



**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.

V Series Linear Guideway Machining Center

► This series of models adopt a high-rigidity structure supported by a large span, high precision linear guideway and ball screw design with locking preload is for X/Y/Z axis, it is fast, strong, and stable processing performance, that is suitable for high-precision parts and mold processing. It can be widely used in automobiles, machinery, instrumentation, textiles, and electronic instrument industries.



Larger and wider span herringbone design

The interior adopts dense and thickened rib arrangement, compared with ordinary columns, the body's rigidity, torsion resistance and bending resistance are enhanced. The contact area with the base is increased, the processing more stable accordingly.



Standard configuration

- Workpiece blowing system
- Tool Chip flushing system
- Central lubrication system
- Spindle oil coolant
- Handwheel
- Heat exchanger
- Guideway protection cover
- Full enclosed metal cover
- Alarming light
- Working light

Option

- BBT40-15000rpm direct drive spindle
- HSK-A63-15000rpm direct drive spindle
- BT40-24T/30T disc type tool magazine
- HSK-A63-24T/30T disc type tool magazine
- Coolant through spindle
- Dual screw + chain type chip conveyor



Y-axis has 4 linear guideway
X-axis support is more stable, it can improve processing stability.



X-axis and Z-axis use the linear guideway with 3 sliders
Ensure the large load capacity of worktable and cutting rigidity of the Z-axis.

V Series Linear Guideway Machining Center

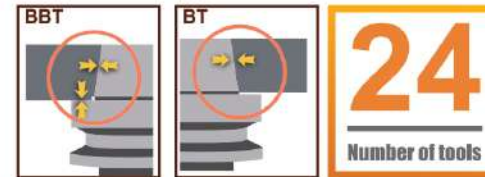
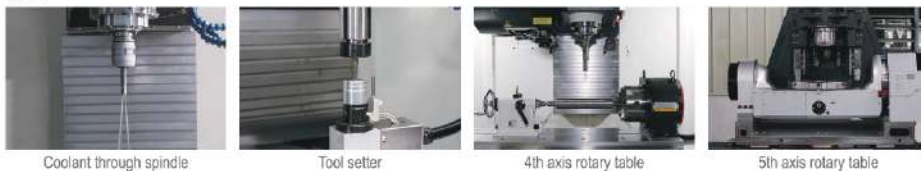
- ▶ Direct drive BBT40-12000rpm, high speed and high rigidity spindle.
- ▶ The machine structure uses Finite Element Analysis (FEA) to optimize the structural design.
- ▶ All parts are made of HT300 high-grade castings, after in-mold 48H thermal insulation + high-temperature annealing stress relief treatment, it is to ensure rigidity and stable precision.



Standard configuration

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> ▶ Workpiece blowing system ▶ Tool Chip flushing system ▶ Central lubrication system ▶ Spindle oil coolant | <ul style="list-style-type: none"> ▶ Handwheel ▶ Heat exchanger ▶ Chip flushing system ▶ BT40-24T Arm type tool magazine | <ul style="list-style-type: none"> ▶ Guideway protection cover ▶ Full enclosed metal cover ▶ Alarming light ▶ Working light |
|--|--|---|

Option



The difference between BBT and BT
BBT is bonded on both sides, providing high rigidity and low vibration during high-speed rotation.



Standard configuration

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> ▶ Workpiece blowing system ▶ Tool Chip flushing system ▶ Central lubrication system ▶ Spindle oil coolant | <ul style="list-style-type: none"> ▶ Handwheel ▶ Heat exchanger ▶ BT40-24T arm type tool magazine ▶ Guideway protection cover | <ul style="list-style-type: none"> ▶ Full enclosed metal cover ▶ Alarming light ▶ Working light |
|--|---|--|

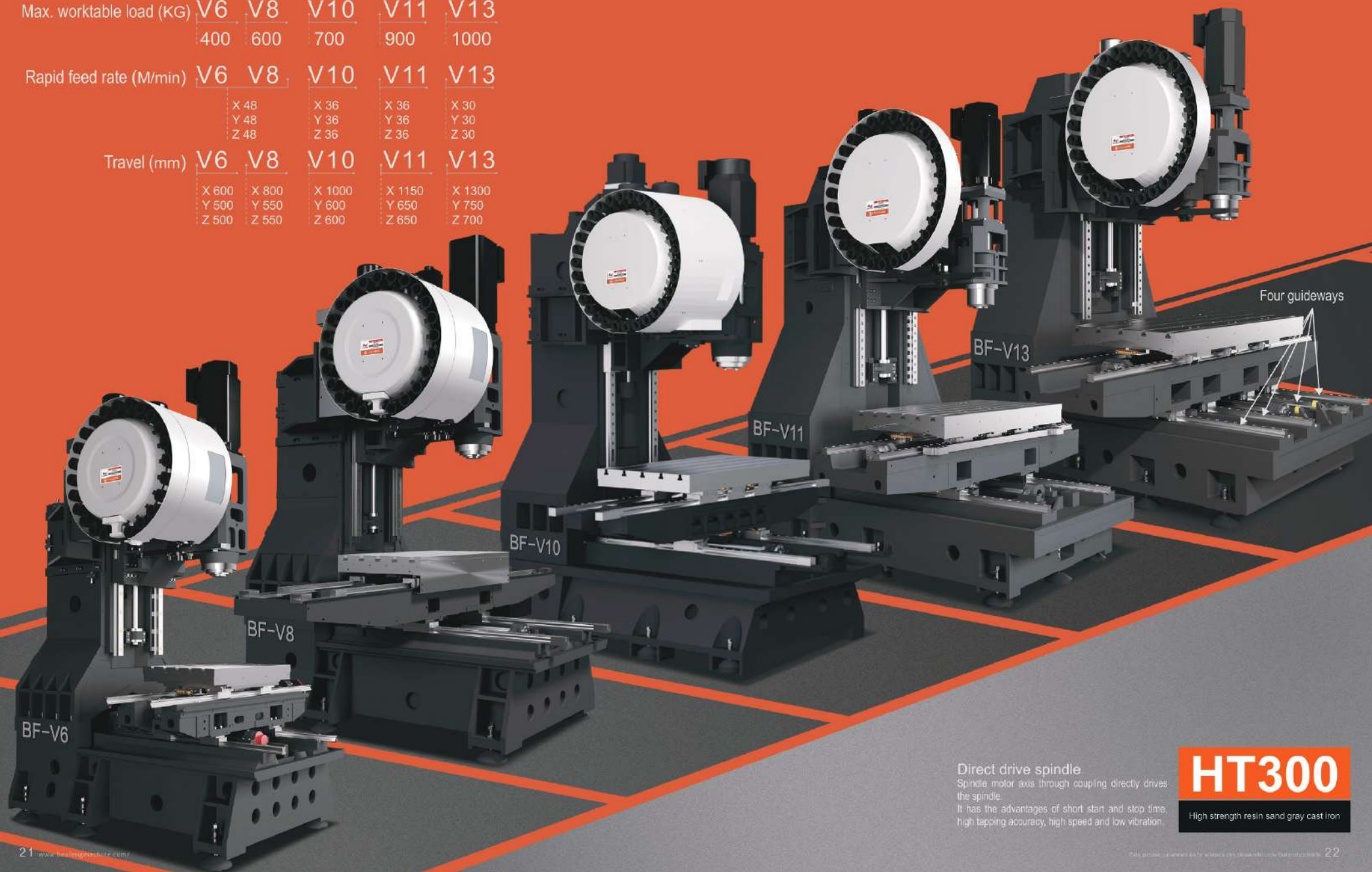
Option



Max. worktable load (KG)	V6	V8	V10	V11	V13
	400	600	700	900	1000

Rapid feed rate (M/min)	V6	V8	V10	V11	V13
	X 48	X 36	X 36	X 30	X 30
	Y 48	Y 36	Y 36	Y 30	Y 30
	Z 48	Z 36	Z 36	Z 30	Z 30

Travel (mm)	V6	V8	V10	V11	V13
	X 600	X 800	X 1000	X 1150	X 1300
	Y 500	Y 550	Y 600	Y 650	Y 750
	Z 500	Z 550	Z 600	Z 650	Z 700



Direct drive spindle

Spindle motor axis through coupling directly drives the spindle. It has the advantages of short start and stop time, high tapping accuracy, high speed and low vibration.

HT300

High strength resin sand gray cast iron

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