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# + 数控龙门铣床 龙门加工中心专家

CNC gantry milling machine and Gantry machining centers expert



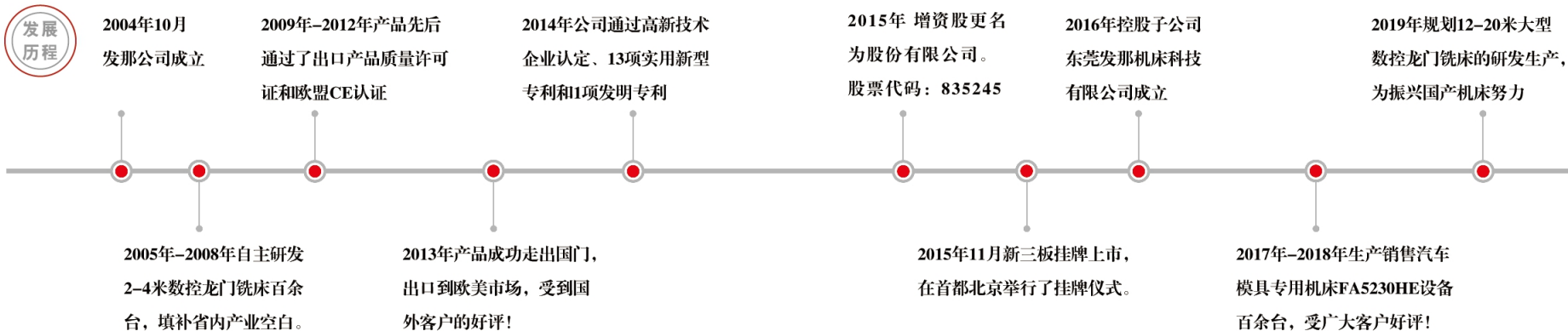
## 河北发那数控机床股份有限公司

HEBEI FANA NUMERICAL CONTROLLED MACHINE TOOL CO.,LTD.

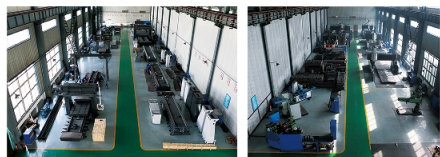
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 河北发那数控机床股份有限公司  
HEBEI FANA NUMERICAL CONTROLLED MACHINE TOOL CO.,LTD



**企业简介**



**企业证书**





## 发那简介: FANA Profile

河北发那数控机床股份有限公司专业从事数控龙门铣床、龙门加工中心等产品的研发、生产销售和技术服务，主要设计生产人员都有近20年在德资工厂工作经验。产品主要包括超强力重载系列龙门加工中心、高效能系列龙门式加工中心和高速龙门加工中心等CNC机床，该机床以高刚性、高稳定性、高精度、和价格优势等特点广泛应用于航空工业、汽车模具等大型模具加工制造及军工、石油、重型机械、造船、机床等机械加工行业。

发那机床始终坚持以人才为根本的经营方针，与国内外多家科研单位，高等院校建立了合作关系，组建了一支由数控机床专家为带头人的研发团队，潜心研究开发数控机床技术。公司拥有众多的技术人才和管理人才。从设计研发到生产、制造、组装到品管检验，发那机器均经过每一阶段严格的监控，以确保品质与稳定性。

公司拥有各种先进科研、检测设备、制造加工能力处于业内先进水平。每台机器特点与性能都是根据用户需求设计，它为您提供更好的加工效果，提升更高的产能，是您最合理的投资。“质量第一，客户第一”作为发那数控机床发展的基本理念，我们坚持以稳定可靠的产品及周到的售前和售后服务来回馈广大客户，努力做华人工具机品牌的百年企业。

Fana Machine Tool specializes in the R&D, production, sales and technical services of CNC gantry milling machines, gantry machining centers, etc. The main design and production personnel have nearly 20 years of experience in the German factory. The products which mainly include super-heavy-duty series gantry machining centers, high-efficiency series gantry machining centers and high-speed gantry machining centers, characterized by high rigidity, high stability, high precision, and price advantages, are widely used in aerospace industry, automotive molds and other large mold processing and manufacturing and military, petroleum, heavy machinery, shipbuilding, machine tools and machinery processing industry.

Fana Machine Tool Technology Dongguan Co., Ltd. has always adhered to the management policy of taking talents as its foundation, established cooperative relations with a number of research institutes and institutions of higher learning at home and abroad, and established a research and development team led by CNC machine tool experts. Research and develop CNC machine tool technology. The company has a large number of technical talents and management talents. From design and development to production, manufacturing, assembly, and quality control inspections, the machines have undergone rigorous monitoring at each stage to ensure quality and stability.

The company has a variety of advanced scientific research, testing equipment, manufacturing and processing capabilities in the industry advanced level. The characteristics and performance of each machine are designed according to the needs of users. It provides you with better processing results and higher production capacity. It is your most reasonable investment. "Quality first, customer first" as the basic concept of FANUC CNC machine tool development, we insist on stable and reliable products and thoughtful pre-sales and after-sales services to repay customers, and strive to be a century-old enterprise of Chinese machine tool brand.

## 企业文化: corporate culture

“诚实厚道，吃亏是福”是发那对企业文化建设的基本理念，积极为员工搭建实现人生价值的平台，为其创造安全、舒适的工作生活环境，发那员工正以主人翁的精神，热情地贡献着自己的智慧、青春和才华。我们相信，只有内部精诚合作，才能实现共同目标。发那的持续发展，不仅来源于超前的战略眼光和卓越的市场运作，更来源于发那优秀的企业文化！

“客户是上帝，质量是生命，文化是内涵，创建具有国际水平的现代化高新技术企业”，是全体发那人执着的追求。发那，一个充满智慧与生机，一个寄托了每一位发那人追求梦想与热情的企业，正向着更高、更大、更远的目标奋勇迈进！

“Honesty and willing to give” is the basic line for Fana to build the enterprise culture. Fana is trying to build a platform where staffs could maximize their value, live a better life and their contributions could be witnessed. Every one in Fana is struggling with their wisdoms and talents.

We believe that we can gain the common goal as one. The sustainable development is not only based on outstanding strategy and good marketing management but also comes from Fana's amazing enterprise culture!

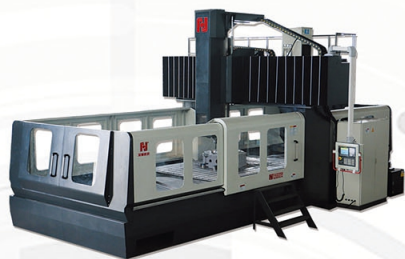
“Revolving around customers, more social contributions, employees' higher living standard, international modernizing high-tech enterprise” is the final pursue for the entire Fana. Fana, full of lives and wisdoms, carrying every staff's dream and enthusiasm, is heading for the higher, bigger and further goal.



+ 完美品质 始终如一

每台机器的铸件接触面都经过精密的铲刮工艺，确保每台机床的精度与稳定性

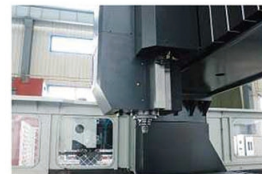
产品展示:



台湾两档齿轮变速主轴箱



一体式维护平台



高刚性、高精度主轴



台湾/日本/德国丝杠导轨



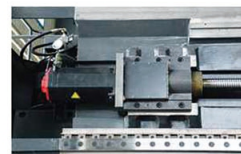
自动换刀系统



变频液压站



台湾/德国齿轮行星减速机



进口联轴器



人工铲刮



FA4027H龙门加工中心



FA4032H龙门加工中心



FA8040HP龙门加工中心



FA6035H龙门加工中心



FA3217E数控龙门铣床



FA8036HW龙门加工中心



## 优越性能/Superior performance





## 高速龙门加工中心系列

High-speed gantry machining center series

### 可选配置 Optional accessories

- 直角铣头  
vertical milling head
- 在线测量  
on line measure system
- 回转工作台  
rotary table
- 光栅尺  
linear scale
- 以太网传输  
Ethernet

### 标准配置 Standard accessories

- 皮带主轴belt type spindle
- 密闭式电气箱closed electrical cabinet
- 电柜空调air condition
- 电子手轮electrical hand wheel
- 主轴油冷系统spindle oil cooler
- 自动冷却系统automatic cooling system
- 螺旋排屑器 screw chip conveyor
- 链式排屑器 chain screw chip conveyor

- 自动润滑系统 automatic lubrication system
- 立臂式操作箱 operation panel
- 脚踏式主轴松刀装置 foot pedal
- 主轴加工吹气装置 spindle blowing device
- 半封闭机床护罩 half-closed machine cover
- 工作灯及警示灯 working lamp and alarm lamp
- USB 接口和RS232 传输接口  
RS232 interface and USB port

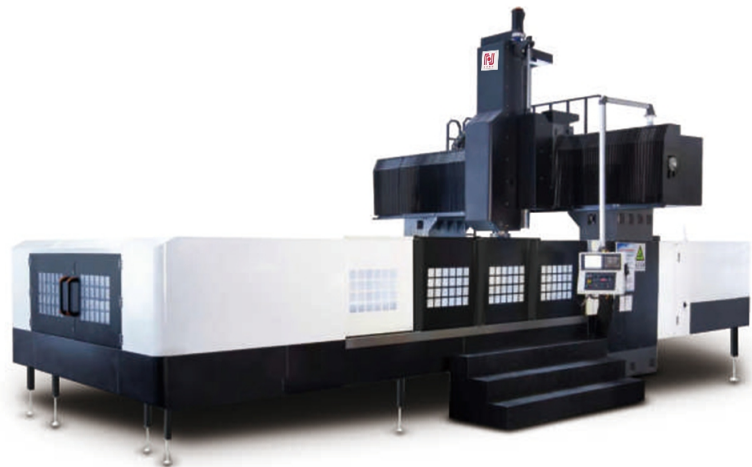
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## 技术参数 Technical parameter

机型MACHINE MODEL	单位 Unit	FA-1613	FA-2013	FA-2015	FA-2515
工作台 Worktable					
工作台尺寸 Worktable size	mm	2000x1200	2000x1200	2000x1200	2600x1200
T型槽 (宽度x间距X数量) T-Slot(width×distance×quantity)	mm	7-22-170	7-22-170	7-22-170	7-22-170
最大承重Max.load	kg	2000	3000	3000	5000
行程 Travel	mm				
X轴行程 X axis	mm	1600	2000	2000	2500
Y轴行程 Y axis	mm	1300	1300	1500	1500
Z轴行程 Z axis	mm	600	650	640	900
主轴端面至工作台距离 Spindle nose to worktable	mm	150-750	150-800	150-790	100-1000
两立柱间距离 Distance between two columns	mm	1450	1450	1500	1500
主轴 Spindle					
主轴鼻端锥度 Taper			BT40		BT50
主轴转速 Speed	r/min		8000/10000/12000/15000		6000/8000
主轴电机Spindle motor model			β ilp30		
三轴电机Axial motor model	NM		β 40/β 40/β 40		
进给 Feed					
快速移动速率 Rapid feed	m/min	24/24/24	10/10/8	10/10/8	12/12/10
切削进给速率 Cytting speed	m/min		6		
精度 Accuracy					
X轴导轨配置 X axis guideway			45滚柱导轨 45 roller guide		
Y轴导轨配置 Y axis guideway			45滚柱导轨 45 roller guide		
Z轴导轨配置 Z axis guideway			45滚柱导轨 45 roller guide		
定位精度 Positioning accuracy	mm		± 0.01/300		
重复定位精度 Repeat ability	mm		± 0.008/300		
其他 Others					
电源供应 Power suooly	KVA	35	35	35	35
数控系统 CNC control		标配发那科系统、选配西门子和三菱等其他进口或国产系统 Standard configuration of Fanuc, Siemens, Mitsubishi, etc			
外形尺寸 Dimension	mm	5300x3600x3300	5300x3600x3300	5300x3600x3300	5300x3600x3300
净重 Weight	kg	13000	13500	13800	16800

注：各种型号均可根据客户要求定制。本公司对产品价格、设计均不断研究改进，上述规格若有变更，恕不另行通知。





## 重载龙门加工中心系列

Heavy Duty Gantry Machining Center Series

### 可选配置 Optional accessories

- 直角铣头  
vertical milling head
- 在线测量  
on line measure system
- 回转工作台  
rotary table
- 光栅尺  
linear scale
- 以太网传输  
Ethernet

### 标准配置 Standard accessories

- 齿轮式主轴 gear spindle
- 主轴箱自制四线轨结构  
Spindle box with 4 guideway structure
- 密闭式电气箱 closed electrical cabinet
- 电柜空调 air condition
- 电子手轮 electrical hand wheel
- 主轴油冷系统 spindle oil cooler
- 自动冷却系统 automatic cooling system
- 螺旋排屑器 screw chip conveyor

- 链式排屑器 chain screw chip conveyor
- 自动润滑系统 automatic lubrication system
- 立臂式操作箱 operation panel
- 脚踏式主轴松刀装置 foot pedal
- 主轴加工吹气装置 spindle blowing device
- 半封闭机床护罩 half-closed machine cover
- 工作灯及警示灯 working lamp and alarm lamp
- USB 接口和 RS232 传输接口  
RS232 interface and USB port

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## 技术参数 Technical parameter

机型 MACHINE MODEL	单位 Unit	FA-2518	FA-3020	FA-3022	FA-4022
工作台 Worktable					
工作台尺寸 Worktable size	mm	2600x1600	3000x1600	3000x1800	4000x1800
T型槽 (宽度x间距X数量) T-Slot(width x distance x quantity)	mm	22x240x7	22x240x7	22x240x7	22x240x7
最大承重 Max.load	kg	6000	8000	10000	12000
行程 Travel	mm				
X轴行程 X axis	mm	2500	3000	3000	4000
Y轴行程 Y axis	mm	1800	2000	2200	2200
Z轴行程 Z axis	mm	900	900	1000	1000
主轴端面至工作台距离 Spindle nose to worktable	mm	200-1100	200-1100	100-1100	100-1100
两立柱间距离 Distance between two columns	mm	2000	2000	2200	2200
主轴 Spindle					
主轴鼻端锥度 Taper		BT50 φ190 (选配 BT50-φ150 或 BT40-φ150)			
主轴转速 Speed	r/min	6000 (选配 8000、10000、15000)			
主轴电机 Spindle motor model		β iiP30			
三轴电机 Axial motor model	NM	β 40/β 40/β 40			
进给 Feed					
快速移动速率 Rapid feed	m/min	12/12/10			
切削进给速率 Cytting speed	m/min	6			
精度 Accuracy					
X轴导轨配置 X axis guideway		55滚柱导轨 55 roller guide			
Y轴导轨配置 Y axis guideway		55滚柱导轨 55 roller guide			
Z轴导轨配置 Z axis guideway		55滚柱导轨 55 roller guide			
定位精度 Positioning accuracy	mm	± 0.008/300			
重复定位精度 Repeat ability	mm	± 0.005/300			
其他 Others					
电源供应 Power suooly	KVA	35	35	35	35
数控系统 CNC control		标配发那科系统、选配西门子和三菱等其他进口或国产系统 Standard configuration of Fanuc, Siemens, Mitsubishi, etc			
外形尺寸 Dimension	mm	8300x3400x4200	9100x3400x4200	9100x3800x4200	13000x3800x4200
净重 Weight	kg	24000	26000	28000	30000

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**技术参数 Technical parameter**

机型MACHINE MODEL	单位 Unit	FA-3027	FA-4027	FA-5027	FA-6027
工作台 Worktable					
工作台尺寸 Worktable size	mm	3000x2300	4000x2300	5000x2300	6000x2300
T型槽 (宽度x间距X数量) T-Slot(width×distance×quantity)	mm	28x175x13	28x175x13	28x175x13	28x175x13
最大承重Max.load	kg	13000	16000	18000	20000
行程 Travel	mm				
X轴行程 X axis	mm	3000	4000	5000	6000
Y轴行程 Y axis	mm	2700	2700	2700	2700
Z轴行程 Z axis	mm	1050	1050	1050	1050
主轴端面至工作台距离 Spindle nose to worktable	mm	250-1300	250-1300	250-1300	250-1300
两立柱间距离 Distance between two columns	mm	2700			
主轴 Spindle					
主轴鼻端锥度 Taper		BT50 φ 190			
主轴转速 Speed	r/min	6000 (选配 4500、8000)			
主轴电机Spindle motor model		α il22/ (齿轮箱结构) α ilp30 (齿型皮带或直联结构)			
三轴电机Axial motor model	NM	α 30/ α 30/ α 30		α 40/ α 30/ α 30	
进给 Feed					
快速移动速率 Rapid feed	m/min	10/10/8			
切削进给速率 Cytling speed	m/min	6			
精度 Accuracy					
X轴导轨配置 X axis guideway		65滚柱导轨 65 roller guide			
Y轴导轨配置 Y axis guideway		55滚柱导轨 65 roller guide			
Z轴导轨配置 Z axis guideway		65滚柱直线导轨 (选配硬轨或4线轨结构)			
定位精度 Positioning accuracy	mm	± 0.008/300			
重复定位精度 Repeat ability	mm	± 0.005/300			
其他 Others					
电源供应 Power suooly	KVA	50	50	50	50
数控系统 CNC control		标配发那科系统、选配西门子和三菱等其他进口或国产系统 Standard configuration of Fanuc, Siemens, Mitsubishi, etc			
外形尺寸 Dimension	mm	10000x5000x520	13000x5000x5200	14000x5000x5200	16000x5000x5200
净重 Weight	kg	38800	45800	48800	52800

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**技术参数 Technical parameter**

机型MACHINE MODEL	单位 Unit	FA-5030	FA-6030	FA-8030	FA-10030
工作台 Worktable					
工作台尺寸 Worktable size	mm	5000x2500	6000x2600	8000x2600	10000x2600
T型槽 (宽度x间距X数量) T-Slot(width×distance×quantity)	mm	28x250x11	28x250x11	28x250x11	28x250x11
最大承重Max.load	kg	18000	20000	25000	30000
行程 Travel	mm				
X轴行程 X axis	mm	5000	6000	8000	10000
Y轴行程 Y axis	mm	3000	3000	3000	3000
Z轴行程 Z axis	mm	1050	1050	1400	1400
主轴端面至工作台距离 Spindle nose to worktable	mm	250-1300	250-1300	200-1600	200-1600
两立柱间距离 Distance between two columns	mm	3000			
主轴 Spindle					
主轴鼻端锥度 Taper		BT50 φ 190			
主轴转速 Speed	r/min	6000 (选配 4500、8000)			
主轴电机Spindle motor model		α il22/ (齿轮箱结构) α ilp30 (齿型皮带或直联结构)			
三轴电机Axial motor model	NM	α 40/ α 30/ α 30		α 40FAN/ α 30/ α 30	
进给 Feed					
快速移动速率 Rapid feed	m/min	12/12/10			
切削进给速率 Cytling speed	m/min	6			
精度 Accuracy					
X轴导轨配置 X axis guideway		65滚柱导轨2根 65 roller guide 2pcs			
Y轴导轨配置 Y axis guideway		55滚柱导轨2根 55 roller guide 2pcs			
Z轴导轨配置 Z axis guideway		65滚柱导轨2根 65 roller guide 2pcs		65+55滚柱导轨各2根65+55 roller guide 4pcs	
定位精度 Positioning accuracy	mm	± 0.008/300			
重复定位精度 Repeat ability	mm	± 0.005/300			
其他 Others					
电源供应 Power suooly	KVA	50	50	60	60
数控系统 CNC control		标配发那科系统、选配西门子和三菱等其他进口或国产系统 Standard configuration of Fanuc, Siemens, Mitsubishi, etc			
外形尺寸 Dimension	mm	14000x6000x6000	16000x6000x6000	21000x6000x6500	25000x6000x6500
净重 Weight	kg	56800	62800	76800	89800

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## 技术参数 Technical parameter

机型MACHINE MODEL	单位 Unit	FA-5035	FA-6035	FA-8035	FA-10035
工作台 Worktable					
工作台尺寸 Worktable size	mm	5000x2800	6000x2800	8000x2800	10000x2800
T型槽 (宽度x间距X数量) T-Slot(width×distance×quantity)	mm	28x270x11	28x270x11	28x270x11	28x270x11
最大承重Max.load	kg	20000	25000	30000	30000
行程 Travel	mm				
X轴行程 X axis	mm	5000	6000	8000	10000
Y轴行程 Y axis	mm	3500	3500	3500	3500
Z轴行程 Z axis	mm	1200	1200	1400	1400
主轴端面至工作台距离 Spindle nose to worktable	mm	200-1400	200-1400	200-1600	200-1600
两立柱间距离 Distance between two columns	mm	3500			
主轴 Spindle					
主轴鼻端锥度 Taper		BT50 φ 190			
主轴转速 Speed	r/min	6000 (选配 8000)			
主轴电机Spindle motor model		α il22/ (齿轮箱结构) α ilp30 (齿型皮带或直联结构)			
三轴电机Axial motor model	NM	α 40/ α 30/ α 30		α 40FAN/ α 30/ α 30	
进给 Feed					
快速移动速率 Rapid feed	m/min	12/12/10			
切削进给速率 Cytling speed	m/min	6			
精度 Accuracy					
X轴导轨配置 X axis guideway		65滚柱导轨3根或55导轨4根 65 roller guide 3pcs/55 roller guide 4pcs			
Y轴导轨配置 Y axis guideway		65导轨2根 65 roller guide 2pcs		55导轨3根 55 roller guide 3pcs	
Z轴导轨配置 Z axis guideway		65导轨2根 65 roller guide 2pcs		65+55滚柱导轨2根 65+55roller guide 2pcs	
定位精度 Positioning accuracy	mm	± 0.01/300			
重复定位精度 Repeat ability	mm	± 0.008/300			
其他 Others					
电源供应 Power suooly	KVA	50	50	60	60
数控系统 CNC control		标配发那科系统、选配西门子和三菱等其他进口或国产系统 Standard configuration of Fanuc, Siemens, Mitsubishi, etc			
外形尺寸 Dimension	mm	14000x6500x6000	16000x6500x6000	21000x6500x6500	25000x6500x6500
净重 Weight	kg	62800	72800	88800	99800

注: 各种型号均可根据客户要求定制。本公司对产品规格、设计均不断研究改进, 上述规格若有变更, 恕不另行通知。

## 技术参数 Technical parameter

机型MACHINE MODEL	单位 Unit	FA-5040	FA-6040	FA-8040	FA-10040
工作台 Worktable					
工作台尺寸 Worktable size	mm	5000x3000	6000x3000	8000x3000	10000x3000
T型槽 (宽度x间距X数量) T-Slot(width×distance×quantity)	mm	28x270x11	28x270x11	28x270x11	28x270x11
最大承重Max.load	kg	20000	25000	30000	30000
行程 Travel	mm				
X轴行程 X axis	mm	5000	6000	8000	10000
Y轴行程 Y axis	mm	4000	4000	4000	4000
Z轴行程 Z axis	mm	1200	1200	1400	1400
主轴端面至工作台距离 Spindle nose to worktable	mm	200-1400	200-1400	200-1600	200-1600
两立柱间距离 Distance between two columns	mm	4000			
主轴 Spindle					
主轴鼻端锥度 Taper		BT50 φ 190			
主轴转速 Speed	r/min	6000 (选配 8000)			
主轴电机Spindle motor model		α il22/ (齿轮箱结构) α ilp30 (齿型皮带或直联结构)			
三轴电机Axial motor model	NM	α 40/ α 30/ α 30		α 40FAN/ α 30/ α 30	
进给 Feed					
快速移动速率 Rapid feed	m/min	12/12/10			
切削进给速率 Cytling speed	m/min	6			
精度 Accuracy					
X轴导轨配置 X axis guideway		65滚柱导轨4根 65 roller guide 4pcs			
Y轴导轨配置 Y axis guideway		65滚柱导轨3根 65 roller guide 3pcs			
Z轴导轨配置 Z axis guideway		65导轨2根 65 roller guide 2pcs		65+55滚柱导轨各2根 65+55roller guide 4pcs	
定位精度 Positioning accuracy	mm	± 0.01/300			
重复定位精度 Repeat ability	mm	± 0.008/300			
其他 Others					
电源供应 Power suooly	KVA	50	50	50	50
数控系统 CNC control		标配发那科系统、选配西门子和三菱等其他进口或国产系统 Standard configuration of Fanuc, Siemens, Mitsubishi, etc			
外形尺寸 Dimension	mm	14000x6500x6000	16000x6500x6000	21000x6500x6500	25000x6500x6500
净重 Weight	kg	68800	78800	98800	108800

注: 各种型号均可根据客户要求定制。本公司对产品规格、设计均不断研究改进, 上述规格若有变更, 恕不另行通知。

### 动梁数控龙门铣床(横梁移动式)

MOVING CROSSBEAM GANTRY TYPE MILLING MACHINE  
(CROSSBEAM MOVE)

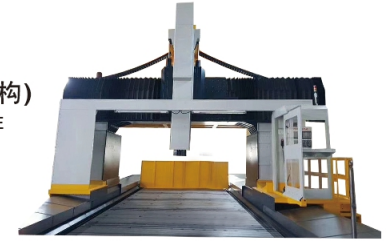


### 技术参数 Technical parameter

机械特性 MACHINE FEATURES	机型MACHINE MODEL	单位Unit	FA8032H	FA10032H	FA12040H	FA16040H
		工作台 Worktable				
	工作台尺寸 Worktable size	mm	8000 × 3000	10000 × 3000	12000 × 3000	16000 × 3000
	T型槽 (宽度 × 间距 × 数量) T-Slot(width × distance × quantity)	mm	28 × 270 × 11	28 × 270 × 11	28 × 270 × 11	28 × 270 × 11
	最大承重 Max.load	kg	25000	30000	36000	48000
	行程 Travel					
	X轴行程 X axis	mm	8000	10000	12000	16000
	Y轴行程 Y axis	mm	3200	3200	4000	4000
	Z轴行程 Z axis	mm	1400	1400	1400	1400
	主轴端面至工作台距离 Spindle nose to worktable	mm	200-1600	200-1600	200-1600	200-1600
	两立柱间距离 Distance between two columns	mm	4000		5000	
	主轴 Spindle					
	主轴鼻端锥度 Taper		BT50 φ 190			
	主轴转速 Speed	r/min	6000 ( 选配option 4500、8000、10000 )			
	主轴功率 Power	KW	22/26			
	三轴扭矩 X/Y/Z Torque	NM	X轴36NM4个电机速比1:5 X axis 36NM 4sets motors speed ratio 1:5 Y轴36NM1个电机速比1:5X axis 36NM 1sets motors speed ratio 1:5 Y轴36NM1个电机速比1:4 X axis 36NM 1sets motors speed ratio 1:4			
	进给Feed					
	快速移动速率Rapid feed	m/min	8/8/8			
	切削进给速率 Cyting speed	m/min	4			
	精度 Accuracy					
	X轴导轨配置 X axis guideway		55滚柱直线导轨4根 roller linear guideway 4pcs			
	Y轴导轨配置 Y axis guideway		65滚柱直线导轨3根 roller linear guideway 3pcs			
	Z轴导轨配置 Z axis guideway		65+55滚柱直线导轨各2根 roller linear guideway 4pcs			
	定位精度 Positioning accuracy	mm	± 0.02			
	重复定位精度 Repeat ability	mm	± 0.01			
	其他 Others					
	净重 Weight	kg	128000	148000	168000	188000
	外形尺寸 Dimension	mm	12000 × 7000 × 6000	14000 × 7000 × 6000	20000 × 7000 × 6500	25000 × 7000 × 6500
	电源供应 Power suooly	KVA	60	60	60	60
	数控系统 CNC control		标配西门子828DSL或840D Siemens control.			

### 动梁数控龙门铣床(龙门架移动天车式结构)

MOVING CROSSBEAM GANTRY TYPE MILLING MACHINE  
(GANTRY MOBILE CROWN BLOCK STRUCTURE)



### 技术参数 Technical parameter

机械特性 MACHINE FEATURES	机型MACHINE MODEL	单位Unit	FA16046HMD	FA25060HMD
		工作台 Worktable		
	工作台尺寸 Worktable size	mm	16000 × 4000	25000 × 4800
	T型槽 (宽度 × 间距 × 数量) T-Slot(width × distance × quantity)	mm	28	28
	工作台最大承重 Max.load	kg	60000	80000
	行程 Travel			
	X轴行程 X axis	mm	16000	25000
	Y轴行程 Y axis	mm	4600	6000
	Z轴行程 Z axis	mm	1400	1400
	主轴端面至工作台距离 Spindle nose to worktable	mm	200-1600	200-1600
	两立柱间距离 Distance between two columns	mm	4600	5500
	主轴 Spindle			
	主轴鼻端锥度 Taper		BT50	BT50
	主轴转速 Speed	r/min	6000	6000
	主轴功率 Power	KW	22/26	22/26
	三轴扭矩 X/Y/Z Torque	NM	X轴36NM4个电机速比1:30 X axis 36NM 4sets motors speed ratio 1:30 Y轴36NM1个电机速比1:5X axis 36NM 1sets motors speed ratio 1:5 Y轴36NM1个电机速比1:4 X axis 36NM 1sets motors speed ratio 1:4	
	进给Feed			
	快速移动速率Rapid feed	m/min	8/8/8	8/8/8
	切削进给速率 Cyting speed	m/min	6	6
	精度 Accuracy			
	X轴导轨配置 X axis guideway		65滚柱线轨4根 roller linear guideway 4pcs	
	Y轴导轨配置 Y axis guideway		65滚柱线轨3根 roller linear guideway 3pcs	
	Z轴导轨配置 Z axis guideway		65滚柱线轨4根 roller linear guideway 4pcs	
	定位精度 Positioning accuracy	mm	± 0.02	
	重复定位精度 Repeat ability	mm	± 0.01	
	其他 Others			
	净重 Weight	Kg	180000	260000
	电源供应 Power suooly	KVA	80	80
	数控系统 CNC control	Standard	Siemens 840D	Siemens 840D





操作箱  
Friendly operation panel



密封式电气箱  
Closed electrical cabinet



进口电器元件  
Famous brand electrical parts

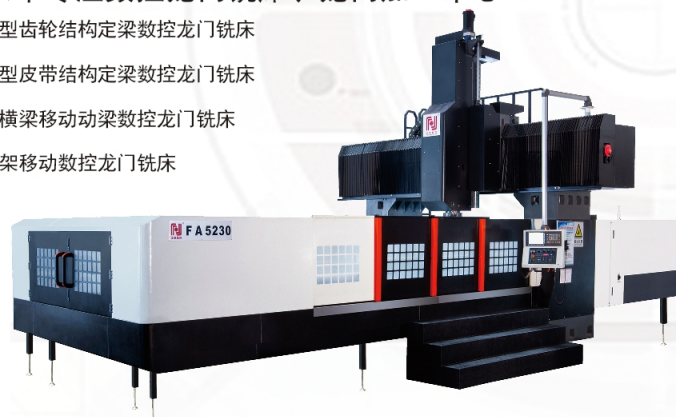
十八年专注数控龙门铣床、龙门加工中心

标准型齿轮结构定梁数控龙门铣床

经济型皮带结构定梁数控龙门铣床

桥式横梁移动动梁数控龙门铣床

龙门架移动数控龙门铣床



主轴两档变速齿轮箱  
Spindle gear box



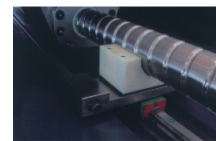
主轴油冷机  
Spindle oil cooler



自动换刀系统  
Automatic tool changer



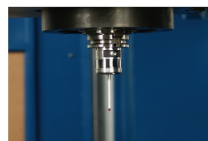
精密滚珠线性滑轨  
precision linear ball railsX



精密预拉伸进给丝杆  
Precision pre-stret



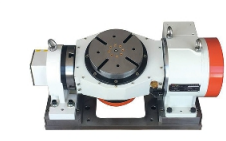
台湾主轴  
spindle from Taiwan



工件在线测量  
Workpiece on-line measurement



光栅尺  
linear scale

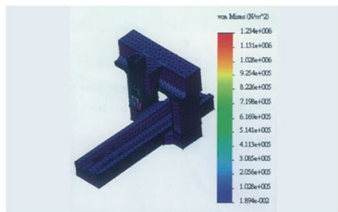


回转工作台  
rotary table

## 优越性能/Superior performance

### 最佳结构设计, 确保整机的高刚性和高稳定性

THE BEST STRUCTURE DESIGN TO ENSURE MACHINE HIGH RIGIDITY AND HIGH STABILITY



#### 优越床身结构 Superior machine frame structure

采用米汉纳铸铁整体式床身, 实施良好退火处理消除内应力。超强机结构, 加上Y轴使用精密滚柱线性滑轨(2组滑轨5滑块)的配置, 强化了切削时轴向及径向刚性, 提供极佳的切削刚性, 有效避免切削震动, 提升切削效率, 切削噪音低, 同时延长了刀具使用寿命。

Meehanite whole bed casting, with the implementation of good annealing to eliminate internal stress. Super strong machine structure, coupled with Y-axis precision linear roller guideway (two sets guideway, each with 5 blocks), enhanced cutting axial and radial rigidity, which provides excellent cutting rigidity, avoid cutting vibration, improve cutting efficiency, low cutting noise, meanwhile extending tool life.



#### 手工铲刮 Hand scraping

产品的核心技术源自于结构件加工高稳定性及精密准确的刮研技术, 所有结合面(包括导轨安装面, 电机座, 轴承座, 螺母座安装面)都经专业人员手工铲刮完成, 导轨安装面经过刮研后, 直线度均达到0.01/1000MM的高精度, 保证机床的高刚性, 高稳定性。

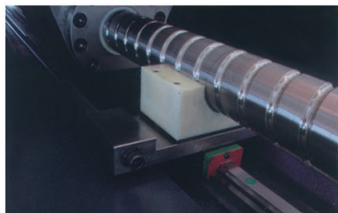
Core technology of product derived from the processing of high stability of the structure and precise and accurate scraping technology, all combined surface (including rail mounting surfaces, motor base, bearing, nut seat mounting surface) are completed by the professional manual scraping. rail mounting surface after scraping, straightness reached 0.01 / 1000mm high precision, ensure high rigidity, high stability of the machine.



#### 精密滚珠线性滑轨 precision linear ball rails

X, Y轴进给系统采用高负荷, 重载型, 高精度及低摩擦系数的精密滚珠线性滑轨, 提供高灵敏的动态精度, 配合独立封闭回路油压配重系统, 反应快速, 减少Z轴负载, 可节省至少50%以上的能源消耗。

X, Y-axis feed system with high load, heavy-duty, high-precision and low friction coefficient precision linear ball guideway, providing highly sensitive dynamic accuracy, with separate closed-loop hydraulic counterweight system to ensure rapid response, reducing Z axle load, can save at least 50% of energy consumption.



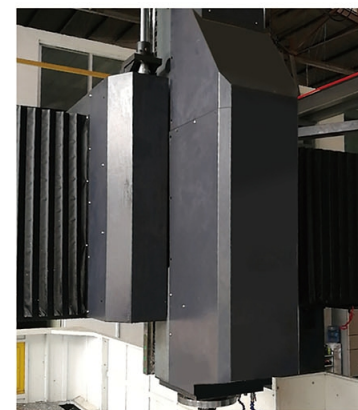
#### 精密预拉伸进给丝杆 Precision pre-stretched screw

三轴进给采用C3级外循环插管式双螺母预拉伸滚珠丝杆, 进给速度快, 精度高。三轴进给采用C3级外循环插管式双螺母预拉伸滚珠丝杆, 进给速度快, 精度高。

precision pre-stretched screw X/Y/Z axis adopts C3 grade outer loop double-nut pre-stretched ball screw to ensure fast feed speed and high accuracy.

### 德国标准设计, 严格的国际ISO检验标准

GERMAN STANDARD DESIGN, AND STRICTLY FOLLOW INTERNATIONAL ISO STANDARD



#### 主轴中心与Z轴滑轨面最短距离 Superior machine frame structure

超强的Z轴高刚性滑轨装置, 采用热处理再精密研磨的Z轴滑轨, 以内包式刮研导轨组合方式, 维持极佳的刚性, 稳定性与精度; 主轴中心位于头部中心, 可减少由主轴温升引起的热变形, 并提高结构对切削产生的力矩, 提高加工精度及稳定性。

spindle center and the shortest distance between the Z-axis slide surface Super high rigidity Z-axis slide device, using heat and then the Z-axis precision grinding rails, less inclusive scraping rail combinations, maintaining excellent rigidity, stability and accuracy; spindle center located in the head center, reducing the temperature rise due to the thermal deformation of the spindle, and to improve the structure of the torque generated by the cutting to improve machining accuracy and stability.



#### 主轴箱齿轮传动结构, 配日本大金液压系统 headstock gear structure equip with Japan's Daikin hydraulic system

整体式台湾正齿齿轮箱, 两档变速, 低速1:4.34, 高速1:1.14, 采用日本磨制齿轮, 德国FAG轴承; 配备日本大金液压系统完成松刀, 平衡主轴, 换档等工作。

An integral spurteeth gear box from Taiwan, two steps speed, low-speed 1: 4.34, high-speed 1: 1.14, with the Japanese grinding gears, Germany FAG Bearings; equipping with Japan's Daikin hydraulic system which can perform loose tools, balance spindle, shift steps.



#### 安全稳定的刀库设计 safe and stable tool changer

模组化的刀库设计, 标准配置为32把链式刀库, 可根据客户选择40把刀。Modular tool changer design, the standard is 32 station tool changer, 40 station as option.



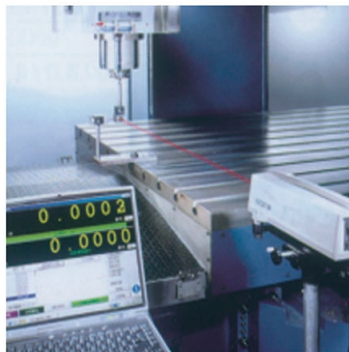
## 全套严格品格保检测\*100%主要零件品质管理

STRICT QUALITY INSPECTION SYSTEM\*100% MAJOR PARTS QUALITY CONTROL

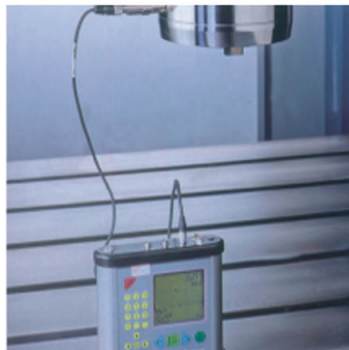
- 荣获ISO9001质量管理体系认证;完善的质量保障体系:供应商评审---来料检验  
--生产过程品质监控--产品最终检验,确保产品始终在受控状态下生产。
- 按照欧洲标准设计制造,所有产品均通过CE认证。
- Company quality management system ISO9001 has been approved by an international authority; complete quality assurance system: Vendor Review --- incoming inspection---production process quality control --- final product testing to ensure that products are always produced under controlled conditions.
- Our products are produced in accordance with European standard, all products are with CE certification.



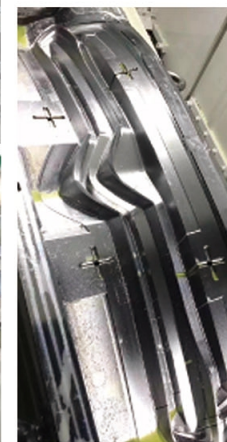
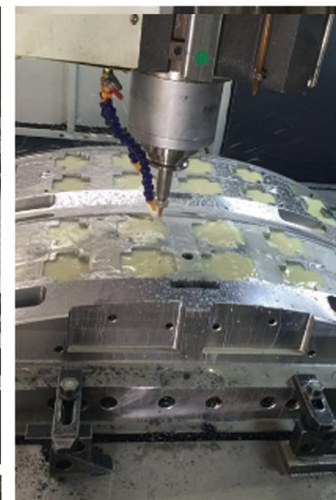
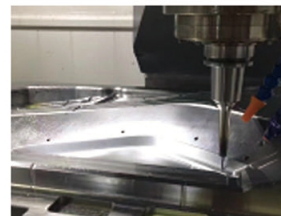
循圆检测Ball-bar-test



激光干涉仪检测Laser inspection



## 加工样品/Machining samples





## 应用范围/Range of application



## 汽车行业/Auto Industry

