

CNC LATHE

数控机床

汇匠心之力, Unite our best efforts,
准创行业新篇!
Shandong will write a new chapter in the industry!



品牌故事 BRAND STORY

2009从事蚀刻、雕刻刀模技术生产加工，深知刀模工艺及要求等各项流程。2016年深耕刀模加工设备业务，我们深知，刀模是模切行业的核心根基，一台精密稳定的设备，是无数加工厂稳定接单、提质增效的底气。

In 2009, I was engaged in the production and processing of etching and engraving die technology. I was well-versed in all the processes related to die technology and requirements. In 2016, I delved deeply into the business of die processing equipment. We firmly believe that dies are the core foundation of the die-cutting industry. A precise and stable equipment is the confidence for countless processing factories to secure orders stably and improve efficiency and quality.

创业之初，我们深耕珠三角刀模制造产业一线，亲眼见证行业普遍难题：很多加工厂受制于设备精度不足、机器稳定性差，加工的刀模毛刺多、精度不均、良品率低下；老旧设备精度不够、加工效率低，稳定性差、耽误生产交期；更有多数设备厂商只售机器、不懂工艺流程，客户购机后无人指导、故障无人售后，踩遍生产弯路。

At the beginning of our entrepreneurship, we delved deeply into the cutting tool mold manufacturing industry in the Pearl River Delta region. We witnessed the common problems in this industry firsthand: Many processing factories were constrained by insufficient equipment precision and poor machine stability, resulting in excessive burrs on the processed cutting tool molds, uneven precision, and low yield rate; Old equipment had insufficient precision, low processing efficiency, poor stability, and delayed production schedules; Moreover, many equipment manufacturers only sold machines and did not understand the process flow. After customers purchased the machines, there was no guidance and no after-sales service for troubleshooting, and they had to go through numerous production obstacles.

立足于行业真实痛点，我们决定深耕刀模专用设备研发与制造，拒绝粗放代工，坚持精工造设备，用心做服务。多年来，我们专注雕刻刀模设备、蚀刻整套设备、圆刀加工设备的研发升级，聚焦设备精度、机身稳定性、操作实用性三大核心，反复优化设备结构、升级数控系统、刀模生产工艺。

Based on the real industry pain points, we have decided to focus on the research and development and manufacturing of special equipment for mold cutting. We refuse to engage in mass production outsourcing and insist on manufacturing high-quality equipment with meticulous attention to detail. We have been dedicated to the research and upgrading of engraving mold equipment, etching complete sets of equipment, and round knife processing equipment. We focus on the three core aspects of equipment accuracy, body stability, and operational practicality, and repeatedly optimize the equipment structure, upgrade the numerical control system, and mold processing technology.

我们始终坚持实业初心，不追求浮夸营销，只专注设备品质。从机身选材、精密配件甄选，到整机调试、出厂检测，每一台设备都经过严苛质检，保障设备可24小时持续稳定作业，高精度适配异形刀模、细密刀线、圆刀模具等各类加工需求，让新手易操作、老厂提产能。

We always adhere to our original business philosophy, avoiding flashy marketing and focusing solely on equipment quality. From the selection of materials for the body, the selection of precise components, to the overall machine debugging and factory inspection, every piece of equipment undergoes strict quality control to ensure it can operate continuously and stably for 24 hours. It is capable of precisely adapting to various processing needs such as irregular tool molds, fine cutting lines, and circular tool molds, making it easy for beginners to operate and enabling existing factories to increase production capacity.

不同于传统设备厂商单一的卖货模式，我们始终认为：好设备，更需要好服务。除了高品质整机供应，我们配套落地式安装调试、一对一技术培训、全程工艺指导、终身售后维保服务，解决客户购机不会用、用不好、坏了没人修的行业难题。

Unlike traditional equipment manufacturers who adopt a single sales model, we always believe that: excellent equipment requires excellent services. Besides providing high-quality complete machines, we also offer on-site installation and commissioning, one-on-one technical training, full-process process guidance, and lifetime after-sales maintenance services to solve the industry problem where customers cannot use the purchased equipment properly, cannot use it well, and when it breaks down, there is no one to repair it.

立足制造，深耕精造。多年深耕，我们始终坚守初心，以匠心打磨每一台设备，以真诚服务每一位客户，助力大小刀模加工厂降本、提质、增效，用稳定可靠的国产精工设备，为模切行业发展保驾护航！

Based on manufacturing, we focus on meticulous production. After years of deep commitment, we have always remained true to our original intentions. We meticulously polish each piece of equipment with our craftsmanship and sincerely serve every customer, helping small and large knife and mold processing factories reduce costs, improve quality, and increase efficiency. With stable and reliable domestic precision equipment, we safeguard the development of the die-cutting industry!

COMPANY PROFILE 公司简介

本公司专注数控机床研发、生产、销售及售后，主营高速加工中心、高速雕铣机、CNC加工中心、钻攻机等设备，产品服务模具、新能源汽车、电子模切、航空航天等行业。依托优质零部件与精密检测体系，保障设备品质；配备全国服务网络，提供一站式技术服务，致力于为客户打造高可靠的数控加工解决方案。

Our company focuses on the research, production, sales and after-sales service of CNC machine tools. Our main products include high-speed machining centers, high-speed engraving machines, CNC machining centers, drilling and tapping machines, etc. The products are applied in industries such as molds, new energy vehicles, electronic die-cutting, aerospace, etc. Relying on high-quality components and precise detection systems, we ensure the quality of the equipment; we also have a nationwide service network and provide one-stop technical services, aiming to create high-reliable CNC processing solutions for our customers.

RENISHAW激光干涉仪严格检测每台机床的定位精度，现场事实动态补偿，确保最优定位和重复定位精度。

The RENISHAW laser interferometer strictly detects the positioning accuracy of each machine tool, and compensates the field fact dynamically. Ensure optimal positioning and repeat positioning accuracy.



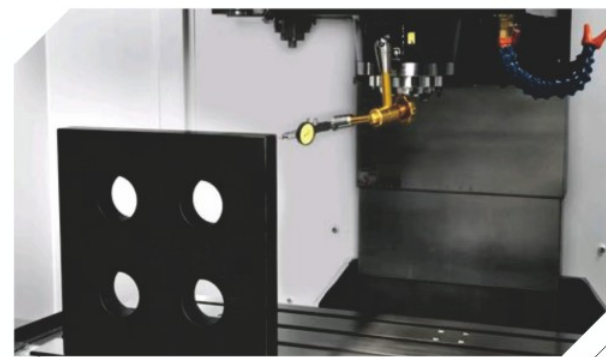
PRODUCT TESTING WITH METICULOSITY

产品检测 一丝不苟

汇淮智能配备世界领先的检测设备，以不懈追求完美的态度，对整个生产程序进行完整的、仔细的检测，以质量求生存，为客户提供高性能、高品质、高精度、耐久使用的产品。

Huipai Intelligent is equipped with world-leading detection equipment. With an unwavering pursuit of perfection, it conducts a comprehensive and meticulous inspection of the entire production process, aiming for quality to survive and providing customers with high-performance, high-quality, high-precision and durable products.

品质树品牌 QUALITY BUILDS BRANDS



01 机床三轴几何精度检验

每台机床三轴通过高精度电子水平测量，整机出厂前必须通过3次精度检验。

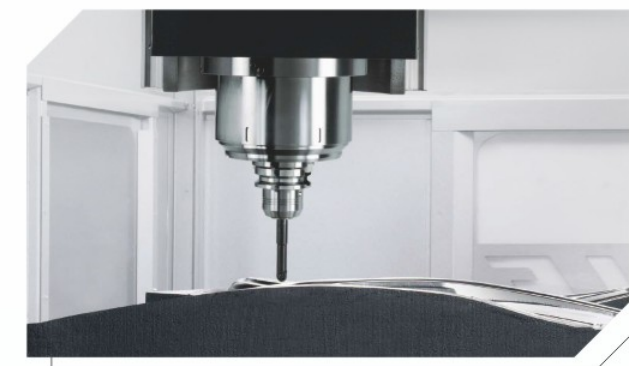
Each machine tool's three axes are measured for high-precision electronic levelness. Before leaving the factory, the entire machine must undergo three rounds of accuracy inspections.

02 标准试块测试

每一部机器，须经精密仪器检验测试外，还需做符合国际标准的动态切削实验。切削完成的标准试块，需经三次元量检测，确保精度符合标准。

Each machine must undergo precise instrument testing, and in addition, it needs to undergo dynamic cutting experiments that comply with international standards.

The standard test block after cutting should undergo three-dimensional measurement to ensure that its accuracy meets the standards.



03 循圆检验

采用循圆测定仪，校正真圆精度及机器几何精度，藉此检验能确保机台三维空间之运动精度。

Using the circular measurement instrument, the true circular accuracy and the machine's geometric accuracy are calibrated. Through this, the motion accuracy of the machine in three-dimensional space can be ensured.

04 精密铲花

精密铲花是一种比木雕还要难的技艺，它是精密设备基本准确度的起点；铲花排除了对其他工具机的依赖，也可以消除由夹持力和热能所造成的偏差。

Precision engraving is a more difficult technique than wood carving. It represents the starting point of the basic accuracy of precision equipment. Engraving eliminates our reliance on other tools and machines, and can also eliminate deviations caused by clamping force and heat energy.



高速加工中心机

HIGH-SPEED MACHINING CENTER MACHINE

最新的立式加工中心机，具备了业主和操作人员所需的改进，最新的控制系统拥有简洁的界面和强大的功能，控制界面智能化、功能多样化，多点触摸屏易操作，并速度更快，加工精度更高。

The latest vertical machining center features the improvements required by the owners and operators. The latest control system has a simple interface and powerful functions. The control interface is intelligent and the functions are diverse. The multi-point touch screen is easy to operate and it is faster with higher processing accuracy.

- | | | | |
|---------|---------------|----------|-------------------------------------|
| ● 水枪 | Water gun | ● 四轴转台 | Four-axis turntable |
| ● 风枪 | Wind gun | ● 斗笠式刀库 | Cap-shaped tool magazine |
| ● USB接口 | USB interface | ● 高精度对刀仪 | High-precision alignment instrument |



机械特性

MECHANICAL PROPERTIES

- 工艺适配刀模行业：刀锋一致性 $\leq 0.01\text{mm}$ ，解决刃口不均，高转速保障光洁度。
Process-adaptive tooling for the mold industry: Blade consistency $\leq 0.01\text{mm}$, addressing uneven edges, high rotational speed ensures smoothness.
- 全闭环高精度：光栅尺全闭环，传动优化，床身时效铲刮，长期精度稳定。
Full closed-loop high precision: Encoder full closed-loop, transmission optimization, bed surface aging scraping, long-term accuracy stability.
- 高规格电主轴：双冷却控温，平衡切削力与表面质量。
High-specification spindle motor: Dual cooling temperature control, balancing cutting force and surface quality.
- 自研软硬件：自研操作界面、四轴快速高精装夹、滚子凸轮转台，提升装夹加工效率。
Self-developed software and hardware: Self-developed operation interface, four-axis rapid high precision clamping, roller cam turntable, enhancing processing efficiency.
- 紧凑机身：占地小、加工空间大。
Compact body: Small footprint, large processing space.
- 全链条服务：非标定制、安装培训、售后维保、工艺技术支持、旧机改造、产线规划。
Full chain services: Customization for non-standard applications, installation training, after-sales maintenance, process technical support, old machine renovation, production line planning.
- 专利技术背书，适配电子模切、新能源FPC、硅胶橡胶裁切等多行业。
Patented technology endorsement, suitable for electronic die-cutting, new energy FPC, silicone rubber cutting and other multiple industries.

- 三轴20m/min位移速度
Three-axis with a displacement speed of 20m/min
- 斗笠式刀库BT30-12T
Cap-shaped tool magazine BT30-12T
- 采用油水分离设计
With oil-water separation design





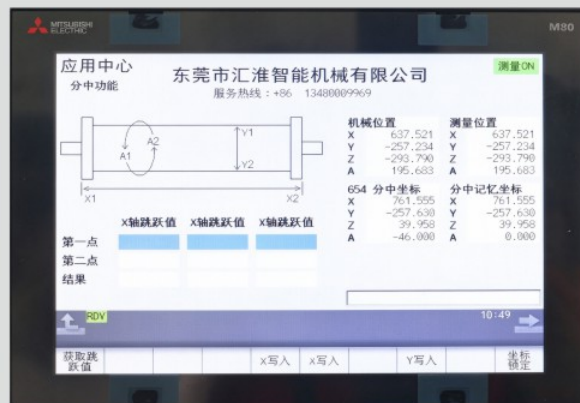
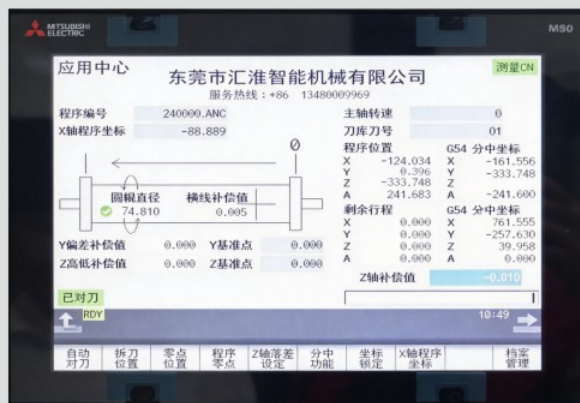
设备采用自研导轨推动式可调节平台，搭配高精度自研装夹治具，有效保障工件重复装夹定位精度。
The equipment adopts a self-developed track-driven adjustable platform and is equipped with high-precision self-developed clamping fixtures, which effectively ensures the repeatability of workpiece clamping and positioning accuracy.

技术参数

TECHNICAL SPECIFICATIONS

规格	Specification	单位 Unit	VMD-S800	VMD-S1000
工作台				
工作台面积	Workbench area	mm	1000*400	1050*500
T型槽	T-slot	/	3-18	5-18
T型槽间距	Distance between T-slots	mm	150	100
行程				
左右行程(X轴)	Left and right travel (X-axis)	mm	800	1000
前后行程(Y轴)	Front and back travel (Y-axis)	mm	400	500
上下行程(Z轴)	Up and down travel (Z-axis)	mm	400	500
主轴鼻端到工作台面	Distance from the nose of the spindle to the workbench surface	mm	150*550	200*700
进给				
X、Y、Z切削进给	X, Y, Z cutting feed	m/min	36(X.Y.Z)	24(X.Y.Z)
X、Y、Z快移速度	X, Y, Z rapid movement speed	m/min	36(X.Y.Z)	24(X.Y.Z)
机床精度				
X轴定位精度	X-axis positioning accuracy	mm	±0.004/100	±0.004/100
Y轴定位精度	Y-axis positioning accuracy	mm	+0.004/100	+0.004/100
Z轴定位精度	Z-axis positioning accuracy	mm	±0.004/100	±0.004/100
X轴重复定位精度	X-axis repeatability positioning accuracy	mm	±0.003/100	±0.003/100
Y轴重复定位精度	Y-axis repeatability positioning accuracy	mm	±0.003/100	±0.003/100
Z轴重复定位精度	Z-axis repeatability positioning accuracy	mm	±0.003/100	±0.003/100
丝杆规格				
X、Y、Z丝杆规格	X, Y, Z screw specifications	/	4010	4508
线轨规格				
X轴线轨规格	X-axis linear guide rail specifications	/	35*2滚柱 Roller	HGW45HA
Y轴线轨规格	Y-axis linear guide rail specifications	/	45*2滚柱 Roller	HGW45HA
Z轴线轨规格	Z-axis linear guide rail specifications	/	45*2滚柱 Roller	HGW45HA
主轴(带传动)				
主轴锥度	Spindle taper	/	ISO30	ISO30
主轴锥孔/拉钉	Spindle taper hole/anchor pin	/	BT30	BT30
主轴功率(基本配置)	Spindle power (basic configuration)	KW	11	11
最高转速(基本配置)	Maximum rotational speed (basic configuration)	rpm	30000/36000	30000/36000
伺服驱动				
X轴伺服驱动功率	X-axis servo drive power	W	3000	4500
Y轴伺服驱动功率	Y-axis servo drive power	W	3000	4500
Z轴伺服驱动功率	Z-axis servo drive power	W	3000	4500
其他				
最大负载平均分布	Maximum load average distribution	KG	500	1000
机械重量	Mechanical weight	KG	5000	7000

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设备人机界面依托日本三菱M80系统进行二次开发，搭载多方位插补与专用分中功能，降低操作门槛，让用户操作更便捷。

The human-machine interface of the equipment is developed based on the Japanese Mitsubishi M80 system. It incorporates multi-directional interpolation and dedicated centering functions, reducing the operational complexity and making it easier for users to operate.

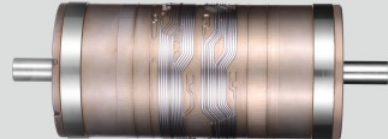
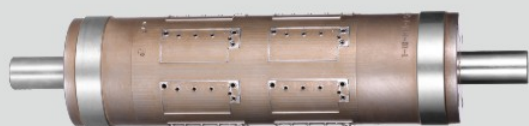


Z轴立柱搭载三滑块支撑结构，相比行业常见双滑块方案，受力分布更均匀，大幅提升切削刚性，高速加工时设备稳定性更好。

The Z-axis column is equipped with a three-slide block support structure. Compared with the common dual-slide block solution in the industry, this design distributes the force more evenly, significantly enhancing the cutting rigidity and improving the stability of the equipment during high-speed processing.



采用自研标准ER50筒夹结构，支持快速更换不同规格轴头，灵活满足各类轴径加工需求。
It adopts the self-developed standard ER50 tube holder structure, which enables quick replacement of different specifications of shaft heads, flexibly meeting various shaft diameter processing requirements.



整机性能贴合精密加工场景，主打应用于电子模切、新能源柔性线路板领域，可满足各类电子产品精密辅料、柔性板材的高效稳定加工生产。

The overall performance of this machine is well-suited for precision processing scenarios. It is mainly applied in the fields of electronic die-cutting and flexible circuit boards for new energy, and can meet the efficient and stable processing and production requirements for various precision auxiliary materials and flexible boards of electronic products.

雕铣机系列

CARVING MILLING MACHINE SERIES

最新的雕铣机，具备了业主和操作人员所需的改进，最新的控制系统拥有简洁的界面和强大的功能，控制界面智能化、功能多样化，多点触摸屏易操作，并速度更快，加工精度更高。

The latest milling machine has incorporated the improvements required by the owners and operators. The latest control system features a simple interface and powerful functions. The control interface is intelligent and the functions are diverse. The multi-point touch screen is easy to operate and it is faster with higher processing accuracy.



机械特性

MECHANICAL PROPERTIES

- 专为平刀雕刻刀模设计，刀口一致性好，减少毛刺、深浅不均问题。
Designed specifically for flat knife engraving tools, it features consistent blade edges, reducing burrs and unevenness issues.
- 可选光栅尺全闭环，床身时效铲刮，精度持久稳定。
It offers the option of a grating scale for full closed-loop control, with bed surface aging and scraping for long-term precision stability.
- 双冷却高扭矩电主轴，降低热变形，兼顾效率与光洁度。
Dual cooling with high-torque motorized spindle reduces thermal deformation, balancing efficiency and smoothness.
- 紧凑机身，占地小，操作方便。
Compact design, small footprint, and easy operation.
- 支持非标定制、工艺指导、维保改造、产线规划一站式服务。
Supports one-stop services including non-standard customization, process guidance, maintenance and renovation, and production line planning.
- 专利技术加持，适配电子、新能源、硅胶橡胶模切行业。
Equipped with patented technology, suitable for the electronics, new energy, and silicone rubber die-cutting industries.



采用自研Z轴高刚性一体滑板结构，大幅提升开粗工况下的设备刚性，减少切削震动，降低刀具损耗，增加刀具使用寿命。

By adopting the self-developed high-stiffness integrated slide plate structure for the Z-axis, the rigidity of the equipment during rough machining is significantly enhanced, cutting vibrations are reduced, tool wear is decreased, and the service life of the tools is prolonged.

X轴配置不锈钢盔甲式防护结构，防尘防屑，提升整机防护等级，减少导轨丝杆磨损，延长设备使用寿命。

The X-axis is equipped with a stainless steel armored protective structure, which can prevent dust and chips, enhance the overall protection level of the machine, reduce the wear of the guide rail and screw rod, and extend the service life of the equipment.



设备双门采用精密导轨滑动设计，替代传统滑轮结构，推拉阻力更小，开合顺畅无卡顿，结构承重与耐磨性大幅提升，整机使用寿命更久。

The double-door equipment adopts a precise guide rail sliding design to replace the traditional pulley structure. This design reduces the pushing and pulling resistance, makes the opening and closing smooth without any jamming, significantly improves the structural load-bearing and wear resistance, and extends the overall service life of the equipment.

渣槽区域做全方位不锈钢包裹处理，耐腐蚀、不易积屑，铁屑清扫简单，方便日常维护，保持设备整洁。

The slag trough area is fully wrapped with stainless steel, which is corrosion-resistant, does not accumulate chips easily, and makes it simple to clean iron filings. This facilitates daily maintenance and keeps the equipment clean.



技术参数

TECHNICAL SPECIFICATIONS

规格 Specification	单位 Unit	HSM-650	HSM-870	HSM-1280
工作台 Workbench				
工作台面积 Workbench area	mm	600X500	800X700	1200X800
T型槽 T-slot	/	5-18	5-18	5-18
T型槽间距 Distance between T-slots	mm	150	150	150
行程 Itinerary				
左右行程(X轴) Left and right travel (X-axis)	mm	500	700	1200
前后行程(Y轴) Front and back travel (Y-axis)	mm	600	800	800
上下行程(Z轴) Up and down travel (Z-axis)	mm	260	350	500
主轴鼻端到工作台面 Distance from the spindle nose to the workbench surface	mm	80*340	100*340	150*650
进给 Feed rate				
X、Y、Z切削进给 X, Y, Z cutting feed	m/min	10	10	10
X、Y、Z快移速度 X, Y, Z rapid movement speed	m/min	15	15	15
机床精度 Machine tool accuracy				
X轴定位精度 X-axis positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300
Y轴定位精度 Y-axis positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300
Z轴定位精度 Z-axis positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300
X轴重复定位精度 X-axis repeatability positioning accuracy	mm	±0.003/300	±0.003/300	±0.003/300
Y轴重复定位精度 Y-axis repeatability positioning accuracy	mm	±0.003/300	±0.003/300	±0.003/300
Z轴重复定位精度 Z-axis repeatability positioning accuracy	mm	±0.003/300	±0.003/300	±0.003/300
主轴(带传动) Spindle (belt drive)				
最高转速 (基本配置) Maximum rotational speed (basic configuration)	KW/rpm	7.5(30000)	7.5(30000)	7.5(24000)
主轴锥度 Spindle taper	/	ER25	ER25	ER25
伺服驱动 Servo drive				
X轴伺服驱动功率 Power of X-axis servo drive	W	1700	2200	3000
Y轴伺服驱动功率 Power of Y-axis servo drive	W	1700	2200	3000
Z轴伺服驱动功率 Power of Z-axis servo drive	W	1700	2200	3000
其他 Other				
最大负载平均分布 Maximum load average distribution	KG	300	300	300
机械外围尺寸 (长*宽*高) Mechanical peripheral dimensions (length * width * height)	MM	2000*1750*2300	2400*1900*2300	3300*2200*2600
机械重量 Mechanical weight	KG	3200	4000	6000

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X轴行程已预留自动换刀（装刀库）所需行程

The X-axis travel has been reserved for the required distance for automatic tool change (loading into the tool magazine)

可选装8T直排式刀库

Optional 8T direct-flow tool magazine can be installed

主轴头可根据客户所配的主轴要求，直径从Φ80-Φ140mm

The spindle head can be customized according to the spindle requirements specified by the customer, with diameters ranging from Φ80mm to Φ140mm.

工作台经高频淬火处理后硬度确保在HRC 48°以上

The workbench has undergone high-frequency quenching treatment, ensuring its hardness to be above HRC 48°.

不锈钢导流板

Stainless steel diversion plate

底座采用多层肋骨补强的超强刚性箱式设计，确保在重负载的机体产生变形及高速加工时的振动造成变形时，都减至可能的最低，确保定位精度，运动直线度等等，永远都在精确度规格范围内。
The base adopts a super-strong rigid box-type design with multiple layers of rib reinforcements. This ensures that even when the heavy-load machine body undergoes deformation or vibration during high-speed processing, the deformation is minimized as much as possible. This guarantees the positioning accuracy, linear motion straightness, and so on, always within the precision specifications.

行业应用 /Industry application

电子模切、FPC新能源线路板、保护膜类、硅胶垫片、不干胶标签等产品加工

Processing of electronic die-cutting, FPC new energy circuit boards, protective films, silicone gaskets, self-adhesive labels, etc. products



五轴加工中心

FIVE-AXIS MACHINING CENTER



微量润滑，是利用气液两相流体的混合物以高压雾化的方式喷射到加工区，雾化的质点颗粒在切削区高温作用下发生汽化相变，吸收大量切削热，从而实现对加工刀具冷却的一种润滑方式。对刀具切削刃及工件进行定点润滑冷却。

Minimum quantity lubrication uses a mixture of gas-liquid two-phase fluids to be sprayed into the processing area in a high-pressure atomization manner. The atomized particles act at high temperature in the cutting area. Vaporization phase change occurs under use, absorbing a large amount of cutting heat, thereby realizing a lubrication method for cooling the machining tool. Tool cutting edges and workpieces Fixed point lubrication and cooling.



行业应用 /Industry application

机器人关节、航天航空、精密零件、医疗配件、新能源汽车等产品加工
Product processing of robots' joints, aerospace and aviation, precision parts, medical accessories, new energy vehicles, etc.



技术参数

TECHNICAL SPECIFICATIONS

规格	Specification	单位 Unit	SHM-380A	SHM-380B	SHM-480B
五轴参数	五轴参数				
C轴盘面大小	Size of C-axis disk surface	mm	260	260	320
A/C轴额定扭矩	Rated torque of A/C axis	Nm	253/105	253/105	406/122
A/C轴额定转速	Rated rotational speed of A/C axis	rpm	200/200	200/200	50/100
A轴旋转角度	Rotation angle of A-axis	°	±110	±110	±110
五轴重量	Weight of five-axis	kg	220	220	240
五轴载重	Load capacity of five-axis	kg	50	50	120
主轴端面至五轴台面距离	Distance from the end face of the main shaft to the surface of the five-axis table	mm	60-430	60-550	80
加工范围	加工范围				
X轴行程	X-axis travel	mm	500	500	550
Y轴行程	Y-axis travel	mm	560	560	600
Z轴行程	Z-axis travel	mm	380	500	550
主轴中心至立柱导轨面距离	Distance from the center of the main shaft to the guide surface of the column	mm	445	425	540
主轴	主轴				
电机功率	Motor power	kw	7.5	7.5	7.5/7
电机扭矩	Motor torque	Nm	17.5	23.8	35.8/22
主轴转速	Spindle speed	rpm	20000	Max 15000	12000/15000
主轴直径	Spindle diameter	mm	100	120	100
主轴锥度	Spindle taper	/	BT30/BBT30	BBT40	BT40
三轴电机	三轴电机				
电机功率 X	Motor power X	kw	2.3	2.3	3.9
电机功率 Y	Motor power Y	kw	2.3	2.3	3.9
电机功率 Z	Motor power Z	kw	3.6	3.6	5.9
速度	速度				
切削进给速度范围	Cutting feed speed range	mm/min	5-15000	5-15000	5-12000/5-15000
X/Y/Z 轴快移速度	X/Y/Z axis rapid movement speed	m/min	36/36/36	36/36/36	36/36/36
机床精度	机床精度				
定位精度	Positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300
重复定位精度	Repeatability of positioning accuracy	mm	±0.003/300	±0.003/300	±0.003/300
刀库	刀库				
刀库容量	Tool magazine capacity	T	24	24/32	32
刀具最大直径(相邻空位)	Maximum tool diameter (Adjacent empty spaces)	/	60 (80)	60 (125)	80 (125)
刀具最大长度	Maximum tool length	mm	200	350	300
刀具最大重量	Maximum tool weight	kg	3	8	8
换刀时间(临近刀)	Tool change time (for adjacent tools)	Sec	2.0	1.8	1.6
其它	其它				
气压	Atmospheric pressure	Kgf/m ²	6	6	6
设备容量	Equipment capacity	KVA	12	12	12
气体流量	Gas flow rate	m ³ /min	0.15	0.15	0.15
机床外观尺寸约(长*宽*高)	Approximate dimensions of the machine (length * width * height)	mm	2100*2350*2500	2100*2350*2500	2500*2800*3500
机器重量(约)	Machine weight (approximate)	kg	约3600	约4200	约5000
系统	System	/	新代 F01-220MA-5-SEP-S		

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线轨加工中心

LINEAR RAIL MACHINING CENTER

最新的立式加工中心机，具备了业主和操作人员所需的改进，最新的控制系统拥有简洁的界面和强大的功能，控制界面智能化、功能多样化，多点触摸屏易操作，并速度更快，加工精度更高。

The latest vertical machining center features the improvements required by the owners and operators. The latest control system has a simple interface and powerful functions. The control interface is intelligent and the functions are diverse. The multi-point touch screen is easy to operate and it is faster with higher processing accuracy.



行业应用 /Industry application

家用电器、精密模具、航空、五金、汽车、医疗器材等产品加工
Processing of household appliances, precision molds, aviation, hardware, automobiles, medical equipment, etc.



技术参数

TECHNICAL SPECIFICATIONS

线轨加工中心

规格	Specification	单位 Unit	SHM-V8	SHM-V1060	SHM-V1165	SHM-V1270
行程 Itinerary						
工作台X轴行程	Worktable X-axis travel	mm	800	1000	1100	1200
工作台Y轴行程	Worktable Y-axis travel	mm	500	600	630	700
头部Z轴行程	Head Z-axis travel	mm	500/550	600	600	700
主轴鼻端至工作台距离	Distance from the spindle nose to the worktable	mm	120-620	110-710	150-750	110-870
主轴中心至立柱距离	Distance from the spindle center to the column	mm	556	668	690	768
工作台 Workbench						
工作台尺寸	Worktable size	mm	1000*500	1200*600	1300*680	1300*700
最大承重	Maximum load capacity	kg	800	800	1000	1000
T型槽数	Number of T-slot slots	/	3/5	5	5	7
T型槽尺寸	Size of T-slot	mm	18	18	18	18
主轴 Spindle						
主轴转速（标配）	Spindle speed (standard)	rpm	12000	12000	10000	10000
主轴转速（选配）	Spindle speed (optional)	rpm	10000/15000	10000/15000	8000/12000	8000/12000
主轴马力	Spindle horsepower	kw	7.5/11	7.5/11	11	11/15
主轴端规格	Spindle end specification	/	BT40	BT40/BBT40	BT40	BT40/BBT40
进给 Feed rate						
X/Y轴快速进给	X/Y-axis rapid feed	mm/min	48000	48000	36000	30000
Z轴快速进给	Z-axis rapid feed	mm/min	48000	48000	36000	30000
三轴切削进给	Three-axis cutting feed	mm/min	1-10000	1-10000	1-10000	1-10000
其他 Other						
三轴马达功率	Three-axis motor power	kw	2/2/3	2/2/3	3/3/3	3/3/3
定位精度	Positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300
重复定位精度	Repeatability positioning accuracy	mm	±0.003/300	±0.003/300	±0.003/300	±0.003/300
切削水泵浦	Cutting water pump	HP	1/2	1/2	1/2	1/2
电力需求	Power requirement	KVA	35	35	35	35
空压规格	Air compressor specification	dar	6-7	6-7	6-7	6-7
机械重量约	Estimated machine weight	kg	5500	7500	9000	9800
机床外形尺寸	Machine external dimensions	mm	2600*2500*2500	3150*2600*2600	3100*2550*2550	3400*2850*2800
控制器	Controller	/	MISUBISHI: M80A/M80B, FANUC: 0i-MF, SINUMERIK 828D			

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两线一硬加工中心

规格	Specification	单位 Unit	SHM-850L	SHM-1060L	SHM-1580L	SHM-1890L
行程 Itinerary						
工作台X轴行程	Worktable X-axis travel	mm	800	1000	1500	1800
工作台Y轴行程	Worktable Y-axis travel	mm	500	600	800	900
头部Z轴行程	Head Z-axis travel	mm	550	600	700	800
工作台 Workbench						
工作台尺寸	Worktable dimensions	mm	1050*500	1300*600	1700*800	1970*1000
最大承重	Maximum load capacity	kg	600	900	1500	1600
T型槽（宽*槽数*间距）	T-slot (width * number of slots * spacing)	mm	18*5*100	18*5*100	22*5*135	18*7*120
进给 Feed rate						
X/Y轴快速进给	X/Y-axis rapid feed	mm/min	24000	24000	18000	18000
Z轴快速进给	Z-axis rapid feed	mm/min	15000	15000	15000	15000
主轴 Spindle						
主轴转速	Spindle speed	rpm	8000	8000	8000	6000
主轴规格	Spindle specification	/	BT40	BT40	BT50	BT50
主轴马力	Spindle horsepower	kw	7.5/11	11/15	15/18.5	18.5/22
机床精度 Machine tool accuracy						
定位精度	Positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300
重复定位精度	Repeatability positioning accuracy	mm	±0.003/300	±0.003/300	±0.003/300	±0.003/300
其他 Other						
机械重量约	Approximate mechanical weight	kg	5500	7500	12000	14000
机床外形尺寸	Machine tool external dimensions	mm	2700*2400*2500	3300*2700*2900	4300*3250*3300	5100*3400*3300
控制器	Controller	/	MISUBISHI: M80A/M80B, FANUC: 0i-MF, SINUMERIK 828D			

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高速钻铣加工系列

HIGH-SPEED DRILLING AND MILLING SERIES

最新的高速钻铣加工中心机，具备了业主和操作人员所需的改进，最新的控制系统拥有简洁的界面和强大的功能，控制界面智能化、功能多样化，多点触摸屏操作，并速度更快，加工精度更高。

The latest high-speed drilling and milling machining center has incorporated the improvements required by the owners and operators. The latest control system features a simple interface and powerful functions. The control interface is intelligent and the functions are diverse. The multi-point touch screen is easy to operate and it is faster with higher processing accuracy.



行业应用 /Industry application

精密零件、汽配、钟表、通讯、模具等产品加工
Processing of precision parts, auto parts, watches, communications, molds, etc.



机械特性

MECHANICAL PROPERTIES

- 超大型立柱稳固，不变形能高速位移48m/分；
The super large column is stable and can move at a high speed of 48m/min without deformation;
- 超大跨距底座，采六点支撑结构扎实，高速位移，不震动、不变形；
The super-large-span base adopts a solid six-point support structure and can move at high speed without vibration or deformation;
- 三轴高速位移48m/分，速度快，节省加工时间；
The three-axis high-speed displacement is 48m/min, which is fast and saves processing time;
- 用高性能AC主轴伺服马达与人性化的对话式界面，便于操作；
Use high-function AC spindle servo motor and humanized conversational interface for easy operation;
- 切削手轮进给模式，减少下刀撞机几率。
Cutting handwheel feed mode reduces the chance of tool collision.

技术参数

TECHNICAL SPECIFICATIONS

规格	Specification	单位 Unit	SHM-T6	SHM-T7	SHM-T8	SHM-T10
行程	Itinerary					
工作台X轴行程	Worktable X-axis travel	mm	600	700	800	1000
工作台Y轴行程	Worktable Y-axis travel	mm	400	400	500	500
头部Z轴行程	Head Z-axis travel	mm	350	350	350	350
主轴鼻端至工作台距离	Distance from the nose of the spindle to the worktable	mm	150-500	100-550	100-550	150-500
工作台	Workbench					
工作台尺寸	Workbench size	mm	700*420	780*420	900*500	1100*500
最大承重	Maximum load capacity	kg	250	250	250	250
主轴	Spindle					
主轴转速	Spindle speed	rpm	20000	20000	20000	20000
主轴端规格	Spindle end specification	/	BT30/φ100	BT30/φ100	BT30/φ100	BT30/φ100
进给	Feed rate					
X/Y轴快速进给	X/Y axis rapid feed	mm/min	48000/48000	48000/48000	48000/48000	48000/48000
Z轴快速进给	Z axis rapid feed	mm/min	48000	48000	48000	48000
三轴切削进给	Three-axis cutting feed	mm/min	1-10000	1-10000	1-10000	1-10000
进给	Feed rate					
X轴滚珠丝杆规格 (#)	X axis ball screw specification (#)	/	2816	2816	2816	3616
Y轴滚珠丝杆规格 (#)	Y axis ball screw specification (#)	/	2816	2816	2816	3216
Z轴滚珠丝杆规格 (#)	Z axis ball screw specification (#)	/	3216	3216	3216	3216
其他	Other					
X轴线轨规格 (#)	X axis linear guide rail specification (#)	/	HGH30HA	HGH30HA	HGH30HA	HGH30HA
Y轴线轨规格 (#)	Y axis linear guide rail specification (#)	/	HGH30HA	HGH30HA	HGH30HA	HGH30HA
Z轴线轨规格 (#)	Z axis linear guide rail specification (#)	/	HGH35HA	HGH35HA	HGH35HA	HGH35HA
其他	Other					
定位精度	Positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300
重复定位精度	Repeatability positioning accuracy	mm	±0.003/300	±0.003/300	±0.003/300	±0.003/300
机械重量约	Estimated machine weight	kg	3600	3700	4500	5000
机床外形尺寸	Machine external dimensions	mm	1900*2500*2500	2000*2500*2500	2300*2700*2500	2400*2500*2500
控制器	Controller	/	MISUBISHI: M80A/M80B, FANUC: 0i-MF, SINUMERIK 828D			

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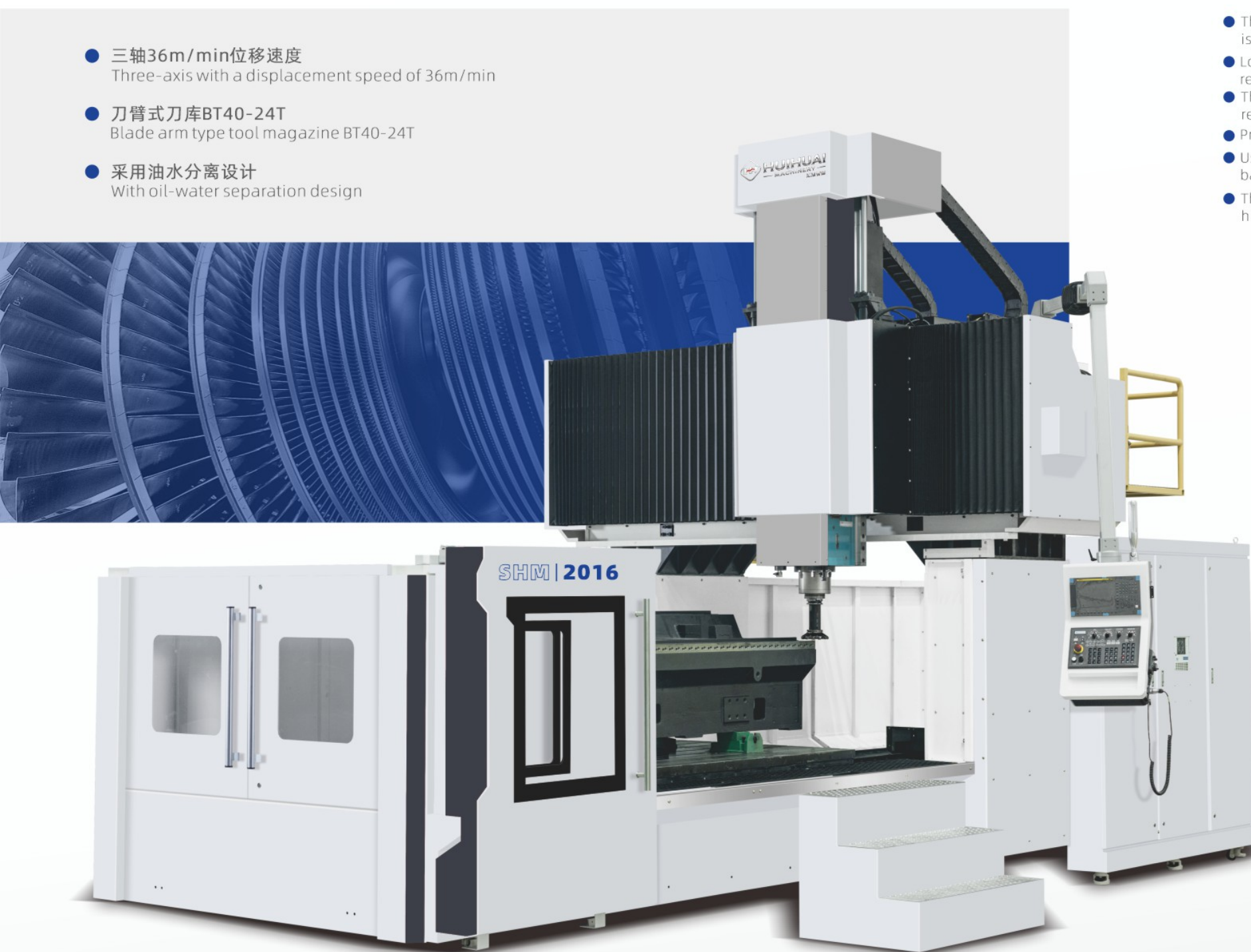
龙门加工系列

GANTRY PROCESSING SERIES

秉持优良的传统，坚持用最佳的结构配置，做为产品高精度基础，再以厚实与轻量仅兼顾的设计原则，为产品创造出高速切削下所需的高刚性及高性能化

Adhering to the excellent tradition and maintaining the best structural configuration as the foundation for the product's high precision, and then following the design principles of both thickness and lightness while also considering balance, the product can be created with the required high rigidity and high performance under high-speed cutting conditions.

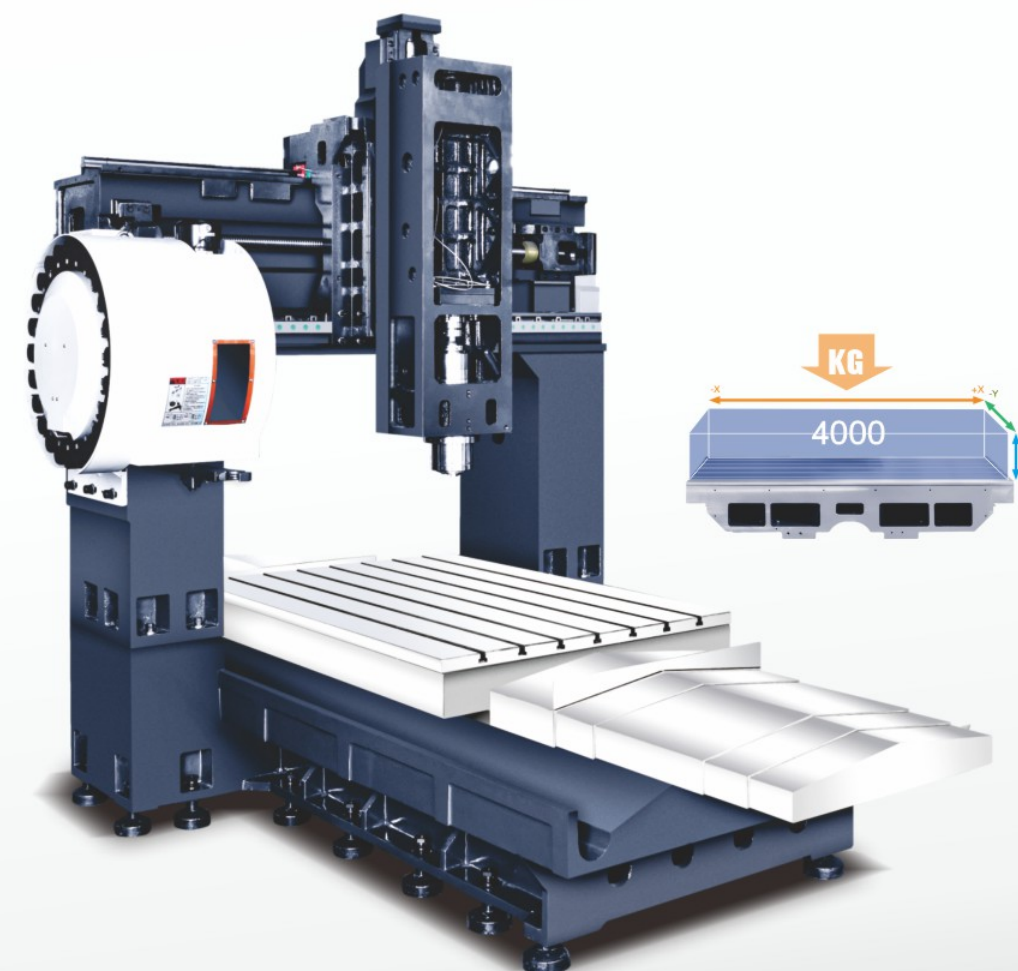
- 三轴36m/min位移速度
Three-axis with a displacement speed of 36m/min
- 刀臂式刀库BT40-24T
Blade arm type tool magazine BT40-24T
- 采用油水分离设计
With oil-water separation design



机械特性

MECHANICAL PROPERTIES

- 立柱及底座一体成型铸造，具有足够的强度、刚性和稳定性，超宽底座带水槽设计，防漏效果更加；
 - 龙门型立柱及横梁一体成型铸造，刚性更高，结构更稳定，精度保持性更久；
 - 工作台采用采用密集性的筋板布置箱型结构，有完善的手段消除余力，保证整机具有足够的强度、刚性和稳定性；
 - 产品模块化设计，可以按市场需求进行产品系列化客户化制造；
 - 利用有限元分析(FEA)先进观念，设计高刚底座、一体门桥及运动灵敏高刚滑枕座等重要结构零件；
 - 三轴采用滚柱线轨，低摩擦、无间隙、高刚性、高精度，从而实现高速高精加工。
- The column and base are integrally formed and cast, with sufficient strength, rigidity, and stability. The ultra wide base is designed with a water tank, which has a more leak proof effect;
 - Longmen type columns and beams are integrally cast, with higher rigidity, more stable structure, and longer precision retention;
 - The workbench adopts a box shaped structure with dense rib plate arrangement, which has perfect means to eliminate residual force, ensuring that the whole machine has sufficient strength, rigidity, and stability;
 - Product modular design allows for customized manufacturing of product series according to market demand;
 - Using advanced concepts of finite element analysis (FEA), design important structural components such as high stiffness base, integrated door bridge, and motion sensitive high stiffness slider seat;
 - The three-axis adopts roller track, which has low friction, no clearance, high rigidity, and high precision, thus achieving high-speed and high-precision machining.



技术参数

TECHNICAL SPECIFICATIONS

三线轨

规格	Specification	单位 Unit	SHM-V1614	SHM-V2016	SHM-V2518	SHM-V3018
工作台行程(X轴)	Workbench travel (X-axis)	mm	1750	2100	2600	3100
滑鞍行程(Y轴)	Saddle travel (Y-axis)	mm	1420	1650	1850	1850
主轴箱行程(Z轴)	Spindle box travel (Z-axis)	mm	800	800	800	800
龙门宽度	Gantry width	mm	1420	1650	1850	1850
工作台尺寸	Workbench size	mm	1700*1200	2200*1400	2600*1600	3100*1600
工作台承重（均匀承重）	Workbench load-bearing capacity (uniform load-bearing capacity)	kg	3500	4000	4000	4000
T型槽(槽数-槽宽*间距)	T-slot (slot number - slot width * spacing)	mm	7-22*157.5	7-22*157.5	9-22/192.5	9-22/192.5
主轴鼻端到工作面距离	Distance from spindle nose to workbench surface	mm	150-950	150-950	150-950	150-950
主轴锥度	Spindle taper	/	BBT/BT40	BBT/BT40	BBT/BT40	BBT/BT40
主轴直径	Spindle diameter	mm	Φ150	Φ150	Φ150	Φ150
主轴电机转速	Spindle motor speed	rpm	12000（直接式）	12000（直接式）	12000（直接式）	12000（直接式）
三轴导轨规格X、Y、Z	Specifications of three-axis guideways X, Y, Z	mm	45/45/45	45/45/45	55/55/45	55/55/45
三轴丝杠规格X、Y、Z	Specifications of three-axis lead screws X, Y, Z	mm	Φ50/Φ50/Φ50	Φ50/Φ50/Φ50	Φ50/Φ50/Φ50	Φ63/Φ50/Φ50
切削进给速度范围	Cutting feed speed range	mm/min	1-8000	1-8000	1-8000	1-8000
X/Y/Z轴快移速度	Fast moving speed of X/Y/Z axes	m/min	16/16/16	16/16/16	16/16/16	16/16/16
定位精度（X/Y/Z）	Positioning accuracy (X/Y/Z)	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300
刀库容量	Tool magazine capacity	把	24	24	24	24
刀柄类型	Tool holder type	kg	BT40	BT40	BT40	BT40
机器重量（约）	Machine weight (approximate)	T	14.5	16.5	20	21
数控系统	Numerical control system		三菱MITSUBISHI/法那科FANUC			

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两线一硬

规格	Specification	单位 Unit	SHM-2016	SHM-2516	SHM-2518	SHM-3022
工作台行程(X轴)	Workbench travel (X-axis)	mm	2000	2500	2500	3000
滑鞍行程(Y轴)	Saddle travel (Y-axis)	mm	1700	1700	1900	2200
主轴箱行程(Z轴)	Spindle box travel (Z-axis)	mm	800	800	800	1000
龙门宽度	Gantry width	mm	1700	1700	1900	2300
工作台尺寸	Workbench size	mm	1400*2100	1400*2600	1600*2700	2000*3000
工作台承重（均匀承重）	Workbench load-bearing capacity (uniform load-bearing capacity)	kg	4000	5000	5500	10000
T型槽(槽数-槽宽*间距)	T-slot (slot number - slot width * spacing)	mm	7-22*200	7-22*200	9-22*180	9-28/200
主轴鼻端到工作面距离	Distance from spindle nose to workbench surface	mm	200-1000	200-1000	200-1000	280-1280
主轴锥度	Spindle taper	/	BT50	BT50	BT50	BT50
主轴直径	Spindle diameter	mm	Φ190	Φ190	Φ190	Φ200
主轴电机转速	Spindle motor speed	rpm	6000（皮带式）	6000（皮带式）	6000（皮带式）	6000（皮带式）
X、Y轴导轨规格，Z轴硬轨	Specifications of X/Y axis guideways, Z-axis hard rail	KW	55/55	55/55	55/55	55/55
三轴丝杠规格X、Y、Z	Specifications of three-axis lead screws X, Y, Z	mm	Φ50/Φ50/Φ50	Φ63/Φ50/Φ50	Φ63/Φ50/Φ50	Φ80/Φ63/Φ50
切削进给速度范围	Cutting feed speed range	mm	1-8000	1-8000	1-8000	1-8000
X/Y/Z轴快移速度	Fast moving speed of X/Y/Z axis	mm/min	15/15/10	15/15/12	15/15/12	12/12/12
定位精度（X/Y/Z）	Positioning accuracy (X/Y/Z)	m/min	±0.005/300	±0.005/300	±0.005/300	±0.005/300
机器重量（约）	Machine weight (approximate)	T	16	17.5	20	35
数控系统	Numerical control system		三菱MITSUBISHI/法那科FANUC			

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主轴 The spindle

可选主轴的各种规格
Spindle specifications are available

BT40	12000/15000
BBT40	12000/15000
HSK-A63	15000/18000
	24000转电主轴 24000 to motorized spindle
	30000转电主轴 30000 to motorized spindle

内藏式主轴电机

高扭矩的马达与主轴直接构成一体，使动力损失最小化。因此加工效率非常卓越。冷却液直喷轴承的冷却方式，马达和床身也同时冷却使热变形最小化，保证了加工品质。

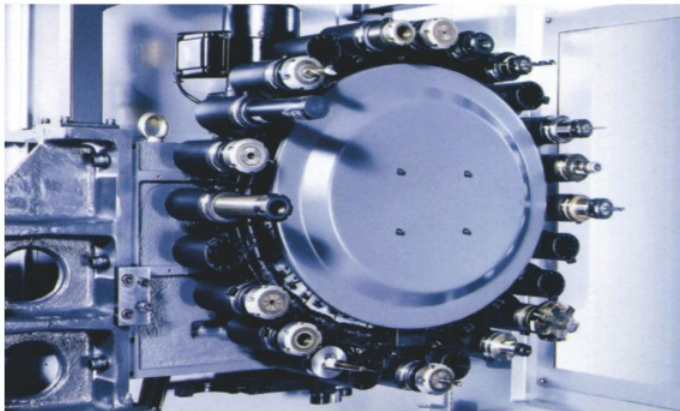
Built-in spindle motor

The high torque motor is integrated directly into the spindle to minimize power loss. So the processing efficiency is very excellent. The cooling mode of the coolant direct injection bearing, the motor and the bed are cooled simultaneously to minimize the thermal deformation and ensure the processing quality.

刀库 Knife library

各种规格的刀库
Knife library of various specifications

项目 project	刀柄规格 The handle size	
	BT40、BBT40、HSK-A63	
刀具储存数量 Tool storage quantity	圆盘式、链式 Disc, chain	
刀具选择方式 Tool selection mode	24、32、40、52	
换刀类型 Change the knife type	旋转换刀臂 Rotate tool changing arm	



选配装置 Optional device



光栅尺 (选配)

为了以提高定位精度，并修正因热位移导致的轴坐标偏差，各轴都可选装绝对式光栅尺。
Grating ruler (optional)
In order to improve positioning accuracy and correct axis coordinate deviation caused by thermal displacement, absolute grating ruler can be installed on each axis.



自动测量系统 (选配)

机床开始作业时，可以对于工件和刀具的必要测量工序进行自动化测量，并且能自动输入必要的补偿数据。

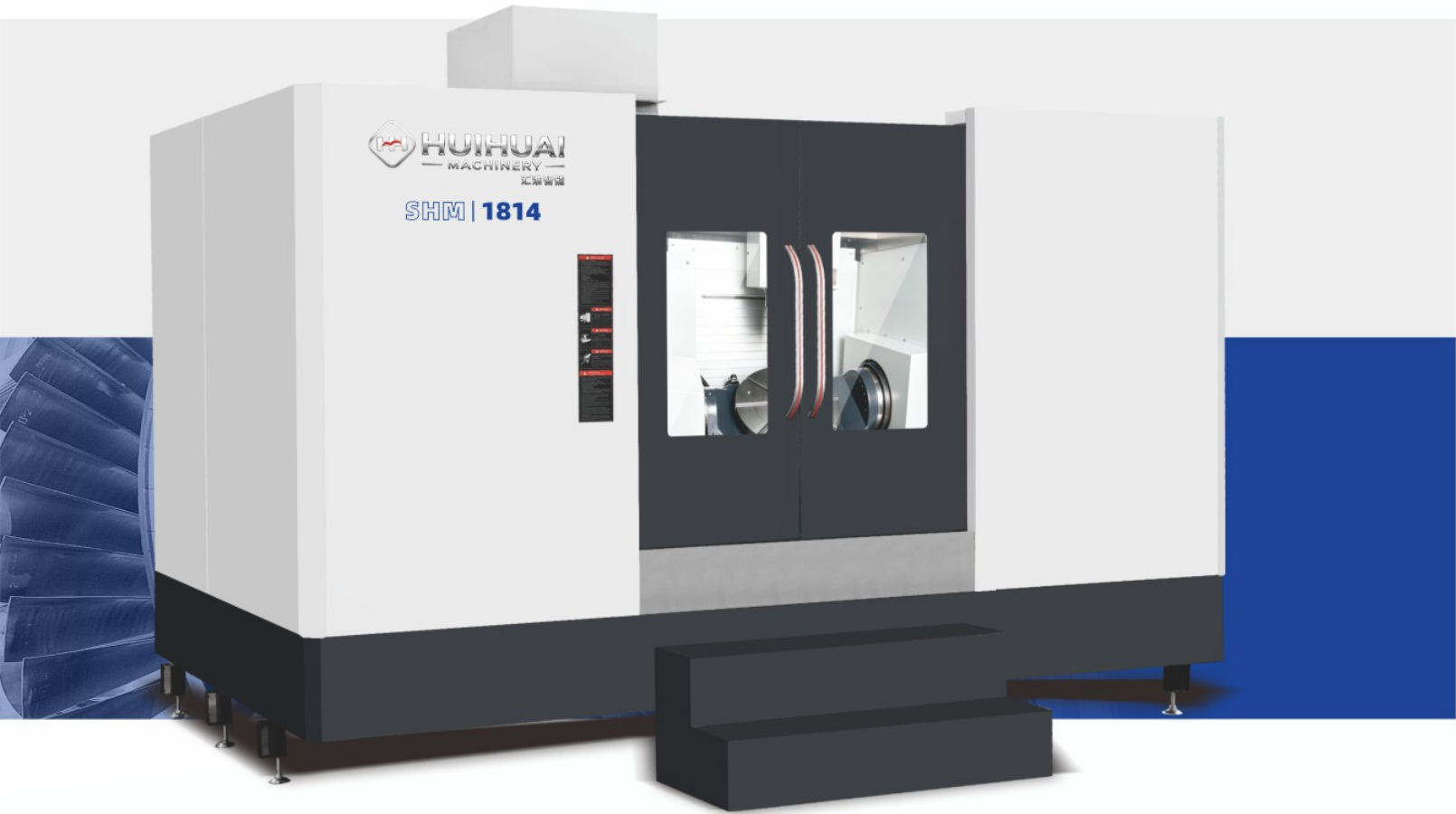
卧式加工系列

HORIZONTAL PROCESSING SERIES



以用户为中心，采用人性化设计，具有高刚性、高精密的加工性能。让顾客无论在普通零件还是硬切削零件加工应用中，均可获得完美的解决方案

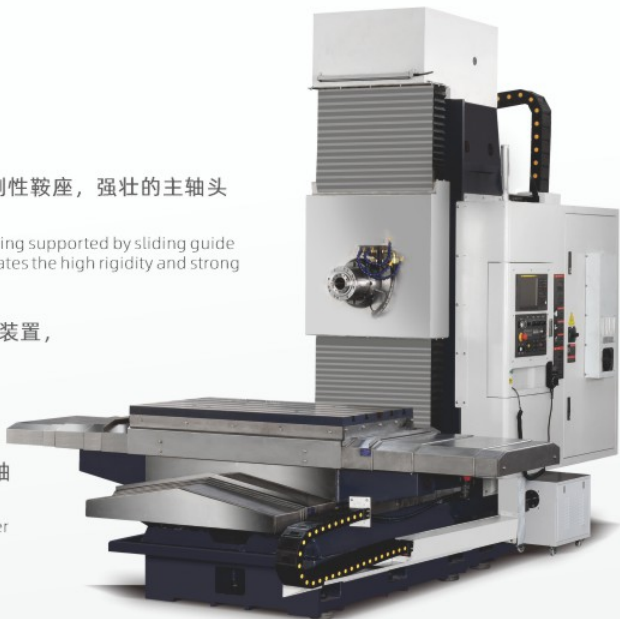
Centered on users, with humanized design, it features high rigidity and high precision processing performance. This enables customers to obtain perfect solutions whether in the processing of ordinary parts or hard cutting parts.



机械特性

MECHANICAL PROPERTIES

- 座底为到T字型结构，具有结构刚性高并采用滑动导轨支撑，龙门型立柱，高刚性鞍座，强壮的主轴头部体现出机床的高刚性、强能力；
The base of the machine tool adopts a T-shaped structure, featuring high structural rigidity and being supported by sliding guide rails, a gantry-type column, a high-rigidity saddle, and a strong main shaft head, which demonstrates the high rigidity and strong capabilities of the machine tool.
- 数控转台采用高刚性洛合金铜涡轮，耐磨持久，分割稳定性高，双重强力锁紧装置，锁紧面超大，耐重切削；
The CNC turntable is equipped with a high-strength alloy copper turbine, which is wear-resistant and durable. It has excellent stability during segmentation. It features a dual strong locking mechanism with an extremely large locking surface, which is highly resistant to heavy cutting.
- 主轴电机标配高扭矩广义马达，BT50主轴外径 $\phi 190\text{mm}$ 高刚性台湾主轴，主轴最高转速可达8000rpm,兼具高刚性和高精度的特点。
The spindle motor is equipped with a high-torque generalized motor. The BT50 spindle has an outer diameter of $\phi 190\text{mm}$ and is a highly rigid Taiwanese spindle. The spindle can reach a maximum rotational speed of 8000 rpm, featuring both high rigidity and high precision.



技术参数

TECHNICAL SPECIFICATIONS

规格	Specification	单位 Unit	SHM-L1075	SHM-L1270	SHM-L1814
行程	Itinerary				
X轴行程	X-axis travel	mm	1000	1200	1800
Y轴行程（主轴上下移动轴）	Y-axis travel (spindle up and down movement axis)	mm	750	750	1400
Z轴行程	Z-axis travel	mm	600	720	900
主轴中心到工作台面距离	Distance from spindle center to worktable surface	mm	70-800	165-915	30-1430
三轴轨道	Three axis orbit				
轨道设计	Track design	/	两线一硬	三轴滚柱	两线一硬
轨道宽度（X、Y、Z）	Track width (X, Y, Z)	mm	45/硬轨/55	45/45/55(Z轴2轨道)	55/硬轨/45
丝杆直径/锣距	丝杠 diameter / pitch	/	4012/5010/4012	4010/4010/4010	5512/5010/5512
主轴	Spindle				
主轴样式	Spindle style	/	BT50	BT40	BT50
主轴直径	Spindle diameter	/	$\phi 190$	$\phi 150/\phi 155$	$\phi 190$
主轴传动方式(标配)	Spindle transmission method (standard)	/	皮带式	皮带式	皮带式
主轴传动方式(选配)	Spindle transmission method (optional)	/	直接式	直接式	直接式
主轴转速(标配)	Spindle speed (standard)	rpm	6000	8000	6000
主轴转速(选配)	Spindle speed (optional)	rpm	8000	10000	8000
进给	Feed rate				
XYZ快速进给	XYZ rapid feed	m/min	12/12/12	20/20/20	12/12/12
XYZ轴最小设定单位	Minimum setting unit for XYZ axes	/	0.001	0.001	0.001
工作台最小分度单位（度）	Minimum division unit of worktable (degrees)	/	1	1	1
切削进给速度	Cutting feed speed	m/min	10	10	10
工作台	Workbench				
工作台尺寸	Worktable size	mm	1300X600	1380X600	2000X900
T型槽（宽 * 数）	T-slot (width * number)	mm	5-18-100	5-18-110	5-22-165
最大荷重	Maximum load	kg	800	900	1600
机床精度	Machine tool accuracy				
定位精度(JIS6338)	Positioning accuracy (JIS6338)	mm	$\pm 0.005/300$	$\pm 0.005/300$	$\pm 0.005/300$
重复精度(JIS6339)	Repeatability accuracy (JIS6339)	mm	± 0.003	± 0.003	± 0.003
自动换刀系统（选配）	Automatic tool change system (optional)				
刀库容量	Tool magazine capacity	T	圆盘24T	圆盘24T	圆盘24T
刀柄型式	Tool holder type	/	BT50	BT40	BT50
换刀时间(T-T)	Tool change time (T-T)	/	圆盘3sec	圆盘2sec	圆盘3sec
最大刀具径/邻空刀具直径	Maximum tool diameter / adjacent tool diameter	/	$\phi 125/\phi 225$	$\phi 110/\phi 220$	$\phi 125/\phi 225$
最大刀具长度	Maximum tool length	mm	400mm	400	400
最大刀具重量	Maximum tool weight	KG	18KG	8KG	18
其他	Other				
主轴马达功率	Spindle motor power	KW	15	11 (BT40/11)	18.5
三轴马达功率	Three-axis motor power	KW	3.0/3.0/3.0	3.0/3.0/3.0	4.5/4.5/4.5
机械净重(约)	Net weight of machinery (approximate)	KG	8000	7500	13000
润滑油箱容量	Oil tank capacity	/	4L	4L	4L
电力需求	Power requirement	KVA	35KVA	35KVA	40KVA
气压单元压力需求	Air pressure unit pressure requirement	MPA	0.6MPA	0.6MPA	0.6MPA
外型尺寸	Overall dimensions	mm	3800 * 3000 * 3000	3600 * 3000 * 2900	5000X5000X3500
控制器	Controller		三菱MITSUBISHI 发那科FANUC		

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MACHINE TOOL EQUIPMENT

APPLICATION RANGE

机床设备应用范围

运用领域

Application Domain

1、电子模切	Electronic die-cutting
2、FPC 新能源线路板	FPC new energy circuit board
3、3C 零件产品	3C component products
4、医疗设备	Medical equipment
5、精密表业	Precision watch industry
6、风电光伏	Wind power and photovoltaic energy
7、汽车零部件	Automobile parts
8、半导体辅料	Semiconductor auxiliary materials
9、航空航天精密配件	Aerospace precision components