BAOFENG

High Stability, High Rigidity
Inventive & Intelligent Creation

QUALITY COMES FROM CONFIGURATION, SERVICE COMES FROM HEART

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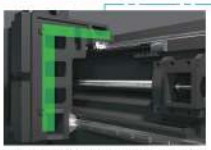
DONGGUAN BAOKE PRECISION MACHINERY CO., LTD.

V Series High Speed High Precision Double Column Machining Center

▸ Double column machining center with 3-linear guideway have mature manufacturing capabilities and advanced technical skills. Its high rigidity structure combined with powerful spindle cutting performance can meet high-speed and high-precision processing of various heavy parts and molds, and is widely used in general mechanical parts, processing of automobile molds, stamping molds, transportation molds, precision mechanical parts, large electronic product casings, etc.

Z axis 4 linear guideway

Z-axis 4-linear guideway is located in four directions and receives force at equal intervals, effectively improving cutting capabilities.



BAOFENG inverted L-shaped Y-axis design

Y-axis adopts a long-span inverted L-shaped design, and the center of gravity falls on the column, which reduces the cantilever length of ram spindle and effectively improves the rigidity of Y-axis and cutting rigidity of the head.

Base, worktable, and gantry beam all adopt a box-shaped double-layer rib structure.

BT50-6000 belt type spindle

Integral gantry beam structure, high rigidity and high precision retention

Standard

BT50-6000 belt type spindle

Optional

1 .BBT50-10000 rpm direct drive spindle

2 .HSK-A63-18000 rpm built-in spindle

Manual side milling head

Automatic side milling head

Gear head

V Series High Speed High Precision Double Column Machining Center

The machine design adopts large-span support to achieve the best anti-deformation structure of casting.
The body design has undergone FEA to ensure stability and rigidity.

- Workpiece blowing system
- Tool chip flushing system
- Centrallubrication system
- Spindle oil coolant
- Handwheel
- Heat exchanger
- Dual screw+chain type chip conveyor
- Guideway protection cover
- Standard metal cover
- Alarming light
- Working light

Manual side milling head

Automatic side milling head

Standard metal cover

Full enclosed metal cover

V Series High Speed High Precision Double Column Machining Center

Item	Unit	1613V	2513V	1814V	2016V	3016V	2518V	3023V	4023V	3026V	4026V	5026V	6026V	4029V	5029V	6029V	6032V	8032V	6038V	8038V
Travel																				
X axis travel	mm	1600	2400	1800	2200	3200	2700	3200	4200	3200	4200	5200	6200	4200	5200	6200	6200	8200	6100	8100
Y axis travel	mm	1400		1400	1700		1900	2600		2600			2500	3200			3900		3800	
Z axis travel	mm	600		700	800		800	1000		1000				1000			1250		1250	
Spindle nose to table surface	mm	180-780		150-850	260-1060		150-950	236-1236		236-1236				236-1236			400-1650	600-1850	400-1650	
Gantry width	mm	1430		1430	1650		1860	2350		2650				2900			3250		3850	
Worktable																				
Table size	mm	1650X1100	2500X1100	1800x1200	2200x1300	3000x1300	2700x1500	3000x1800	4000x1800	3000x2200	4000x2200	5000x2200	6000x2200	4000x2400	5000x2400	6000x2400	6000x2600	8000x2600	6000X3200	8000X3200
Max.worktable load	kg	3000	4000	4000	5000	6000	6000	8000	10000	12000	15000	16000	18000	15000	16000	18000	20000	25000	22000	28000
Dimension of T-slot	mm	7-18X150		7-18x160	7-22x190		8-22x180	10-22x180		11-22x200				12-26x200			13-22X200		16-22X200	
CNC controller																				
Standard controller (FANUC)		0i-MF Plus		0i-MF Plus	0i-MF Plus		0i-MF Plus	0i-MF Plus		0i-MF Plus				0i-MF Plus			0i-MF Plus		0i-MF Plus	
Standard controller (Mitsubishi)		M80		M80	M80		M80	M80		M80				M80			M80		M80	
Standard controller (Siemens)		828D		828D	828D		828D	828D		828D				828D			828D		828D	
Spindle																				
Drive type		Direct drive		Direct drive	Direct drive		Direct drive	Direct drive		Direct drive				Direct drive			Direct drive		Direct drive	
Spindle speed	rpm	12000		10000	10000		10000	10000		10000				10000			10000		10000	
Spindle taper		BBT40-45°		BBT50-45°	BBT50-45°		BBT50-45°	BBT50-45°		BBT50-45°				BBT50-45°			BBT50-45°		BBT50-45°	
Spindle motor power (FANUC)	kW	15/18.5		15/18.5	15/18.5		15/18.5	22/26		22/26				22/26			22/26		22/26	
Spindle motor torque (FANUC)	Nm	95.5/118/159/191		143/191/236	143/191/236		143/191/236	140/166/223		140/166/223				140/166/223			140/166/223		140/166/223/286	
Spindle motor power (Mitsubishi)	kW	15/18.5		15/18.5	15/18.5		15/18.5	22/26		22/26				22			22/26/35		22/26/35	
Spindle motor torque (Mitsubishi)	Nm	77.8/106/118		143/191/236	143/191/236		143/191/236	140/166/223		140/166/223				140/166/223			140/166/223		140/166/223	
Spindle motor power (Siemens)	kW	9		17	17		17	22		22				22			22		22	
Spindle motor torque (Siemens)	Nm	57/108/135		162	162		162	140		140				140			140		140	
Axis																				
Axis feed motor-X/Y/Z(FANUC)	kW	3.0/3.0/3.0		3.0/3.0/3.0	3.0/3.0/3.0		6.0/3.0/3.0	6.0/7.0/7.0		6.0/7.0/7.0				6.0/7.0/7.0			6.0/7.0/7.0		6.0/7.0/7.0	
Axis feed motor-X/Y/Z(Mitsubishi)	kW	3.0/3.0/3.0	4.5/4.5/4.5	7.0/7.0/7.0	7.0/7.0/7.0		7.0/7.0/7.0	7.0/7.0/7.0		7.0/7.0/7.0				7.0/7.0/7.0			7.0/7.0/7.0		7.0/7.0/7.0	
Axis feed motor-X/Y/Z(Siemens)	kW	6.4/2.9/3.55		7.7/7.7/7.7	7.7/7.7/7.7		7.7/7.7/7.7	7.7/7.7/7.7		7.7/7.7/7.7				7.7/7.7/7.7			7.7/7.7/7.7		7.7/7.7/7.7	
Axis torque-X/Y/Z(FANUC)	Nm	36/90		36/90	36/90		X:36/130 YZ:36/90	X:38/130 YZ:30/83		X:36/130 YZ:30/83				X:38/130 YZ:30/83			X:38/130 YZ:30/83		X:38/130 YZ:30/83	
Axis torque-X/Y/Z(Mitsubishi)	Nm	37.2/90		45/130	45/130		45/130	45/130		45/130				45/130			45/130		45/130	
Axis torque-X/Y/Z(Siemens)	Nm	X:48/120 YZ:22/66	30/90	48	48		48	48		48				48			48		48	
Rapid feed rate-X/Y/Z(FANUC)	m/min	20/20/20	15/20/20	15/15/12	15/15/12		12/12/12	15/15/12		12/12/12				12/12/12			10/10/10		10/10/10	
Rapid feed rate-X/Y/Z(Mitsubishi)	m/min	20/20/20	15/20/20	15/15/12	15/15/12		12/12/12	15/15/12		12/12/12				12/12/12			10/10/10		10/10/10	
Rapid feed rate-X/Y/Z(Siemens)	m/min	20/20/20	15/20/20	15/15/12	15/15/12		12/12/12	15/15/12		12/12/12				12/12/12			10/10/10		10/10/10	
Accuracy																				
Positioning accuracy(bi-direction)	mm	0.005/300		0.005/300	0.005/300		0.005/300	0.005/300		0.005/300				0.005/300			0.005/300		0.005/300	
Repeat positioning	mm	0.003/300		0.003/300	0.003/300		0.003/300	0.003/300		0.003/300				0.003/300			0.003/300		0.003/300	
Machine																				
Air pressure	kg/cm²	6-7bar		6-7bar	6-7bar		6-7bar	6-7bar		6-7bar				6-7bar			6-7bar		6-7bar	
Machine dimension (Length)	mm	5210	6900	5650	6370	8600	7670	8440	10540	8450	10540	12880	16000	10540	12880	15000	15000	19000	15000	19000
(Width)	mm	3920	3870	4170	4320		4470	4970		5270			5300	5820			6570		7200	
(Height)	mm	3300		4000	4300		4300	5000		5000				5000			6200		6200	
Machine weight	kg	13000	18000	18000	19000	22000	21900	30500	33500	32000	36500	41000	49000	38500	43500	50000	52000	60000	58000	68000

Data, pictures, parameters are for reference only, please refer to the final product details.