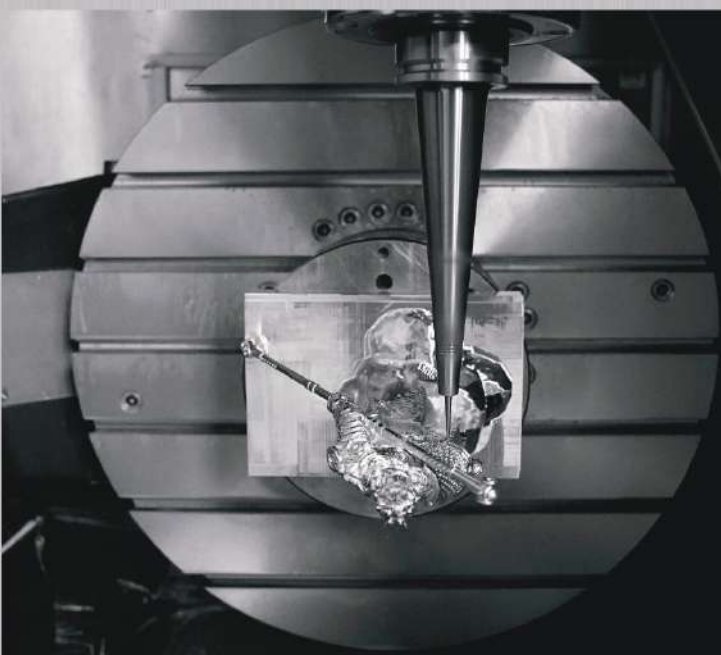




**High Stability, High Rigidity
Inventive & Intelligent Creation**



QUALITY COMES FROM CONFIGURATION, SERVICE COMES FROM HEART

DONGGUAN BAOKE PRECISION MACHINERY CO., LTD.
BAOFENG PRECISION MACHINERY(GUANGDONG)CO., LTD.
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DONGGUAN BAOKE PRECISION MACHINERY CO., LTD.

High Speed High Precision Horizontal Machining Center



- ▶ T-base, full support structure for each axis.
- ▶ Large capacity tool magazine, high machining adaptability.
- ▶ Single worktable or dual pallets changer for option.
- ▶ Fully automatic chip removal to reduce cleaning downtime.
- ▶ Super wide range of processing, suitable for machining all kinds of mechanical parts.



- Standard positive T-type structure.
- Gear-driven high-torque spindle.
- Large capacity tool magazine.
- Dual pallets changer

Standard configuration

▶ Workpiece blowing system	▶ Spindle oil coolant	▶ Guideway protection cover	▶ Working light	▶ Dual screw + chain type chip conveyor
▶ Cutting fluid cooling system	▶ Handwheel	▶ Full enclosed metal cover	▶ Automatic chip removal system	▶ BT50-30T tool magazine
▶ Central lubrication system	▶ Heat exchanger	▶ Alarming light	▶ 630x630 dual pallet exchanger	▶ Safe door



The X-axis parallel rail adopts step distribution to enhance the rigidity of the column when cutting in the Z-axis direction.



The base adopts large screw support to ensure the stability of the whole machine. The key parts have passed finite element analysis to ensure the stability and rigidity of the mechanism.



The column adopts large triangular structure design, which provides better vibration resistance and smoother machining.



Linear way horizontal machining center

Item	Unit	BF-H50	BF-H6363	BF-H80	BF-H8080	BF-2516VH
Travel						
X axis travel	mm	1100	1300		1500	2600
Y axis travel	mm	750	850	900	1450	1600
Z axis travel	mm	620	950	1100	1200	1400
Spindle nose to table surface	mm	130-750	130-1080	220-1320	400-1600	250-1650
Spindle center to column	mm	30-780	50-900	0-950	0-1450	125-1725
Worktable						
Rotary table size	mm	500X500	630X630	800X800		1000X1000
Max.worktable load	kg	600	1200	2000		4000
Dimension of T-slot	mm	5-18X100	—	7-18X100	—	9-22X100
CNC controller						
Standard controller (FANUC)		0i-MF Plus				
Standard controller (Mitsubishi)		M80B				
Standard controller (Siemens)		828D				
Spindle						
Drive type		Direct Drive	Belt Drive		Gear Drive	
Spindle speed	rpm	12000	6000			
Spindle taper		BBT40	BT50-190-45°		BT50-45°	BT50
Spindle motor power (FANUC)	kW	11/15	15/18.5		22/26	
Spindle motor torque (FANUC)	Nm	52.5/95.5/118	143/191/236		140/166/223/286	
Spindle motor power (Mitsubishi)	kW	11/15/18.5	15/18.5		22/26	
Spindle motor torque (Mitsubishi)	Nm	52.5/95.5/118	143/191/236		140/166/223	
Spindle motor power (Siemens)	kW	9/17.1/21.2	17/32.3/42.4		22	22/41.8/59.7
Spindle motor torque (Siemens)	Nm	57/108/135	162/308/405		140	140/266/380
Axis						
Axis feed motor-X/Y/Z/B(FANUC)	kW	3.0/3.0/3.0/3.0	3.0/3.0/3.0/3.0/3.0	3.0/3.0/3.0/3.0	7/4/7/3/3	6.0/7.0/6.0
Axis feed motor-X/Y/Z/B(Mitsubishi)	kW	3.0/3.0/3.0/2.0	7.0/7.0/7.0/3.0/3.0	7.7/7.7/7.7/3.0	7/7/7/3/3	7.0/7.0/7.0/3.0
Axis feed motor-X/Y/Z/B(Siemens)	kW	2.9/3.55/2.9/3.05	7.7/7.7/7.7/2.9/2.9	7.7/7.7/7.7/2.9	7.7/7.7/7.7/2.9/2.9	7.7/7.7/7.7/3.14
Axis torque-X/Y/Z(FANUC)	Nm	20/45	36/50	36/90	/	XZ:38/130 Y:30/83
Axis torque-X/Y/Z(Mitsubishi)	Nm	22.5/64	45/130		/	45/130
Axis torque-X/Y/Z(Siemens)	Nm	22/66	48/150		/	48/150
Rapid feed rate-X/Y/Z(FANUC)	m/min	36/36/36	24/24/24			15/15/15
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	36/36/36	24/24/24			15/15/15
Rapid feed rate-X/Y/Z(Siemens)	m/min	36/36/36	24/24/24			15/15/15
Accuracy						
Positioning accuracy(bi-direction)	mm	0.003/300	0.005/300			
Repeat positioning	mm	0.002/300	0.003/300			
Machine						
Air pressure	kg/cm²	6-7bar				
Machine dimension (Length)	mm	3500	6800	6500	6000	6900
(Width)	mm	4600	4300	4150	3200	5750
(Height)	mm	3100	3370	3520	3900	4330
Machine weight	kg	7500	15000	16500	18500	28000

Heavy cutting horizontal machining center

Item	Unit	BF-LW1290	BF-1814L
Travel			
X axis travel	mm	1200	1800
Y axis travel	mm	900	1400
Z axis travel	mm	700	1200
Spindle nose to table surface	mm	150-850	200-1400
Spindle center to column	mm	70-970	160-1560
Worktable			
Table size	mm	1360x700	2000x900
Max.worktable load	kg	1000	1600
Dimension of T-slot	mm	5-18x122	5-122x165
CNC controller			
Standard controller (FANUC)		0i-MF Plus	
Standard controller (Mitsubishi)		M80B	
Standard controller (Siemens)		/	
Spindle			
Drive type		Belt drive	
Spindle speed	rpm	8000	6000
Spindle taper		BT50	
Spindle motor power (FANUC)	kW	15/18.5	
Spindle motor torque (FANUC)	Nm	143/191/236	220/272
Spindle motor power (Mitsubishi)	kW	15/18.5	
Spindle motor torque (Mitsubishi)	Nm	143/191/236	
Spindle motor power (Siemens)	kW	/	/
Spindle motor torque (Siemens)	Nm	/	/
Axis			
Axis feed motor-X/Y/Z(FANUC)	kW	3.0/3.0/3.0	
Axis torque-X/Y/Z(FANUC)	kW	36/90	
Axis feed motor-X/Y/Z(Mitsubishi)	kW	4.5/4.5/4.5	
Axis torque-X/Y/Z(Mitsubishi)	Nm	37.2/90	
Axis feed motor-X/Y/Z(Siemens)	Nm	6.4/6.4/6.4	
Axis torque-X/Y/Z(Siemens)	Nm	40/120	
Rapid feed rate-X/Y/Z(FANUC)	m/min	15/15/15	
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	15/15/15	
Rapid feed rate-X/Y/Z(Siemens)	m/min	15/15/15	
Accuracy			
Positioning accuracy(bi-direction)	mm	0.005/300	
Repeat positioning	mm	0.003/300	
Machine			
Air pressure	kg/cm²	6-7bar	
Machine dimension (Length)	mm	3800	4300
(Width)	mm	3200	3600
(Height)	mm	3300	4500
Machine weight	kg	10500	15000