



**High Stability, High Rigidity
Inventive & Intelligent Creation**



QUALITY COMES FROM CONFIGURATION, SERVICE COMES FROM HEART

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DONGGUAN BAOKE PRECISION MACHINERY CO., LTD.

VP Series High Speed High Precision Machining Center

- Fully-supported box-type base structure, Y axis is above to X axis, to ensure the table always maintains full support in whole machining range of X/Y axis, and to avoid the overhang problem when table moves to far left or right.
- The machine bed dimensions such as the span of 3 axis linear guideway, sliders distance, the distance from spindle center to Z-axis guideway surface, etc., all strictly follow 1:1 ultra-wide and ultra-large structure with the equidistant distance between action point and support point.



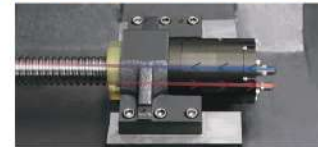
Standard configuration

- | | |
|------------------------------|---------------------------------------|
| ► Workpiece blowing system | ► Heat exchanger |
| ► Tool chip flushing system | ► Guideway protection cover |
| ► Central lubrication system | ► Dual screw+chain type chip conveyor |
| ► Spindle oil coolant | ► Alarming light |
| ► Handwheel | ► Working light |

Option

- | | |
|---|------------------------------|
| ► BBT40-15000RPM direct drive spindle | ► BT50-24T/30T tool magazine |
| ► BBT50-10000RPM direct drive spindle | ► Coolant through spindle |
| ► HSK-A63-15000RPM direct drive spindle | |
| ► BT40-24T/30T tool magazine | |
| ► HSK-A63-24T/30T tool magazine | |

Two-sides fully-supported box-type base structure



Ball screw thermal expansion suppression system (optional)

The large-diameter ball screw is hollow in design, and the constant-temperature cooling oil is sent to ball screw from the inner tube. The tail end returns and discharges the heat generated by ballscrew movement. Long-term processing will not cause the center of workpiece to drift due to thermal expansion.

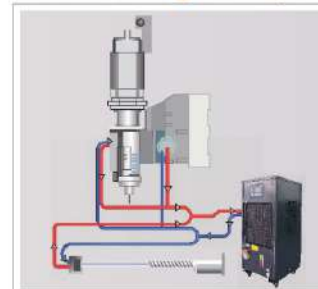


X/Z axis roller linear guideway with 3 sliders

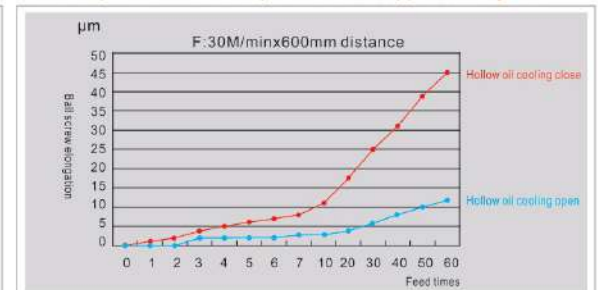
Ensure the large load-bearing capacity of worktable and the cutting rigidity of Z-axis



Innovative design concept servo axis and spindle thermal temperature rise suppression system



Spindle and 3 axis ball screw cooling device



Comparison table of positioning accuracy with ball screw cooling device and without ball screw cooling device

VP series high-speed and high-precision machining center

Item	Unit	BF-650VP	BF-855VP	BF-1166VP	BF-1370VP
Travel					
X axis travel	mm	600	800	1100	1300
Y axis travel	mm	500	550	660	700
Z axis travel	mm	500	550	600	700
Spindle nose to table surface	mm	130-630	130-680	130-730	155-855
Spindle center to column	mm	520	622	710	755
Worktable					
Table size	mm	720X450	900X550	1250X650	1450X700
Max.worktable load	kg	400	800	1100	1500
Dimension of T-slot	mm	5-18X80	5-18x100	6-18X100	5-18x152
CNC controller					
Standard controller (FANUC)		0i-MF Plus			
Standard controller (Mitsubishi)		M80A			
Standard controller (Siemens)		828D SW28x			
Spindle					
Drive type		Direct Drive			
Spindle speed	rpm	12000			
Spindle taper		BBT40			
Spindle motor power (FANUC)	kW	11/15/18.5	15/18.5		
Spindle motor torque (FANUC)	Nm	52.5/95.5/118	95.5/118/159/191		
Spindle motor power (Mitsubishi)	kW	11/15/18.5	15/18.5		
Spindle motor torque (Mitsubishi)	Nm	22.5/64	77.8/106/118		
Spindle motor power (Siemens)	kW	9/17.1/21.2	15		
Spindle motor torque (Siemens)	Nm	57/108/135	96/143/240		
Axis					
Axis feed motor-X/Y/Z(FANUC)	kW	3.0/3.0/3.0			
Axis feed motor-X/Y/Z(Mitsubishi)	kW	3.0/3.0/3.0	3.0/3.0/4.5		
Axis feed motor-X/Y/Z(Siemens)	kW	2.9/2.9/3.55	5.5/5.5/5.5		
Axis torque-X/Y/Z(FANUC)	Nm	20/45	20/45		
Axis torque-X/Y/Z(Mitsubishi)	Nm	22.5/64	XY:22.5/64--Z:37.2/90		
Axis torque-X/Y/Z(Siemens)	Nm	22/66	30	30/90	
Rapid feed rate-X/Y/Z(FANUC)	m/min	30/30/30	30/30/30		
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	30/30/30	30/30/30		
Rapid feed rate-X/Y/Z(Siemens)	m/min	30/30/30	24/24/24	30/30/30	24/24/24
Accuracy					
Positioning accuracy(bi-direction)	mm	0.003/300			
Repeat positioning	mm	0.002/300			
Machine					
Air pressure	kg/cm²	6-7bar			
Machine dimension (Length)	mm	2200	2600	3310	3235
(Width)	mm	2780	2800	3360	3300
(Height)	mm	2730	3030	3100	3300
Machine weight	kg	4500	6000	8000	10500

V series linear way machining center

Item	Unit	BF-V6	BF-V8	BF-858V	BF-V10	BF-V11	BF-1168V	BF-V13
Travel								
X axis travel	mm	600	800	850	1000	1150	1100	1300
Y axis travel	mm	500	550	550	600	650		750
Z axis travel	mm	500	550	800	600	650	800	700
Spindle nose to table surface	mm	130-630	130-680	130-930	110-710	130-780	130-930	120-820
Spindle center to column	mm	520	570		610	658		770
Worktable								
Table size	mm	720×450	900X500		1100x600	1200x650	1200X600	1450x700
Max.worktable load	kg	400	600		700	900		1000
Dimension of T-slot	mm	5-18x90	5-18x100				5-18x125	
CNC controller								
Standard controller (FANUC)		0i-MF Plus						
Standard controller (Mitsubishi)		M80						
Standard controller (Siemens)		828D SW28x						
Spindle								
Drive type		Direct Drive						
Spindle speed	rpm	12000						
Spindle taper		BBT40						
Spindle motor power (FANUC)	kW	11/15						15/18.5
Spindle motor torque (FANUC)	Nm	52.5/95.5/118						95.5/159/191
Spindle motor power (Mitsubishi)	kW	11/15						15/18.5
Spindle motor torque (Mitsubishi)	Nm	52.5/95.5/118						77.8/106/118
Spindle motor power (Siemens)	kW	9/17.1						20
Spindle motor torque (Siemens)	Nm	57/108/135						96
Axis								
Axis feed motor-X/Y/Z(FANUC)	kW	3.0/3.0/3.0						
Axis feed motor-X/Y/Z(Mitsubishi)	kW	3.0/3.0/3.0						4.5/4.5/4.5
Axis feed motor-X/Y/Z(Siemens)	kW	2.9/2.9/3.55						5.5/5.5/5.5
Axis torque-X/Y/Z(FANUC)	Nm	20/45						XY:20/45 Z:36/90
Axis torque-X/Y/Z(Mitsubishi)	Nm	22.5/64						37.2/90
Axis torque-X/Y/Z(Siemens)	Nm	22/66						30
Rapid feed rate-X/Y/Z(FANUC)	m/min	48/48/48			36/36/36			30/30/30
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	48/48/48			36/36/36			30/30/30
Rapid feed rate-X/Y/Z(Siemens)	m/min	48/48/48			36/36/36			30/30/30
Accuracy								
Positioning accuracy(bi-direction)	mm	0.003/300		0.005/300	0.003/300		0.005/300	
Repeat positioning	mm	0.002/300		0.003/300	0.002/300		0.003/300	
Machine								
Air pressure	kg/cm²	6-7bar						
Machine dimension (Length)	mm	2200	2600	2790	3100	3200	3170	3500
(Width)	mm	2775	2750	2600	2700	2810	3200	3600
(Height)	mm	2730	3030	3160	3000	3290	3300	3100
Machine weight	kg	4500	5100	5800	6800	7000	7500	8000