

Model			BV75	BV85	BV100	BV120
Specification						
Travel	X axis	mm	762	862	1050	1200
	Y axis	mm	510（A axis by 450 or 490）			
	Z axis	mm	560			
Work table size		mm	610×900	610×1000	610×1300	610×1500
T-slot size (number-width*distance) mm			5-18×100×125			
Max. loading capacity		kg	500		700	
Spindle nose to table		mm	152~712			
Spindle center to column		mm	603.4			
Moving speed		mm/min	24000			
Feeding speed		mm/min	3~15000			
Spindle	Rotate speed	rpm	60~7000 或 60~8000 或 60~10000			
	Taper		7:24 No.40			
	Diameter	mm	Φ70			
	Max. Torque	Nm	70（FANUC）或 114.6（SIEMENS）			
Tool Magazin e	Type		Disk or ATC			
	Capacity		21 or 24			
	Time	sec.	6 or 2.5			
	Max. Tool Dia.w/o tool on Side	mm	Φ160 或 Φ120			
	Max. Tool Dia.	mm	Φ80 or Φ75			
	Max Tool length	mm	304 250			
	Load capacity	kg	68 or 80			
Accuracy	Positioning	mm	X/Y/Z:0.016/0.010		X:0.020/0.010 Y/Z:0.016/0.010	
	Repeatability	mm	X/Y/Z:0.012/0.006		X:0.015/0.006 Y/Z:0.012/0.006	
Motor powe	Spindle motor		11/15 KW, 70Nm(FANUC) or 12/15KW,114.6Nm(SIEMENS) *			
	X axis motor		3KW, 12Nm(FANUC) or 3.3KW, 16Nm(SIEMENS) *			
	Y axis motor		3KW,12Nm or 3.3KW, 16Nm*		4KW, 22Nm or 3.3KW, 16Nm *	
	Z axis motor		4KW, 22Nm or 3.3KW, 16Nm *			
	Tool magazine motor		Disk Tool Change 40W			
			ATC 0.2kw			
			ATC Equipment 0.55KW			
Electric Powe			380（1±10%）V 50HZ			
Compress air Pressure		mpa	0.6			
Single air consumption		m³/min	0.07~0.1			
Full load current			A 100			
Overall Size (L*W*H) mm			2882× 2347 ×3018	2882×2347× 3018	3282×2347× 3018	3712×2347× 3018

Occupation Dimension	mm	4064×3280	4064×3280	4464×3280	4894×3280
Net weight	kg	6000	6000	6500	7000
<i>Working Environment</i>		<i>Temperature 5°C~40°C Humidity &lt;75%</i>			

#### Features:

- Bed Type structure with fixed column;
- X and Y Axis go through cross moving table;
- X, Y and Z-axis use rectilinear rolling guide and ball screws , driven by servo motor
- Umbrella type tool magazine ,and arm type tool magazine as an option
- Enclosed cover of whole machine ,different axes adopt stainless telescopic covers or protection cover
- Bed and electrical cabinet integrated , unnecessary for dismantling during transportation , cabinet adopts double doors
- Enlarge the span of Y axis , eliminate the problem of X axes gravity cackle , ensure the stability of bed
- Spindle adopts high quality import bearing ,spindle components , by strictly balanced dynamic testing . Direct blade changing mechanism ,the cutter head can rotate ,it has a simple structure , by strictly balanced dynamic testing .Direct blade changing
- The transmission between spindle power and spindle is driven by serrated belt , the ratio is 1:1
- Its spindle is fit for the requirement of different tools
- Advanced design can ensure special machining
- Can be equipped by probes , closed loop control laser scale rotary table

#### Application:

BV series adopt CNC system from specialized company, all the axes and spindle are driven by servo motor ,3 axes or 4 axes coordinated , capable of drilling ,boring ,milling ,rigid threading etc, realizing digital positioning ,suitable for large whorl and multi curve manufacture ,and several steps process can be done by one clip , at the same time ,several cycling manufacture program was equipped in CNC system . Such as drilling ,cooling liquid supply ,tool changing can be done by preprogramming ,spindle center blowing during tool change to keep spindle tape clean .Chips from manufacture process can be rushed ,then conveyed to chips collector , or by hand.