



**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.

A series high-speed and high-precision 5 axis machine

- A-axis is DDR torque motor with dual drive, C-axis is DDR torque motor with direct drive.
- Adopt FC30 high-intensity casting material + gantry type structure design, which enables high precision and high dynamics required for 5-axis machining.



Siemens controller

Heidenhain controller



Three-axis hollow oil-cooled ballscrew



Fully closed-loop linear scale (X/Y/Z/A/C axis)



DD rotary table



Torque motor



Laser tool setter



Workpiece's online measurement and rotary table center automatic calibration system



HSK-A63-32T Tool magazine

Specification	Unit	BF-500A5	BF-630A5	BF-800A5
X axis travel	mm	600	900	1100
Y axis travel	mm	1000	1050	1250
Z axis travel	mm	500	650	
A axis rotary angle		-110---40°	-120--120°	
C axis rotary angle		360°		
Distance from spindle nose to worktable	mm	110-610	120-770	
Maximum rotation diameter of workpiece		600	800	1000
Rotary table Dia.	mm	Φ500	Φ630	Φ800
Maximum load	kg	350	850	
T-slot width		12H8	14H8	
Reference aperture		Φ50H7		
		Φ50H8		
Machine weight	kg	9500	18000	21500

A series high-speed and high-precision 5-axis machine

Item	Unit	BF-300B5	BF-500A5	BF-630A5	BF-800A5
Travel					
X axis travel	mm	490	600	900	1100
Y axis travel	mm	550	1000	1050	1300
Z axis travel	mm	430	500	650	
A/B axis angle range	mm	/	-110--40°	-120--120°	
C axis angle range	mm	/	360°		
Spindle nose to table surface		0-430	100-600	120-770	
Distance from table surface to A axis rotation center		/	428	424	
Worktable					
Rotary table Dia.	mm	Φ300	Φ500	Φ630	Φ800
Max.worktable load	kg	50	350	850	850
Dimension of T-slot		4-12H7	12H8	14H8	
Reference aperture		/	Φ50H7		Φ50H8
CNC controller					
Standard controller (Siemens)		SINUMERIK ONE			
Spindle					
Drive type		Direct Drive	Built-in		
Spindle speed	rpm	12000	18000		
Spindle taper		BBT40	HSK-A63		
Spindle motor power (Siemens)	kW	9	30		
Spindle motor torque (Siemens)	Nm	57	105		
5 axes					
X/Y/Z/A/C axis motor power (Siemens)	kW	2.9/2.9/3.55/5.3/2.2	2.9/2.9/3.55/3.1/1.6	6.4/6.4/6.4/8.1*2/6.3	6.4/6.4/6.4/9.6*2/9
X/Y/Z/A/C axis motor torque (Siemens)	Nm	22/26/253/105	22/22/22/543/363	40/40/40/1290*2/600	40/40/40/1539*2/660
X/Y/Z/A/C axis feed rate(Siemens)	m/min	36/36/36	24/24/24	20/20/20	
A axis rotation speed	rpm	20	20	20	
C-axis rotation speed	rpm	20	60	60	
Accuracy					
Positioning accuracy(bi-direction)	mm	0.005/300	0.003/300		
Repeat positioning	mm	0.003/300	0.002/300		
AC axis positioning accuracy	arc-sec	/	±5		
AC axis repeat positioning accuracy	arc-sec	/	3	4	
Machine					
Air pressure	kg/cm ²	6-7bar			
Machine dimension (Length)	mm	2250	3300	5360	5800
(Width)	mm	2600	3380	3720	4250
(Height)	mm	3160	3100	3900	
Machine weight	kg	6000	9500	18000	21500

UP series high-speed and high-precision machining center

Item	Unit	BF-540UP	BF-755UP	BF-1312UP	BF-1814UP
Travel					
X axis travel	mm	500	700	1300	1800
Y axis travel	mm	400	550	1000	1400
Z axis travel	mm	220	500	700	
Spindle nose to table surface	mm	170-390	180-680	150-850	200-900
Spindle center to column	mm	620	950	1200	1430
Worktable					
Table size	mm	500X400	850X550	1450x1000	1800x1200
Max.worktable load	kg	300	800	1800	4000
Dimension of T-slot	mm	3-14X100	5-18X100	5-18x150	7-18x160
CNC controller					
Standard controller (FANUC)		/	0i-MF Plus		
Standard controller (Mitsubishi)		/	M80A		M80B
Standard controller (Siemens)		828D SW28x			
Spindle					
Drive type		Built-in			Direct Drive
Spindle speed	rpm	30000	20000	18000	10000
Spindle taper		HSK-E40	HSK-A63		BBT50
Spindle motor power (FANUC)	kW	/	11/13.75	18.5/23	15/18.5
Spindle motor torque (FANUC)	Nm	/	48/60	90	143
Spindle motor power (Mitsubishi)	kW	/	11/13.75	18.5/23	15/18.5
Spindle motor torque (Mitsubishi)	Nm	/	48/60	90	143
Spindle motor power (Siemens)	kW	11	20/25	30	17
Spindle motor torque (Siemens)	NM	8.5	48/60	105	162
Axis					
Axis feed motor-X/Y/Z(FANUC)	kW	/	3.0/3.0/3.0	3.0/3.0/3.0	
Axis torque-X/Y/Z(FANUC)	kW	/	20/45	22/45	36/90
Axis feed motor-X/Y/Z(Mitsubishi)	kW	/	3.0/3.0/3.0	4.5/4.5/4.5	7/7/7
Axis torque-X/Y/Z(Mitsubishi)	Nm	/	22.5/64	37.2/90	45/130
Axis feed motor-X/Y/Z(Siemens)	Nm	/	2.9/2.9/3.55	6.4/5.5/5.5	7.7/7.7/7.7
Axis torque-X/Y/Z(Siemens)	Nm	Axis linear motor XY:5180Nm Z:3450NM	22/66	40/30/30	48
Rapid feed rate-X/Y/Z(FANUC)	m/min	/	30/30/30		15/15/15
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	/	30/30/30		15/15/15
Rapid feed rate-X/Y/Z(Siemens)	m/min	60/60/60	30/30/30		15/15/15
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	2900	4000	5075
(Width)	mm	2010	2420	3000	3800
(Height)	mm	2620	3000	3500	3900
Machine weight	kg	4500	6500	12500	19500