

BMV Pro
Standard



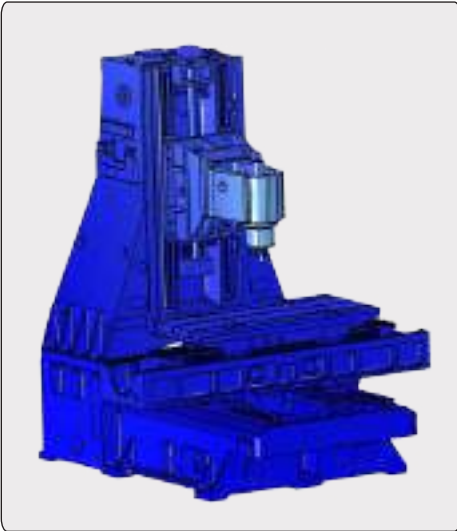
Enabled Efficient, Effective & Value Addition

Series: 9500 HS | 9500 HD



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BFW
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FEM Analysed Structures

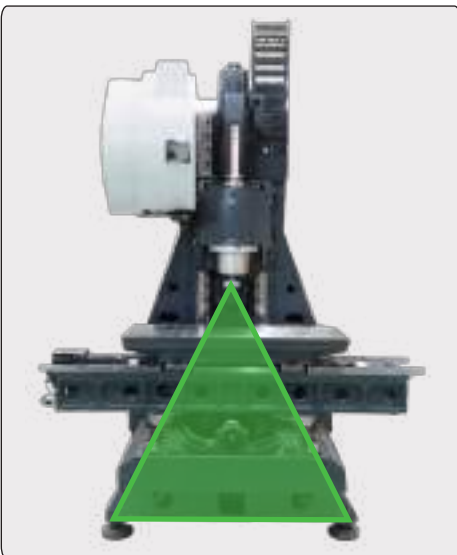
- Optimised weight to stiffness ratio
- Thermo symmetric, high dynamic structures
- The entire structure has been designed and tested by stringent FEM analysis for optimum performance

Next Generation Spindle

- 9500HD: Dia-80 heavy duty bearing
- 9500HS: Dia-70 high speed ceramic bearing
- Optimised bearings span

Stable Cutting Zone

- Lowest component loading height
- Wide angle base support
- Bigger size Y-axis LM guide ways
- Well distributed 6-No's base supports
- Optimised spindle throat length
- Wider Y-axis LM guide span
- Wide supported ribbed machine tabel

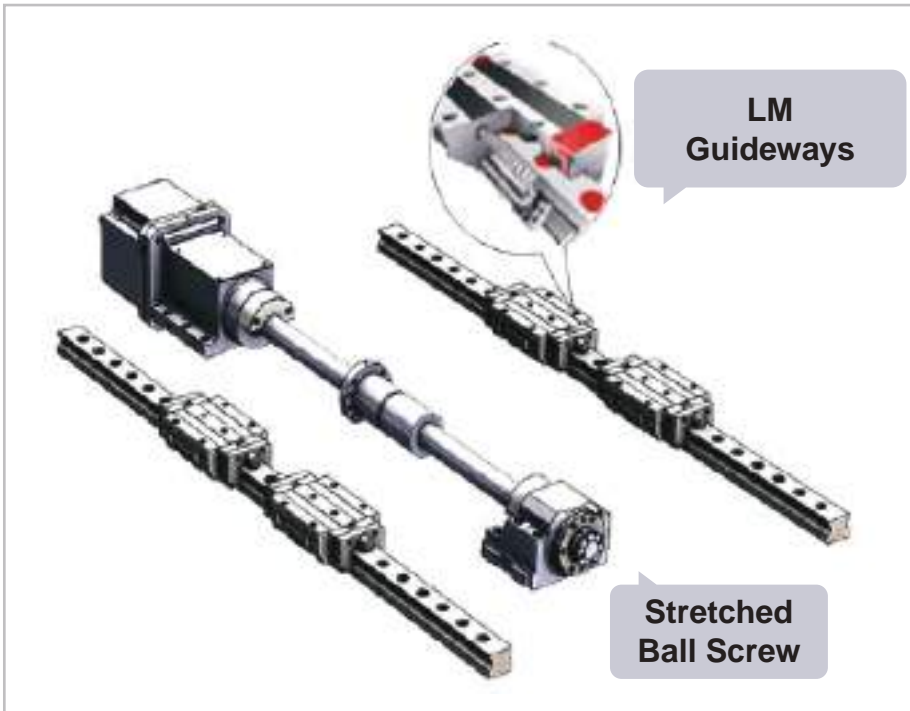


Wide Supported Column

- Column mounting on base **without spacers**
- Increased **column resting area**
- Column with **lowest height to width ratio**
- Structure design made out of graded cast iron, a column on a fixed rigid based with heavy cross ribbing dampens they effect of vibration
- Suitable for aerospace, automotive and die & mould segments



Precision



Roller Type LM Guides

- P Class high accuracy LM rails
- Flange type heavy duty LM blocks

Ball Screw

- C3 Class ground ball screw
- Ball screw stretching for all 3-axes

Reliability

Chip Protection Cover for ATC



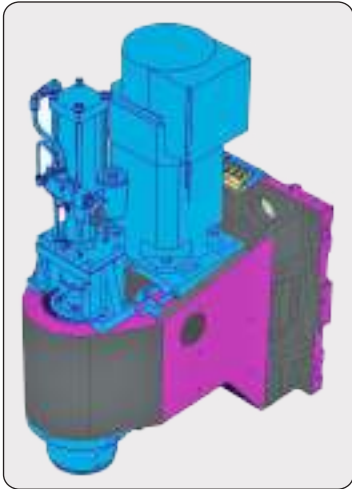
Single Sheet Cover for Y-axis



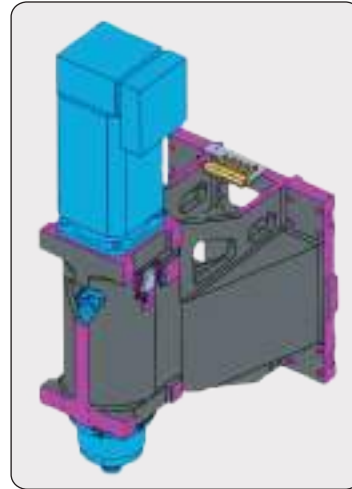
Compact Z-axis Lemalla Cover



Spindle Variants



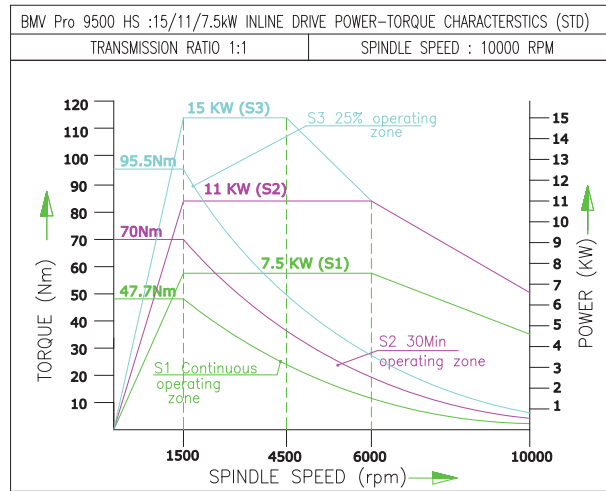
**9500 HD
Belt drive**



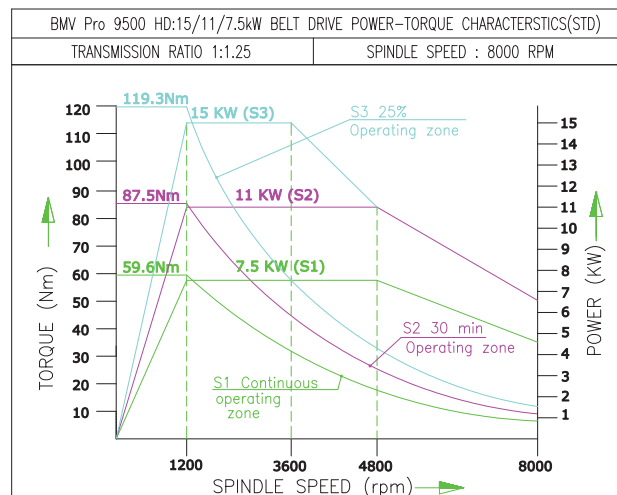
**9500 HS
In-line drive**

Spindle Characteristics

Inline Drive



Belt Drive



Technical Specifications

Capacity:		9500 HS		9500 HD	
Table longitudinal travel (X-axis)	mm	900			
Table cross travel (Y - axis)	mm	500			
Head stock travel (Z - axis)	mm	500			
Spindle nose face to table top	mm	100 - 600			
Distance from(Spindle Center to Column front)	mm	525			
Distance from floor to table	mm	950			
Table:					
Table size	mm	510 x 1100			
T - slot (No./ size/ pitch) mm	mm	3/18/165			
Maximum load on table standard	kg	500	900		
Axes					
Rapid traverse X/ Y/ Z Axis	m/ min	48/48/48	40/40/40		
Accelerations-X/ Y/ Z Axis	m/ min	1G/1G/1G	0.8G/0.8G/0.8G		
Feed rate	mm/ min	1-20000	1-10000		
Spindle Drive: STD		Inline Drive	Belt Drive		
Spindle Taper	Type	BBT-40	BBT-40		
Power: Mitsubishi: S3/ S2 (30 min)/ Continuous	kW	15/ 11/ 7.5	15/ 11/ 7.5		
Max speed: Std (option)	rpm	10,000	8000		
Automatic Tool Changer: Twin Arm					
Tool change arm length	mm	225	265		
Tool change time (Tool to Tool)	Sec	2.2	2.42		
Tool change time (Chip to Chip)	Sec	3.5	4.5		
Tool change system	Nos	24	24		
Pull stud-MAS 403	Type	P40 T-1	P40 T-1	P40 T-1	P40 T-1
Maximum tool with all pocket full	mm	75			
Max tool dia adjacent pockets empty	mm	125	140		
Max tool length	mm	250			
Max tool weight	kgs	7			
Accuracy as per ISO-230-2					
Positioning Accuracy	mm	0.01			
Repeatability Accuracy	mm	0.008			
Installation Data					
Floor Space (W x D)	mmxmm	2400x2200			
Machine height (H) (Z-Full stroke upwards)	mm	2600			
Basic machine weight (Apprx.)	kgs	5000			
Total Connected load (Basic Machine)	KVA	26	22		

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

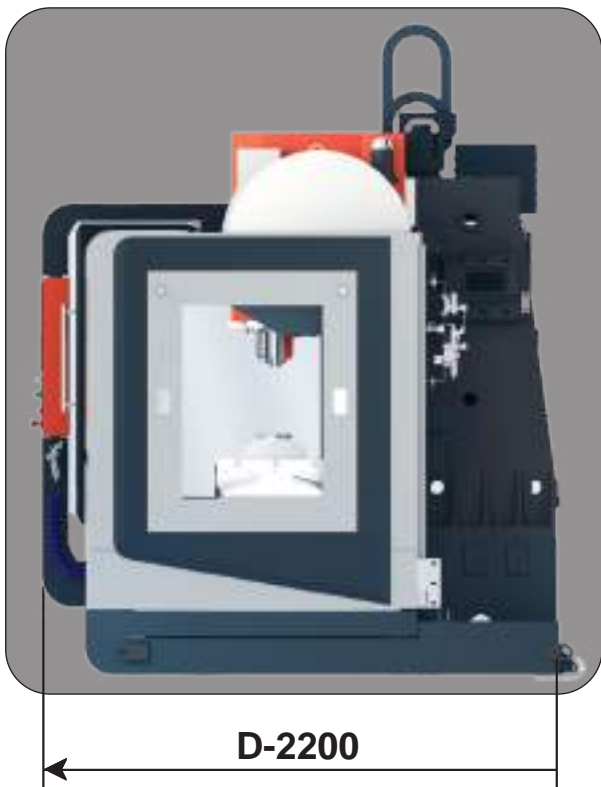
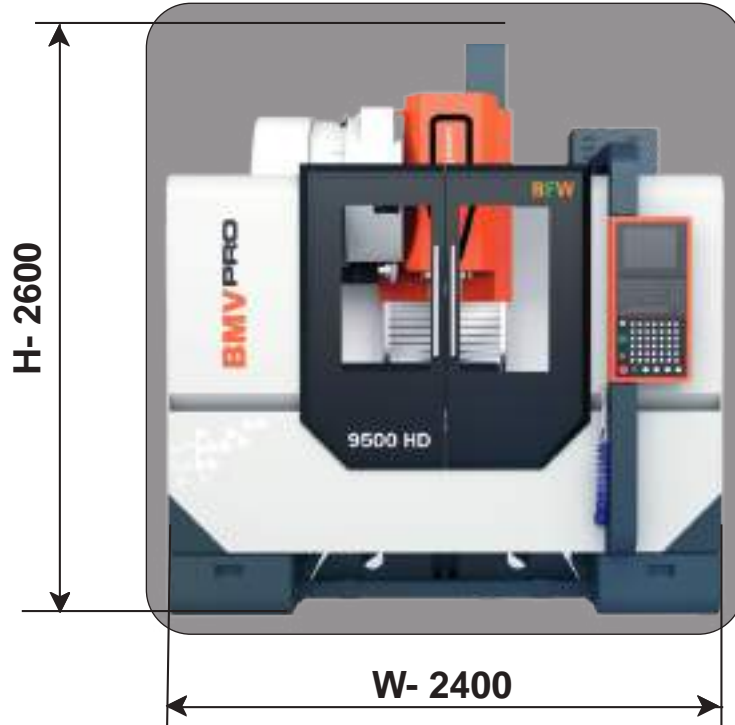
- Readiness for 4th axis
- Rotary table
- Suitable tailstock
- Rear coolant tank in lieu of front
- Pull studs
- PCMCIA/SD card
- Ethernet cable (L=10m)
- Hyd. Fixture interfacing provision

CNC FUNCTIONS	
Features	Mitsubishi M80V
Display	10.4" color LCD
Maximum feed axes	5
Number of simultaneously controllable axis	4
Minimum input increment	0.0001 mm, 0.0001 deg
Spindle speed function	5-digit S code
Spindle speed override	50-120% (in steps of 10%)
Feed override	0-200 %
Feed rate command	4-digit F code
Inch- mm conversion	S
Part program storage length	2MB
Number of part programs	
Number of sub-program call levells	10
Single block, Exact stop, Dry run	S
DNC operations	RS232C/SD
Run hour and part count	S
Help function, Graphic display	S
Embedded ethernet, Front USB interface	S
Fast ethernet/ data server	S
Machining condition selection system	S
High speed skip or probe function	S
Dynamic graphic display, Direct robot control	S
Built in WLAN & Screen Monitoring. QR code machining	S
Multi touch gesture, Cutting Load Control	S
Image input interference, 3D machining solution	S
Parameter adjust Screen for High Accuracy Control	S
CNC FEATURES	
Linear, Circular & Helical interpolation	S
Absolute/ incremental programming	S
Tool radius compensation	S
Canned cycles for drilling and milling	S
Work piece co-ordinate system	54 pairs
Background editing, Backlash compensation	S
Pitch error, Bi-directional pitch error compensation	S
Polar co-ordinate, Scaling, mirroring	S
History of operator alarms and messages	S
Look-ahead function	2020 STD
Custom macro B/ parameter programming	S
Simple tool life management, Multi language display	S
Program restart/ block search in CF card	S (in SD / USB)
Program edit in CF card	S (in SD / USB)
Nano interpolation, Manual pulse generator	S
Automatic data backup, Cutter compensation	S
Cylindrical interpolation, Spline interpolation - 2	S
Tool Cutting point Control for 5 axis machining	S
Machining program management, OMR- CC	S
4th axis 4th 5th axis	O



- Mitsubishi latest controller
- CNC control - M80V
- Smart Machine Control
- Faster cycle time
- Fine surface finish
- 10.4" touch -type monitor as standard
- WiFi enabled - wireless LAN network
- Conversational program - interactive Cycle
- Higher block processing - 2020 blocks look ahead
- SSS function - Super Surface Smooth function
- Jerk control - Minimize vibration by acc control
- Machining condition selection
- Part program storage - 2MB
- Dedicated CPU
- Improved cutting OMR-CC
- Data Server - 4GB
- Smart CLC - Smart cutting Load Control
- Bar code Engraving
- Smart Touch Gesture - Pinch in/out scrolling
- Smart machining adjustment

Coolant tank Variants



**Front Chip Disposal
Coolant Tank with Chip Tray**



**Rear Chip Disposal Coolant
with Chip tray**

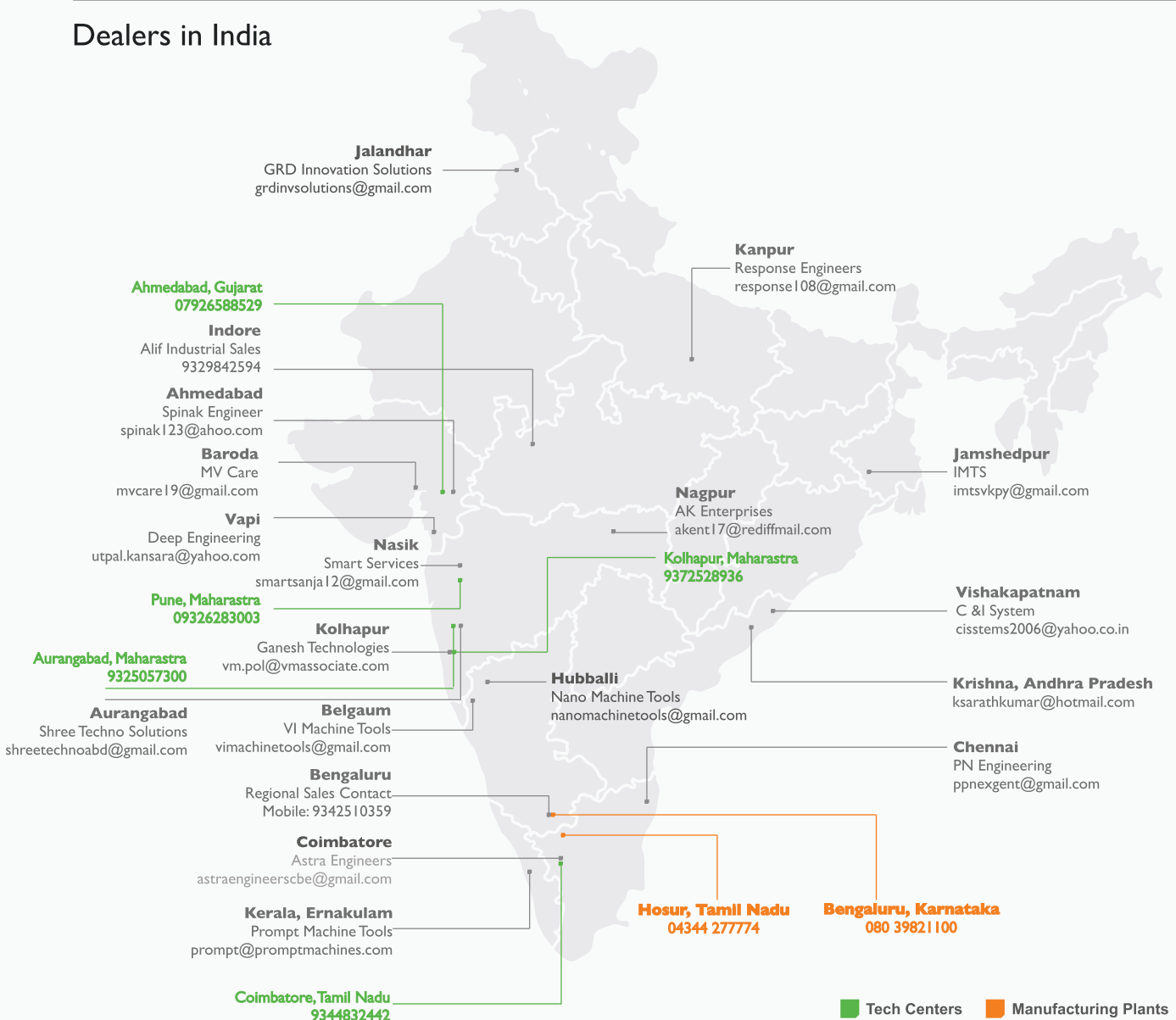


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