness for 4th axis
- Rotary table
- Suitable tailstock
- Rear coolant tank in lieu of front
- Pull studs
- PCMCIA/SD card
- Panel AC
- Ethernet cable (L=10m)
- Hyd. Fixture interfacing provision

Network

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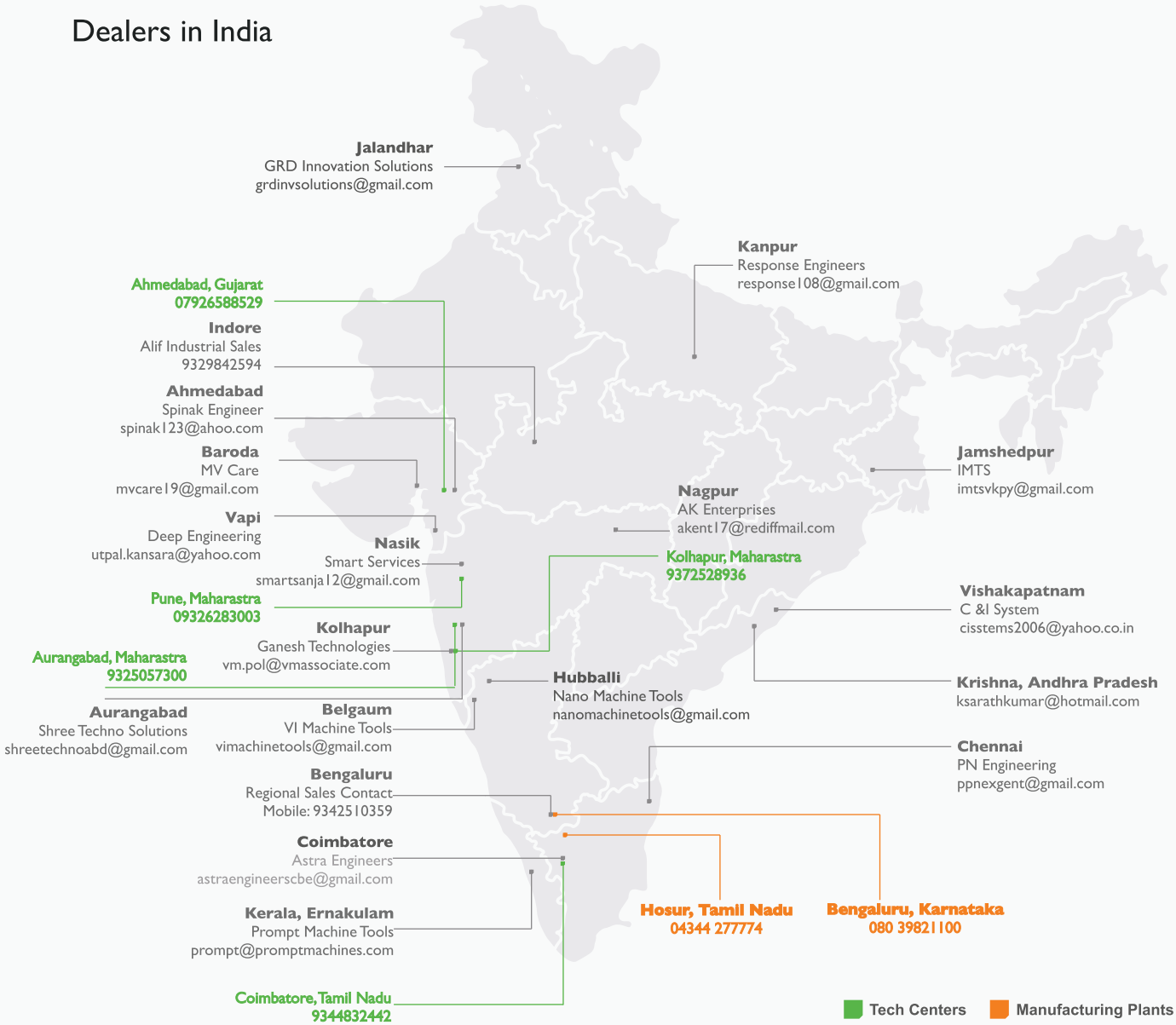

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