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AGENT



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# VH8 VH10

## Vertical Machining Center Precision Component Processing

## Various Spindle Selections

**Direct transmission** BBT40 10000/12000/15000  
 Spindle inner diameter 70mm  
 Spindle outer diameter 150mm

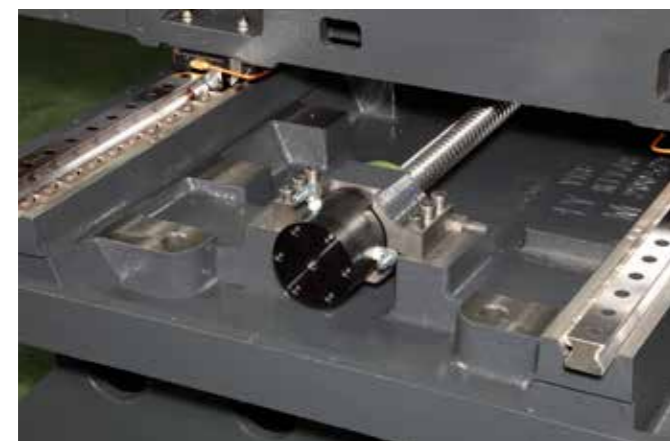
**Belt transmission** BBT40 10000/12000  
 Spindle inner diameter 70mm  
 Spindle outer diameter 150mm



## Heavy Loading Linear Guideway

	VH8			VH10		
	X	Y	Z	X	Y	Z
Guideway Width mm	35	35	45	35	35	45
Guideway Quantity	2	2	2	2	2	2
Slider Quantity	4	4	4	4	4	4
Slider Size mm (L*W*H)	153.5*70*55	153.5*100*48	189.4*86*70	153.5*70*55	153.5*100*48	189.4*86*70

Using heavy loading linear guideway and enlarged slider blocks to enhance machine rigidity



## Three Axes Ballscrew with Coolant Circuit

X/Y/Z three axes use ballscrew with coolant circuit, avoid the hot deformation of ballscrew.

## Solid and High Rigidity Structure of Body

Base use box-structure, base, saddle, worktable, spindle head and column are enhanced by the ribs structure to improve machine rigidity and accuracy, avoid the machine deformation.

Five major MEEHANITE castings are molded processed, heat-treated and ground in Taiwan.



## Strengthening Support of Machine Base

The machine base is supported by nine points of leveling pads and bolts.

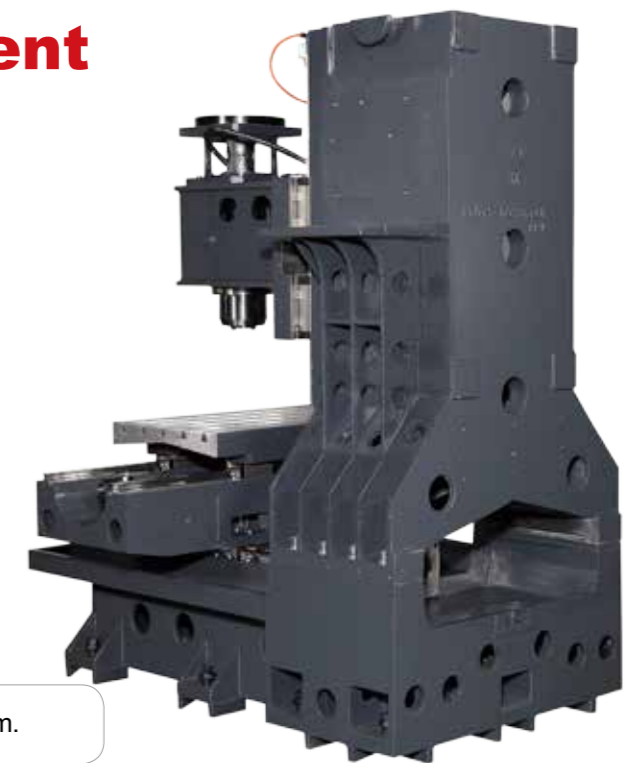
## Precision Component Processing

Three axes positioning accuracy within 0.0006  
 Three axes repetitive positioning accuracy within 0.0004

## Dual Screw Chip Conveyor

Using dual screws chip conveyor could clean the leaking of the base.

Using environmental automatic grease lubrication system.





## ▶ VH Series Machine Specification

Model	Unit	VH8			VH10		
<b>TRAVEL</b>							
X/Y/Z Axes Travel	mm	850/520/580			1020/520/580		
Spindle Nose to Table	mm	100-680			100-680		
Spindle Center to Column	mm	600			600		
Types of Guideway(X/Y/Z)		Roller linear/ Roller linear/ Roller linear			Roller linear/ Roller linear/ Roller linear		
Width of Linear Guideway(X/Y/Z)	mm	35/35/45			35/35/45		
Slider Quantity (X/Y/Z)		4/4/4			4/4/4		
<b>TABLE</b>							
Table Size	mm	950*520			1150x520		
T-Slot Size	mm	18x5x100			18x5x100		
Max. Table Load	kgs	600			600		
<b>SPINDLE</b>							
Spindle Transmission		Belt type	Direct type	Direct type	Belt type	Direct type	Direct type
Spindle Taper		BBT-40	BBT-40	BBT-40	BBT-40	BBT-40	BBT-40
Spindle Speed	rpm	10000/12000	10000/12000	15000	10000/12000	10000/12000	15000
Spindle Motor (cont./30mins)	kw	7.5/11kw (11/15kw)	7.5/11kw (11/15kw)	7.5/11kw (15/18.5kw)	7.5/11kw (11/15kw)	7.5/11kw (11/15kw)	7.5/11kw (15/18.5kw)
<b>CUTTING FEED RATE</b>							
X/Y/Z Rapid Travel Rate	m/min	48/48/32、36/36/24( $\beta$ motor)			48/48/32、36/36/24( $\beta$ motor)		
X/Y/Z Cutting Feed Rate	m/min	1-15 m/min			1-15 m/min		
<b>A.T.C</b>							
Tool Change Method		Cam Driven arm type			Cam Driven arm type		
Tool Change Method	set	24(30/36)			24(30/36)		
Tool Change Time (Tool to Tool)	sec	2.0			2.0		
Max. Tool Diameter	mm	75/150			75/150		
Max. Tool Length	mm	250			250		
Max. Tool Weigh	kgs	7			7		
<b>ACCURACY STANDARD VDI3441</b>							
Positioning Accuracy	mm	0.006			0.006		
Repetitive Positioning	mm	0.004			0.004		
Ball-Bar Accuracy	mm	0.01/300			0.01/300		
<b>ACCESSORY EQUIPMENT</b>							
Spindle Coolant Ability	kcal	840/1250	840/1250	2600	840/1250	840/1250	2600
Cutting Coolant Pump	w	1270*2			1270*2		
Grease System Pump	w	60			60		
<b>OTHERS</b>							
Air Pressure Requirement	kgs/cm <sup>2</sup>	6			6		
Electric Power Requirement	kva	25			25		
Machine Weight (Approx)	kgs	5200			5350		

## ▶ Accessories

Standard Accessories

- MITSUBISHI M80B CNC
- 10.4" LCD screen
- Magazine Capacity : 24
- Fully enclosed splash guard
- Dual screws chip conveyor for Y-axis
- Three axes telescopic covers
- Heat exchanger for electric cabinet
- Spindle oil coolant system
- Cutting coolant system
- Spindle air blast system(Automatic controlled byM07 program)
- Chips flushing system on both sides
- 3-axes auto lubrication system
- Removable MPG
- Leveling pads and bolts
- Tri-color indicating light
- Air/water gun for chip remove
- Auto power off(M30)
- RS232C interface
- Tool box and adjustment tools
- Accuracy inspection report
- Machine operating and maintenance manual
- E-book of controller program operating and maintenance manual

Optional Accessories

- MITSUBISHI M80A CNC
- 15" LCD screen
- Independent water pump for water gun
- Oil coolant device of deep drilling
- Chain or scrape plate type chip conveyor
- Air conditioner for electric cabinet
- CNC 4th axis rotary table
- Auto tool length measurement
- Auto workpiece measurement
- Three axes linear scale
- Oil mist collector
- Disc type oil skimmer
- 20/30/70 Bar C.T.S and external filtration tank
- 20/30/70 Bar C.T.S with paper filter
- Transformer (380V)
- 30/36 tool magazine capacity

### NOTE:

1. Standard controller: MITSUBISHI. Depend in customer's demand can choose FANUC or SIEMENS series.
2. LEADYANG reserves the right to change the design. And the above specification are subject to change without notice.

3. Above accuracy value is in accordance with new machine and standard inspection status of the test data.
4. Depends on customer's request, the column can be heightened 150-200mm