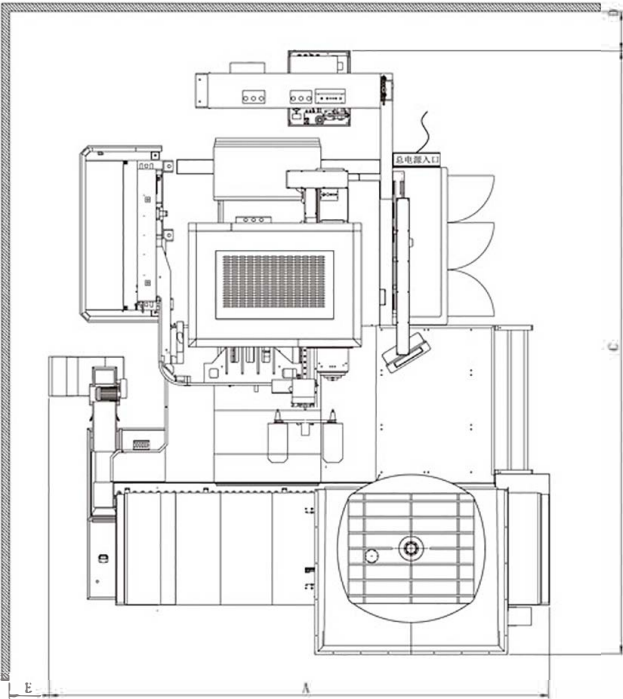
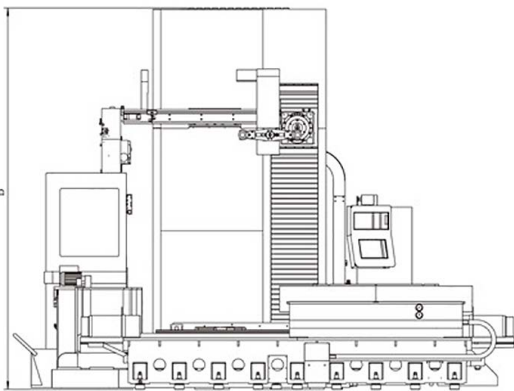


机器外形图 / Machine layout drawing



单位/unit: mm

机型/ Model	A							B					C			D	E
	X:2000mm	X:2500mm	X:3000mm	X:3500mm	X:4500mm	X:5500mm	X:6500mm	Y:1600mm	Y:2000mm	Y:2600mm	Y:3200mm	Y:3500mm	Z:1500mm	Z:2000mm	Z:2500mm		
BM-4	5,120	5,620	/					5,225	5,625	/			6,595	/		1000	1000
	5,120	5,620	/					5,225	5,625	/			6,595	/			
	5,920	6,420	6,920	7,420	/			/	5,625	/		6,795	7,295	/			
BM-5	6,065	6,565	7,065	7,565	/			/	4,855	5,455	/		6,865	6,865	/	1000	1000
	/	/	7,465	7,965	8,965	9,965	/	/	5,455	6,055	/	7,925	8,425	/			
	/				8,765	9,765	10,765	/			6,055	6,355	/	8,795	9,295		

工作台 / Worktable

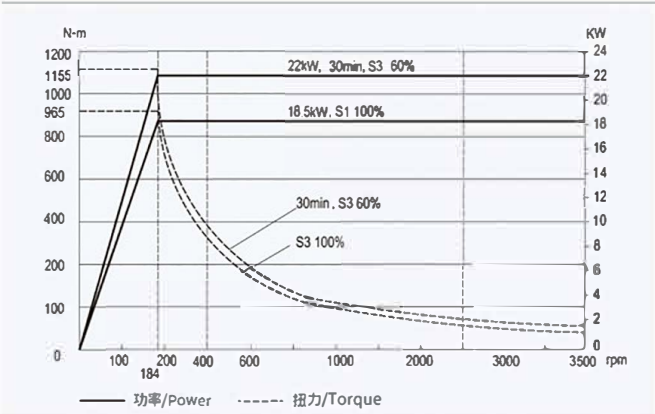


单位/unit: mm

机型/Model	BM-4	BM-5
旋转角度/Rotation	1°(standard) 0.001°(option)	0.001°
尺寸/size	1,250×1,500/ 1,400×1,600	1,600×1,800/ 1,800×2,200/ 2,000×2,500/ 2,500×3,000
T型槽/T-slot	22H7×150×7/ 24H7×200×7	24H7×200×7/ 28H7×200×7/11/ 28H7×250×9
基准孔径/ Reference aperture	140H7	140H7

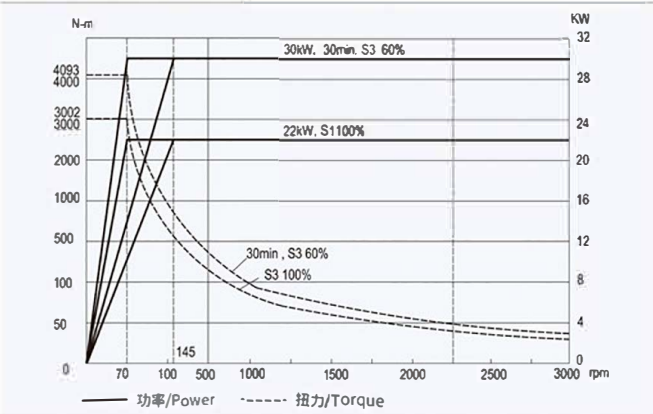
主轴扭力图 / Spindle motor power /torque chart

BM-4 FANUC αiL18



主轴形式/Spindle type	齿轮式/2-step gear
主轴转速/Spindle speed	3,500RPM
最大功率/Max.power	18.5/22KW
最大扭矩/Max.torque	965/1,155Nm

BM-5 FANUC αiP50



主轴形式/Spindle type	齿轮式/2-step gear
主轴转速/Spindle speed	3,000RPM
最大功率/Max.power	22/30KW
最大扭矩/Max.torque	3,011/4,109Nm

标准附件 / Standard accessories

1 FANUC 0iMF 控制器 5轴4联动功能	FANUC 0iMF CNC, 4axis simultaneously
2 10.4寸彩色显示屏	10.4" LCD color display
3 3000转主轴 主轴功率22/30Kw (BM-5)	3000rpm spindle speed, spindle power 22/30Kw (BM-5)
3500转主轴 主轴功率18.5/22Kw (BM-4)	3500rpm spindle speed, spindle motor power 18.5/22Kw (BM-4)
4 高扭力齿轮箱传动	High torque gear box transmission
5 BT50 主轴锥度	BT50 spindle taper
6 主轴油温冷却装置	Spindle oil cooler
7 X Z轴滚柱线轨 Y轴硬轨	XZ axis roller type linear guide way Y axis box way design
8 立柱移动式重切削结构	Column moving heavy duty construction
9 X Y Z轴配备发格直线光栅尺	XYZ axis fitted with Fagor linear scale
10 连续旋转工作台B轴0.001度分辨率角度编码器	B axis rotary table with angle encoder (0.001 degree table)
11 内置螺旋式除屑器和外置履带式排屑器	Chip auger and chip conveyor
12 RJ45接口	RJ45 interface
13 滑动面自动润滑系统	Auto. Lubrication system
14 切削冷却水系统	Coolant unit
15 分离式移动手轮	Portable MPG
16 主轴换刀吹气装置	Air blow device
17 刚性攻牙、螺旋插补功能	Rigid tapping, Helical interpolation
18 操作/保养使用说明书	Operation / Maintenance manual
19 自动保护断电装置	Auto power off function
20 电气箱热交换器装置	Heat exchanger
21 工作区域工作灯	Work lamp
22 程式结束灯及警示灯	Program end and warning light

选购附件 / Optional accessories

1 Siemens控制器	Siemens CNC
2 工作台防护装置、操作者防护装置	Table guard and operator protection guarding
3 主轴中心出水单元20 bar	Coolant through spindle 20 bar
4 主轴中心出水单元70 bar	Coolant through spindle 70 bar
5 自动工件量测	Automatic workpiece measurement
6 自动刀长量测	Automatic tool length measurement
7 最大刀长600mm 刀重25kgs	Max. tool length 600mm, tool weight 25kgs
8 数控平旋盘	Auto. Facing head
9 半自动平旋盘	Manual facing head
10 主轴伸长套筒	Spindle extension sleeve
11 手动直角铣头	Manual angle milling head
12 手动万象铣头	Manual universal head
13 40/60/90/120把刀刀库	40/60/90/120 tools ATC

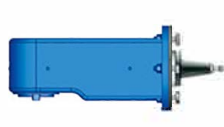
选配铣头附件 / Various head unit (option)



手动万向铣头
Manual universal
milling head



手动直角铣头
Manual right angle
milling head



手动深镗铣头
Manual type deep-boring head



数控平旋盘
CNC auto. facing head



主轴伸长套筒
Spindle extension sleeve



卧式镗铣加工中心机

Horizontal Boring and Milling
Machining Center



BM Series Horizontal Boring and Milling Machining Center

BM

卧式镗铣加工中心机

- ▶ 主轴箱中心对称的热对称设计。
- ▶ 所有基础部件均采用超大型优质铸铁件结构。
- ▶ 带双涡轮驱动系统的回转台能更好的消除间隙。
- ▶ 高精度和高刚性直线导轨。
- ▶ 灵活多变的主轴配置和纷繁芜杂的适应工业4.0的自动化功能选项配置。

BM作为一款能够成功执行镗孔和铣削操作的机床。采用热对称结构，高刚性，高精度。是一款独一无二的多功能加工中心，以其高稳定性、无与伦比的性能和高效率而著称。是众多产品中最具有设计特点的产品之一。我们在设计这类解决方案方面有着悠久的历史，多年来，这类解决方案已成为客户最关注的解决方案之一。

BM series, as a machine tool that can successfully perform boring and milling operations, adopts a thermal symmetric structure, high rigidity, and high precision. It is a unique multifunctional machining center known for its high stability, unparalleled performance, and high efficiency. Our company have a long history in designing such solutions, and over the years, these solutions have become one of the most concerned solutions for customers.



- ▶ Thermal symmetrical design with center symmetry of the main axle box
- ▶ All basic components are made of ultra large high-quality cast iron structures
- ▶ The rotary table with a dual warm-gear drive system can better eliminate clearances
- ▶ High precision and high rigidity linear guide rail
- ▶ Flexible spindle configuration and a variety of automation function options suitable for Industry 4.0



机械规格表 / Specification

机型/Model	单位/Unit	BM-4			BM-5					
主轴/Spindle										
主轴锥孔/Spindle taper	~				ISO 50					
主轴直径/Spindle diameter	mm	110			130					
W轴行程/Z-axis travel	mm	550			700					
主轴转速/Spindle speed	rpm	3,500			3,000					
主轴马力/Spindle power	kw	18.5/22			22/30					
主轴最大扭矩/Max.spindle torque	Nm	965-1,155			3,011-4,109					
主轴形式/Spindle transmission	~				2-step gear					
行程/Travel										
X轴行程/X-axis travel	mm	2000		3,000	2,500	3,500		4,500		5,500
Y轴行程/Y-axis travel	mm	1,500	1,500	2,000	2,000	2,000	2,500	2,500	3,000	3,000
Z轴行程/Z-axis travel	mm	1,500	1,500	2,000	1,500	1,500	2,000	1,500	2,000	2,500
主轴鼻端至工作台距离/Distance from spindle nose to table	mm	-125~1,925		-25~2,025	-40~2,160	-40~2,160		60~2,260	165~2,865	165~2,865
主轴中心至工作面距离/Distance from spindle center to table	mm	0-1,500		0-2,000	0-1500		0-2,000	0-1500	0-2,000	0-2500
工作台/Table										
工作台面积/ Table size(X direction × Y direction)	mm	1,250×1,500	1,250×1,500	1,400×1,600	1,600×1,800	1,600×1,800	1,800×2,000	2,000×2,500	2,000×2,500	2,500×3,000
工作台荷重 / Table loading	kgs	6,000		8,000	10,000	10,000	15,000	20,000	20,000	25,000
最小分割角度/Min. segmentation angle	deg	1°	0.001°(optional)	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°
T型槽/T-slot	mm	22H7×150×7		24H7×200×7		24H7×200×7	28H7×200×7	28H7×200×11	28H7×200×7/11	28H7×250×9
定位精度/Position accuracy	arc-sec	6"	10"		10"					
重复精度/Repeatability	arc-sec	±2"	±4"		±4"					
进给/Feed										
切削进给速率(X/Y/Z/W)/Cutting feed rate(X/Y/Z/W)	m/min	10/10/10/6			10/10/10/5					
快速位移速率(X/Y/Z/W)/Rapid traverse(X/Y/Z/W)	m/min				10/10/10/8					
自动换刀(选配)/ATC(optional)										
刀库容量/Tool magazine capacity	pcs				optional: 40/60/90/120/180					
最大刀具长度/Max.tool length	mm				500					
最大刀具重量/Max.tool weight	kg				25					
机器精度(Accuracy)										
定位精度/Position accuracy	mm				P0.01					
重复精度/Repeatability	mm				Ps0.005					
其他/Other										
电力需求/Power requirement	KVA				65					
气压压力需求/Pneumatic requirement	kg/cm²				6-8					
机器总重/Machine net weight	kg	30,400	30,400	34,500	40,500	42,000	43,000	45,800	47,300	58,000

* Specifications are subject to change without notice.