

※ Note: Some of the machine parameters and technical specifications are subject to change due to continuous technology improvement. Specific specifications are subject to negotiations and the sample parameters are for reference only.



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JIANGSU MICROMILL INTELLIGENT TECHNOLOGY CO., LTD.

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※注: 由于本公司技术不断的研发改良, 样本中部分机型参数, 技术规格如有变更, 具体规格以业务商谈时为准, 样本中的图片参数仅供参考。



精冠智能

FINE CRAFTSMANSHIP & DEDICATION

精工傳家·冠倫于心

—— 精冠機床全系列 ——

龙门加工系列 / 卧加加工系列 / 镗铣加工系列

立式加工系列 / 车床加工系列

Gantry Machining Center / Horizontal Machining Center

Boring & Milling Center / Vertical Machining Center

Lathe Machining Center

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品质升级
QUALITY UPGRADE

A⁺ INTELLIGENT MANUFACTURING

智能制造转化中心
可提供自动化技术支持



公司介绍 COMPANY PROFILE

从这里开始，我们用专业、用心、领先的态度和能力诠释我们的理念——精工传家，冠伦于心。我们是一家以创新为驱动力，集研发、铸造、加工、钣金、装配于一体的大型数控机床专业制造企业。得益于中、台两岸数控机床设备制造的丰富经验，让我们快速发展，不断壮大。现阶段单月销售实绩已达 250 台年销售实绩达 3000 台以上。

我们依托多年来积累的丰富行业资源，坚强的技术背景，和领先同业的研发能力，为客户提供优质可靠的产品。并且根据不同客户的加工要求，提供专业、定制化的专用设备，协助客户解决各类加工生产问题。

我们坚持不断创新的理念，引进先进的技术和设备，并在人员科研和创新方面不断投入。通过与学术、研发单位紧密合作，打造了一支结合了海峡两岸专业技术人员、阵容强大的研发团队。他们经验丰富、充满热情、极具匠心精神，正是这些精益求精的员工，让我们取得了一个个的丰硕成果。

如今，精冠智能科技提供的产品包括：立式加工中心机、卧式加工中心机、双主轴双刀塔车铣复合加工机、立卧两用加工中心机、摇篮式五轴加工中心机、桥式五轴联动龙门加工中心机、轻型动柱龙门加工中心机、重型动柱动梁龙门加工中心机等这些产品，让我们在新能源汽车、航空航天、轨道交通、工程机械、风力发电等高端制作领域与客户开展密切合作。

为了确保产品的精度和质量，我们严格把控各项精密的检测项目，保证每一台交付客户的加工机床能够彻底展现卓越的品质和性能的可靠度。每一道精湛的工艺都源于科研人员默默地坚持，每一次品质的突破都源于技术人员严格的把关。

We would like to interpret our philosophy, Fine Craftsmanship & Dedication, with our professionalism, carefulness, forward-looking attitude and ability. We are a large-scale professional and innovation-driven manufacturer of CNC machine tools, integrating R&D, casting, machining, sheet metal processing and assembly. Relying on extensive experience in CNC machine tools manufacturing in China and Taiwan, we have been able to develop and grow rapidly. At present, our monthly sales volume has reached 250 units and the annual sales volume has reached more than 3000 units.

Having rich industrial resources accumulated over the years, strong technical background and leading R&D capabilities, we can provide customers with high quality and reliable products. We can also provide professional and customized equipment according to

customer's processing requirements to help customers solve all kinds of production problems.

We adhere to the concept of continuous innovation to introduce advanced technology and equipment, and continuously invest in R&D and innovation. Through close cooperation with academic and R&D institutions, we have built a strong R&D team with professional technicians both from China and Taiwan. They are highly experienced, passionate and professional. It is them who have achieved fruitful results one after another.

Nowadays, we can provide vertical machining centers, horizontal machining centers, dual-spindle and dual-turret turning and milling centers, vertical and horizontal machining centers, cradle type 5-axis machining centers, bridge type 5-axis gantry machining centers, lightweight movable column gantry machining centers, heavy-duty movable column and beam gantry machining centers, etc. These allow us to work closely with customers in the fields of new energy automobile, aerospace, railway transportation, engineering machinery and wind power generation.

In order to ensure the accuracy and quality of our products, we strictly control test items of precision equipment to ensure that every machine delivered to customers have superior quality and reliability. Each exquisite craftsmanship originates from the researchers' persistence and each quality breakthrough originates from the technicians' strict control.

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TO BE PROFESSIONAL

WITH SUPERB TECHNOLOGY
以精湛的技术，建立精冠智能的专业

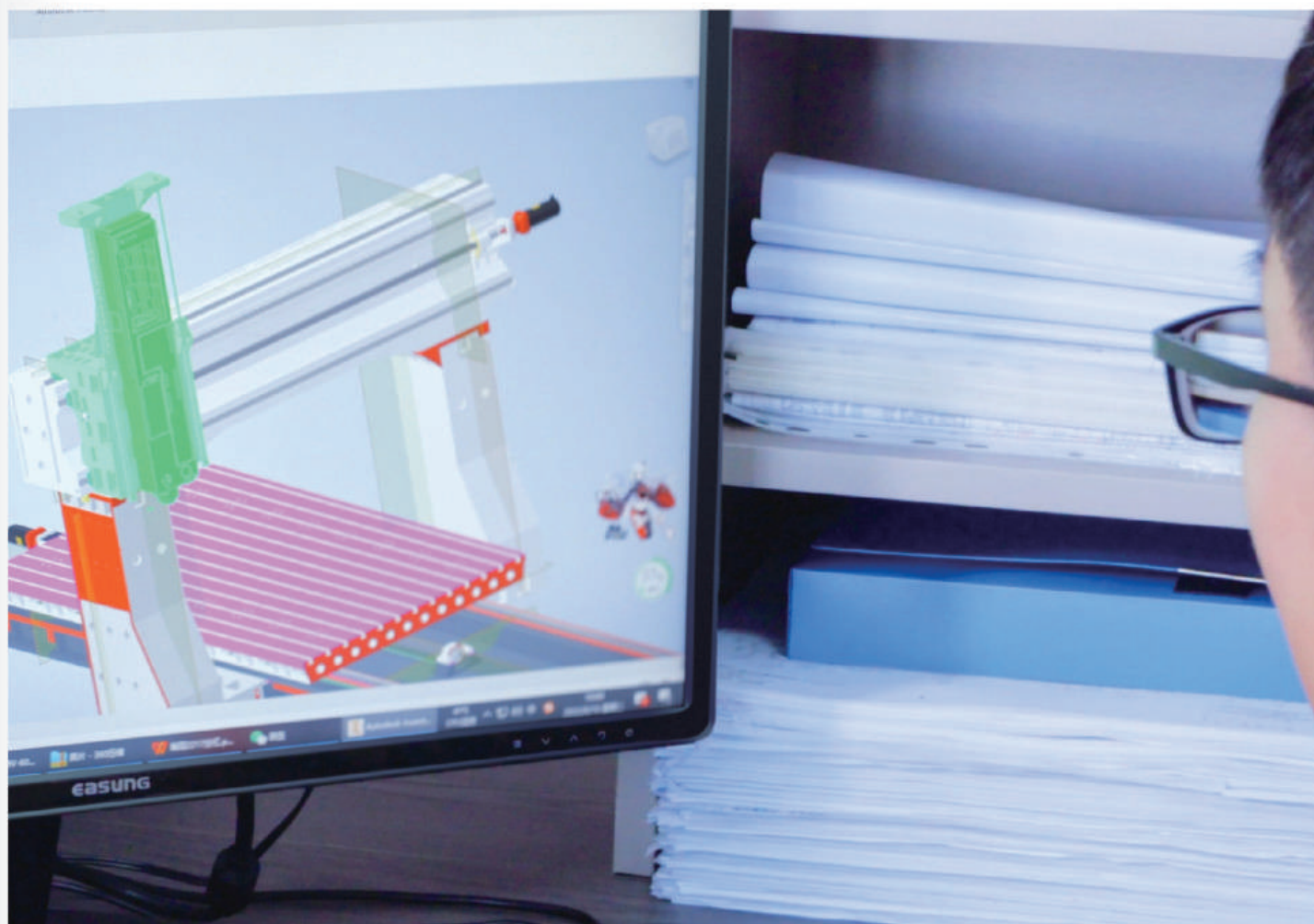


集研发、铸造、加工、钣金、装配于一体的大型企业

我们的实力: 具备坚强的技术背景, 领先同业的研发能力, 拥有多年的经验, 可迅速展开制造及量产, 并建立良好的管理制度较好的人脉基础, 容易进行行业内的整合及合作, 降低经营难度可根据不同客户的加工要求, 提供专业、客制化的专用设备。

Our strength: Having strong technical background, leading R&D capabilities and years of experience, we can quickly start manufacturing or mass production and develop a good management system. We also have a good network to easily carry out the integration and cooperation in the industry to reduce the operation difficulty. We can provide professional and customized equipment according to the requirements of different customers.





EXCELLENT QUALITY & PURSUIT OF EXCELLENCE

品质卓越，精益求精

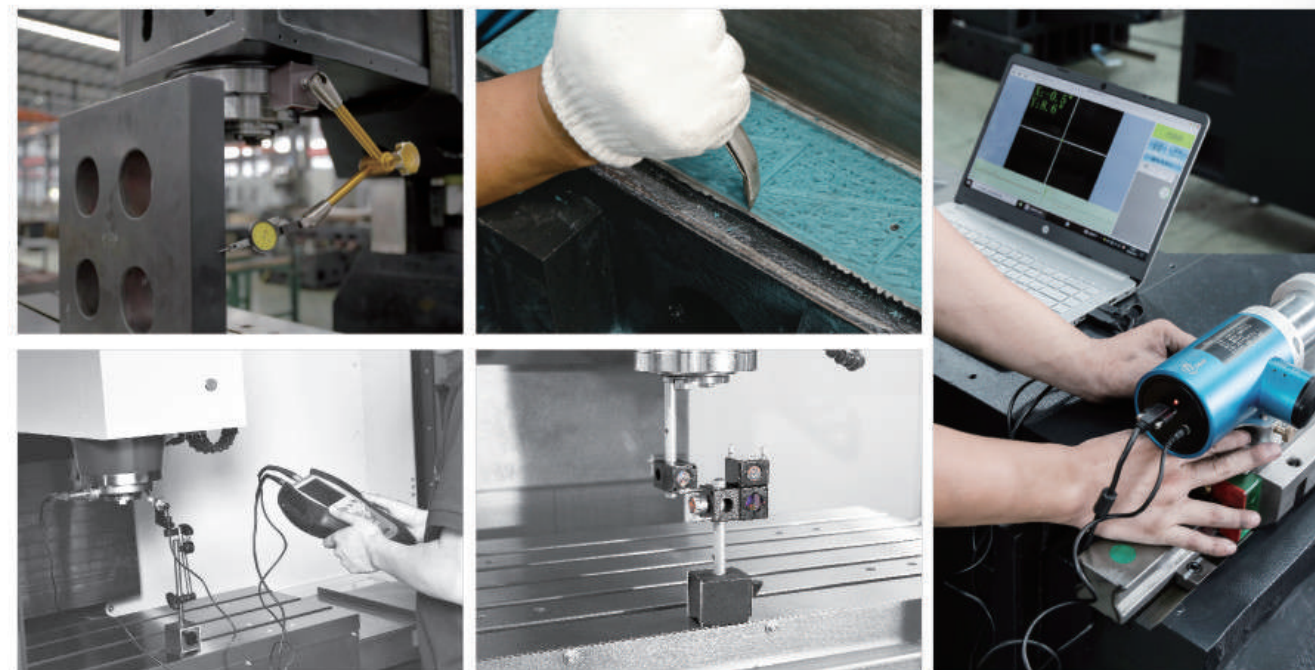
- ▶ 建立卓越有效的品质之路，使公司发展更具规范性。在产品制造领域，我们已取得多种行业权威认证。在企业经营领域，我们获得来自社会各方的积极认可，是品质、细节、认真、坚持让品牌更具活力！
- ▶ 结合海峡两岸的专业技术人员与学术、研发单位紧密合作。阵容坚强的研发团队（机构设计/计算机分析ANSYS、拓扑频谱、刚性）
- ▶ We are committed to excellence and quality to develop in a more regulated way. In the field of product manufacturing, we have obtained a variety of authoritative certifications. In terms of business operation, we have been fully recognized by all sectors of society. It is the quality, details, diligence and persistence that make the brand with high vitality.
- ▶ We work closely with professional technicians and academic/ R&D institutions from both China and Taiwan. We have a strong R&D team (mechanical design/computer ANSYS, topological spectrum and rigidity).



STRICTEST TESTING

严格检测是我们的保证

FIRST-CLASS PROCESSING EQUIPMENT TO ENSURE HIGH QUALITY AND PRECISION



为确保产品的精度，我们坚持所有检测项目都一丝不苟，配置全系列精密量测仪器，以确保产品精度与质量。每一个细节皆由专业训练的检验人员执行每一阶段的品质检测，使每一台机器都可彻底展现卓越非凡的品质与性能可靠度。

To ensure the accuracy of our products, we are determined to take the strictest testing for all items and we have a full range of precision measuring instruments to ensure the product accuracy and quality. Professional trained inspectors perform quality inspection at every stage to ensure that each machine has outstanding quality and reliable performance.

PROFESSIONAL, CAREFUL
FORWARD-LOOKING

专业、用心、领先



HIGH-PERFORMANCE GANTRY MACHINING CENTER

DMC-2718P

高性能龙门加工中心

- ▶ 全系列X/Y轴采用高刚性滚柱型线性滑轨，轴向系统兼具重载与快速移动等特色。
- ▶ 关键接触面皆经过严谨的手工铲花工艺，以确保极致精度与均衡负载。
- ▶ 所有结构件皆经过FEM有限元素分析，具有结构轻量化、设计合理化等优势，确保整机最佳化的结构刚性。
- ▶ 模组化的主轴设计。可搭配齿轮式或直连式主轴，满足精密模具或零件之加工需求。
- ▶ 广泛应用于汽车、航天、船舶、发电、轨道交通、模具、机械等行业，并远销海内外。
- ▶ The X and Y-axis use high-rigidity roller-type linear slide rails and the axial system can bear heavy load and move fast.
- ▶ The key contact surfaces are carefully hand-scraped to ensure the ultimate accuracy and load balance.
- ▶ All the structural parts have been analyzed by using FEM method and they are featured by lightweight and reasonable design to ensure the optimal structural rigidity of the whole machine.
- ▶ Modular spindle design can be coupled with gear spindle or direct drive spindle to meet the machining requirements of precision molds or parts.
- ▶ Widely used in automobile, aerospace, shipbuilding, power generation, rail transportation, mold and machinery industries, and sold well at home and abroad.



可转动控制箱：

可转动的座式操作箱控制面板，及可提式的手轮操作盒，极方便操作者任何位置使用，脚踏开关可以轻易将主轴头上刀具做夹松刀之操作。

ROTATABLE CONTROL BOX

The control panel of the pedestal-type rotatable control box and the liftable handwheel operation box are very convenient for the operator to operate in any position and the foot switch can be used to easily clamp or release the tool on the spindle head.



人工操作



手动操作



高速主轴



伺服驱动



18s



C3

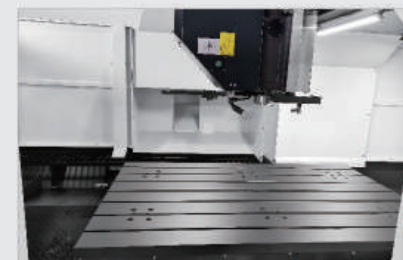


P

换刀速度 C3级丝杆 P级高精度丝杆



工作台承重: 6000kg, 工作台尺寸: 1600 × 2500mm
三轴行程: 2700 × 1800 × 1000mm
主轴转速: 6000rpm, 刀库容量: 24pcs



高性能、高效率：

系列化产品线，模组化设计，规格齐全，搭配多个类型之自动化交换头与立卧换刀系统，可实现全自动化、高效能与高生产性。

HIGH PERFORMANCE AND EFFICIENCY

Different product lines, modular design and complete specifications with multiple types of automatic changing heads and vertical/horizontal tool changers. Full automation, high efficiency and high productivity can be achieved.



- ▶ 严格的零件及装配检验流程，先进的检验器具及精密装配，保证每台机器达到最佳的工作精度。

Strict parts assembly and inspection process, advanced inspection instruments and precision assembly ensure that each machine has the best working accuracy.

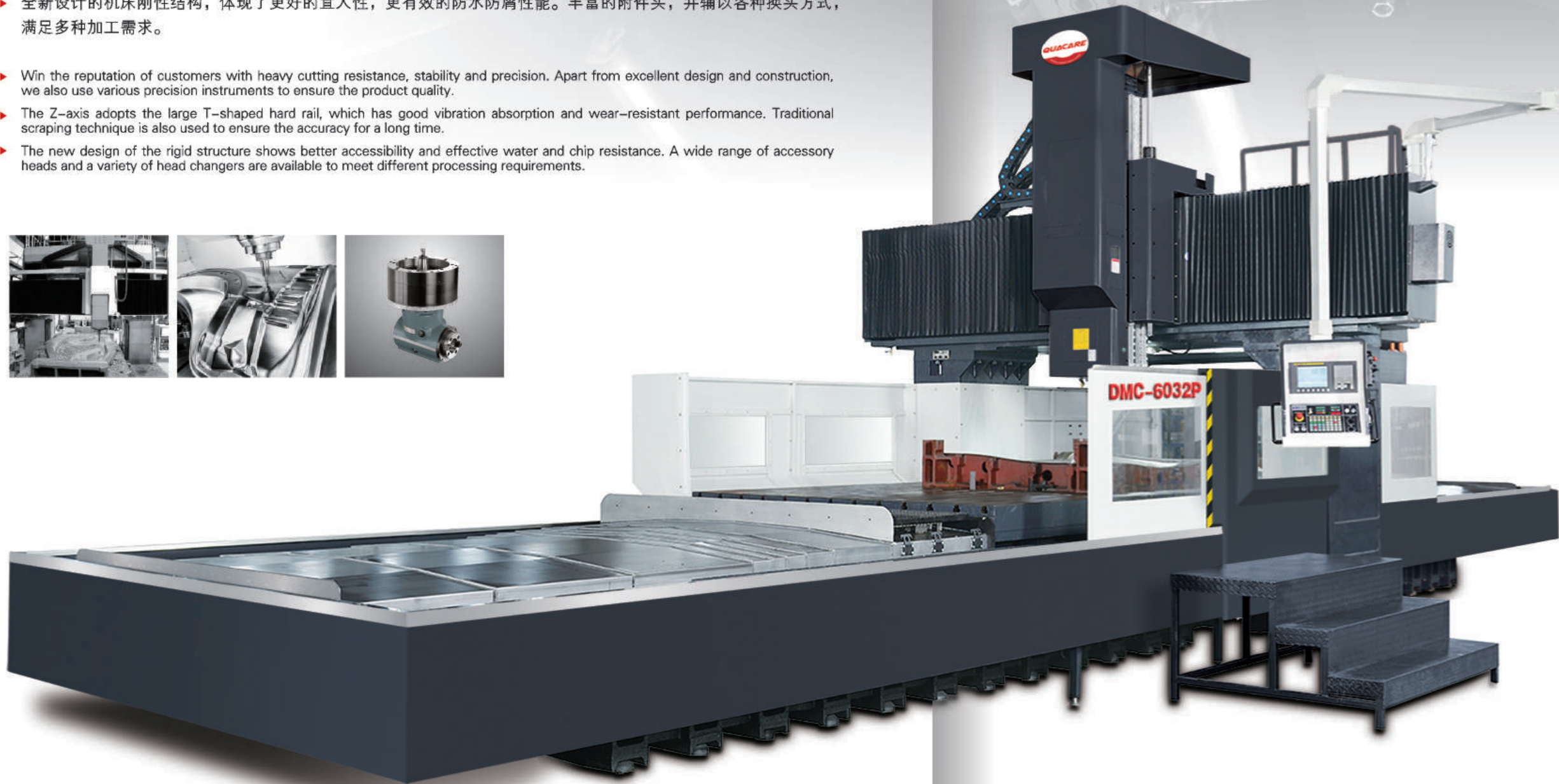


HIGH-PERFORMANCE GANTRY MACHINING CENTER

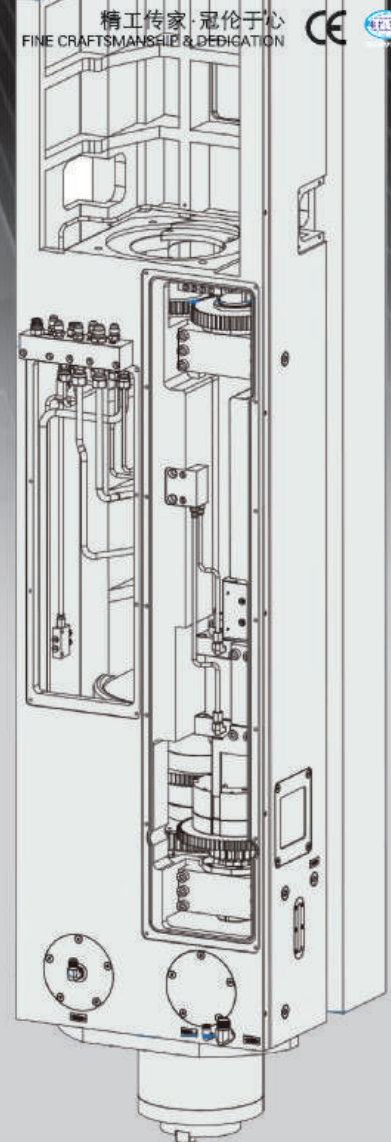
DMC-6032P

高性能龙门加工中心

- ▶ 以耐重切削、稳重、精密而赢得客户的口碑。其重要因素除了来自于精湛的设计与构造，更重要的是我们采用各式精密仪器，彻底为品质把关。
- ▶ Z轴采用硬轨大T型设计，有良好的吸震性及耐磨性能。配合传统铲花技艺，保证各项精度的长久稳定。
- ▶ 全新设计的机床刚性结构，体现了更好的宜人性，更有效的防水防屑性能。丰富的附件头，并辅以各种换头方式，满足多种加工需求。
- ▶ Win the reputation of customers with heavy cutting resistance, stability and precision. Apart from excellent design and construction, we also use various precision instruments to ensure the product quality.
- ▶ The Z-axis adopts the large T-shaped hard rail, which has good vibration absorption and wear-resistant performance. Traditional scraping technique is also used to ensure the accuracy for a long time.
- ▶ The new design of the rigid structure shows better accessibility and effective water and chip resistance. A wide range of accessory heads and a variety of head changers are available to meet different processing requirements.



工作台承重: 20000kg
工作台尺寸: 2700 × 6000mm
三轴行程: 6000 × 3200 × 1250mm
主轴转速: 6000rpm, 刀库容量: 24pcs



全齿式两档变速齿轮箱

高档1:1/低档1:4.3直接通过齿轮传动，传动平稳，而且效率高（超过95%）。全齿式齿轮箱换挡由液压控制，换挡稳定、可靠。由于主传动采用全齿两段式齿轮箱，大幅提升主轴低速扭矩（约4.3倍），从而提升用户使用较大直径刀具加工时的加工效率。

FULL TOOTH TWO SPEED TRANSMISSION GEARBOX

Cooperating with a full tooth two speed gearbox (high gear 1:1/low gear 1:4.3), it is directly transmitted through gears, ensuring smooth transmission and high efficiency (over 95%). The shifting of the full tooth gearbox is controlled by hydraulic pressure, ensuring stable and reliable shifting. Due to the use of a full tooth two-stage gearbox for the main transmission, the low speed torque of the main shaft is significantly increased (about 4.3 times), thereby improving the processing efficiency of users when using larger diameter cutting tools.

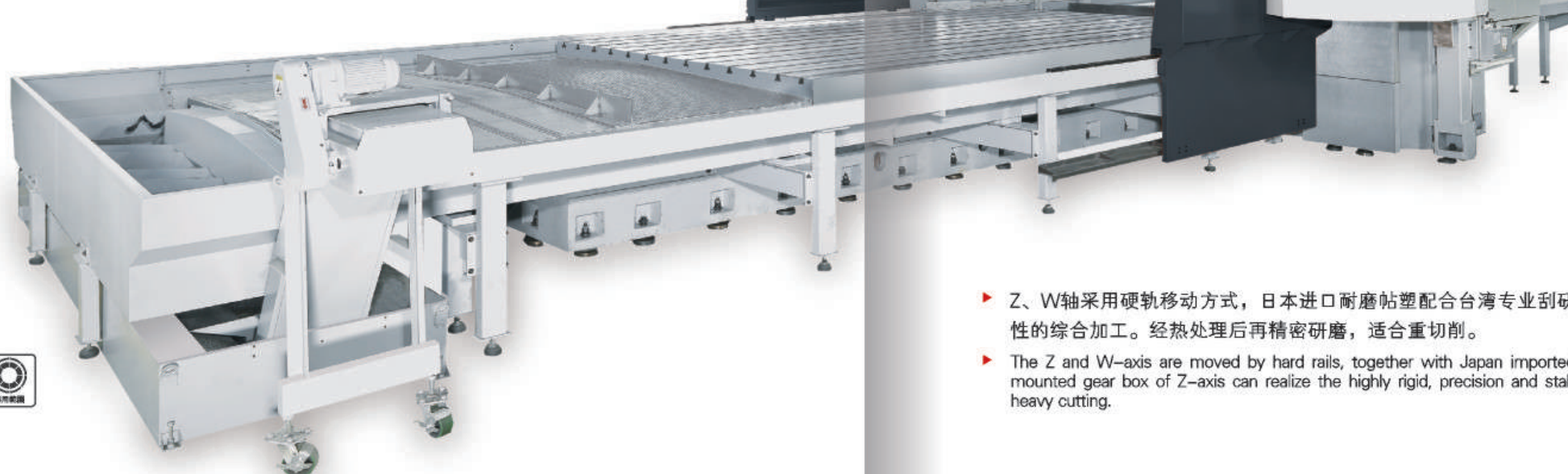
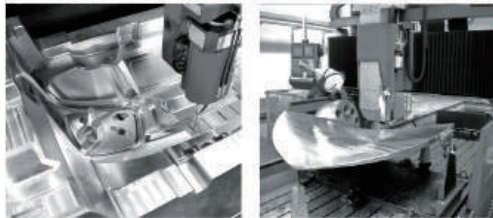
HIGH PERFORMANCE GANTRY MACHINING CENTER

DMC-8042P

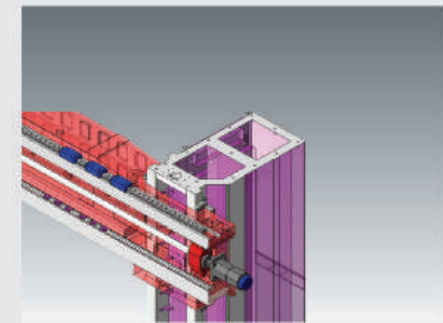
高性能龙门加工中心

- ▶ 床身底座、横梁、立柱、滑板、主轴箱等大件均采用米汉纳技术整体铸造。
- ▶ W轴横梁上下移动有效范围1000mm，Z轴硬轨方形滑枕(可选配4线轨方滑枕)行程500mm，可实现更高工件加工和薄件重切削。
- ▶ 通过内部筋骨结构优化设计及应力消除处理,大大提升整体结构的刚性及强度。
- ▶ 高刚性、重切削结构设计，全系列机型更兼具五面加工中心机的高精度指标，打造全方位高效能切削。

- ▶ Large parts such as bed base, cross rail, column, slide saddle and spindle case are all cast in one piece using Meehanite technology.
- ▶ The effective up/down movement range of W-axis cross rail is 1000mm and the square ram stroke of the Z-axis hard rail (optional 4-line rail square ram) is 500mm, so that higher part machining and heavy cutting of thin parts are possible.
- ▶ The rigidity and strength of the overall structure are greatly improved by means of the optimized design of the internal rib structure and stress relief treatment.
- ▶ High rigidity and heavy cutting structure design. The whole series of machines have the high precision of five-sided machining centers for high-efficiency cutting.



工作台承重: 35000kg, 工作台尺寸: 3500 × 8000mm
三轴行程: 8000 × 4200 × 1250mm
主轴转速: 6000rpm, 刀库容量: 24pcs



Y轴轨道特性

Y轴轨道组装使用双轨平行式，搭配滚柱与平面滑块组装，线轨能保持高速运行灵活性及直线运动，而平面滑块能高荷重使切削时能产生更高抗力并能保持滑座与横梁紧密贴合度与移动顺畅。

Y-AXIS RAIL CHARACTERISTICS

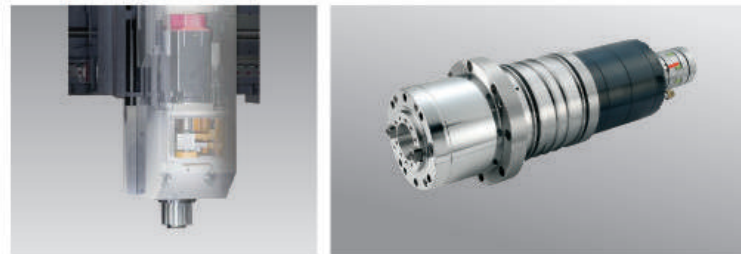
The Y-axis rails are assembled in parallel with rollers and plane sliders. The linear rail can maintain high-speed operation and straight movement while the plane slider can be highly loaded to produce higher resistance during cutting and can make the slide seat and cross rail closely fit together for smooth movement.

- ▶ Z、W轴采用硬轨移动方式，日本进口耐磨贴塑配合台湾专业刮研铲花，Z轴上置式齿轮箱可实现高刚性、高精度，高稳定性的综合加工。经热处理后再精密研磨，适合重切削。
- ▶ The Z and W-axis are moved by hard rails, together with Japan imported wear-resistant plastic and Taiwan scraping technique, the top-mounted gear box of Z-axis can realize the highly rigid, precision and stable machining. Precision grinding after heat treatment, suitable for heavy cutting.



精密主轴 PRECISION SPINDLE

极佳的精度及刚性
Excellent precision and rigidity



● 主轴组 SPINDLE SET

精冠智能所用主轴均为台湾原装进口。采用FAG/NSK轴承装配。可与齿轮传动输出之超大扭力完美结合；精度及刚性表现极佳。配置主轴油温冷却系统，确保主轴寿命及加工精度。

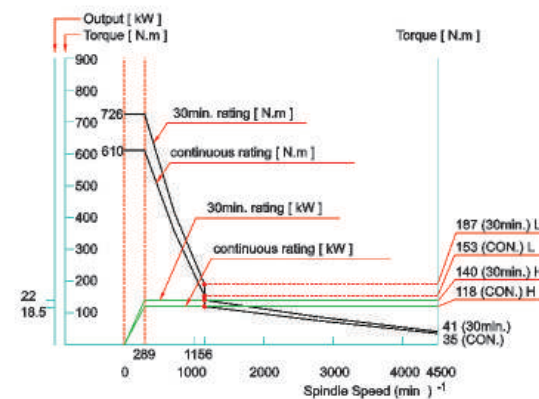
All spindles used by Jingguan Intelligent are imported from Taiwan and FAG/NSK bearing is assembled. It can be perfectly combined with super-large torque output by gear transmission with excellent precision and rigidity. The oil cooling system is equipped to ensure spindle life and machining precision.



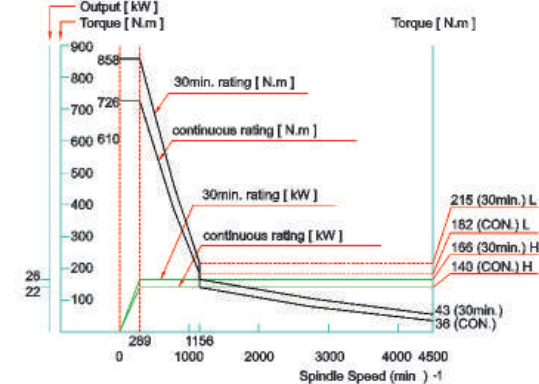
Spanner Code	A	B	C	D
E.M. (mm)	134.6	126	145.75	145.75
Ejection path (mm)	1	1	1	1
Max pull force (N)	25,000	25,000	25,000	25,000
Max Stroke (mm)	6	6	6	6
medium transfer	axial transfer			

Tool Standard	Code
DIN 69871/69872 ISO 7388/1/1 Type A	A
ANSI B 5.50-78 ISO 7388/1/2 Type B	B
MAS 403-1982 BT/PT 2 (30°)	C
MAS 403-1982 BT/PT 1 (45°)	D

18.5/22kw 4500rpm (STANDARD)



22/26kw (OPTION)



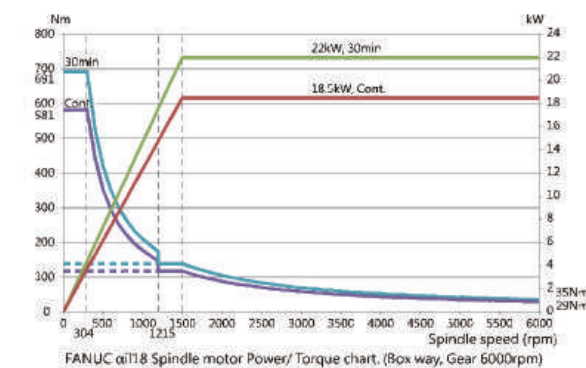
硬轨 HARD RAIL

FANUC 控制器

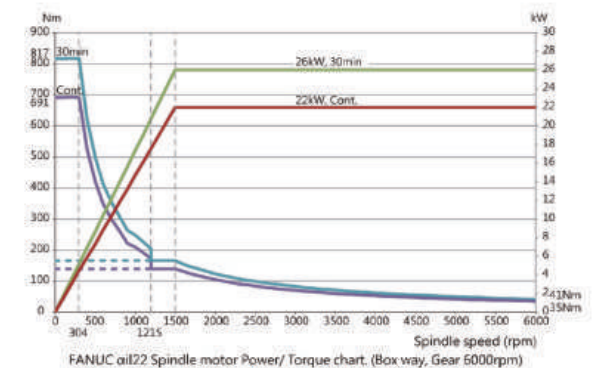
STANDARD CONFIGURATION ※ 标准配置

序号 No.	马达形式 Motor Type	主轴转速 (rpm) Spindle Speed	主轴形式 Spindle Type	最大功率(KW) Max. Power	最大扭力(N.m) Max. Torque	刀具形式 Tool Type
※ 1	FANUC αil 18	6,000	齿轮式 (Geared)	18.5/ 22(Cont./ 30min.)	581/ 691(Cont./ 30min.)	ISO 50
2	FANUC αil 22	6,000	齿轮式 (Geared)	22/ 26(Cont./ 30min.)	691/ 817(Cont./ 30min.)	ISO 50
3	FANUC αil 18	4,000	齿轮式 (Geared)	18.5/ 22(Cont./ 30min.)	748.7/ 890(Cont./ 30min.)	ISO 50
4	FANUC αil 22	4,000	齿轮式 (Geared)	22/ 26(Cont./ 30min.)	890/ 1052(Cont./30min.)	ISO 50

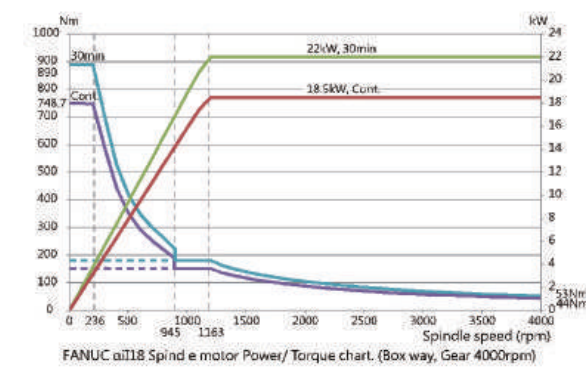
1. 齿轮式ISO 50 αil18 / 主轴 6,000RPM (标准配置) Geared ISO50 αil18 / Spindle 6,000RPM (Standard)



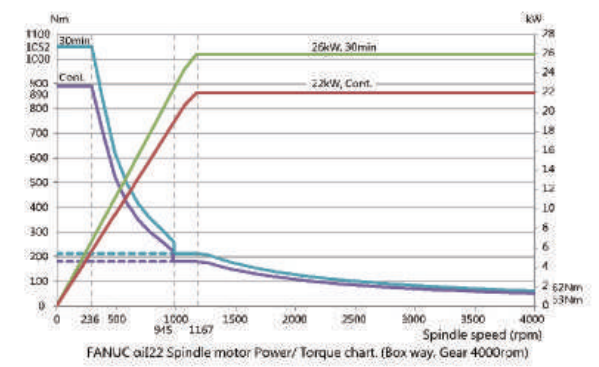
2. 齿轮式ISO 50 αil22 / 主轴 6,000RPM Geared ISO50 αil22 / Spindle 6,000RPM



3. 齿轮式ISO 50 αil18 / 主轴 4,000RPM Geared ISO50 αil18 / Spindle 4,000RPM

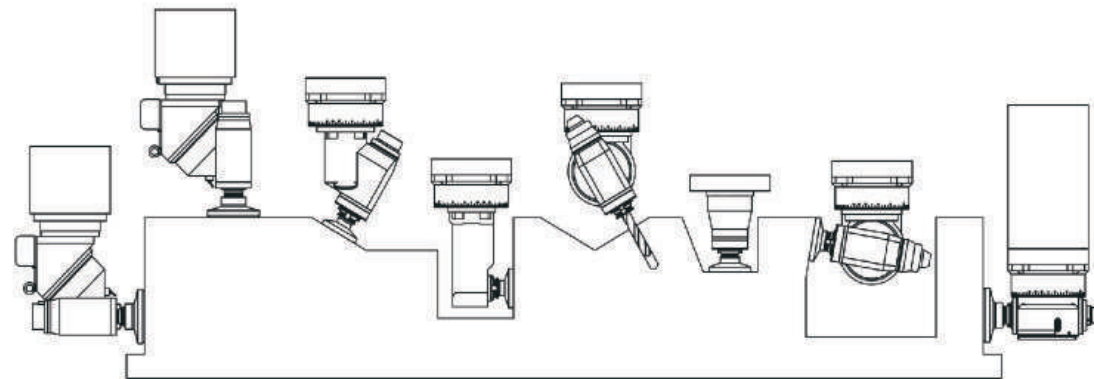


4. 齿轮式ISO 50 αil22 / 主轴 4,000RPM Geared ISO50 αil22 / Spindle 4,000RPM



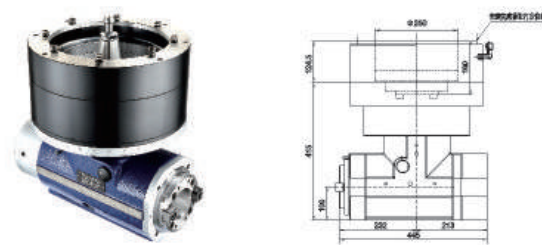
主轴头附件

SPINDLE HEAD ACCESSORIES



半自动侧铣头 Semi-automatic Side Milling Head

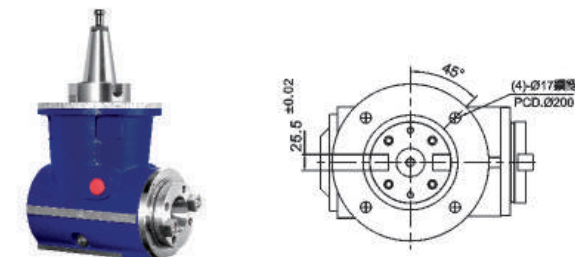
参数 Parameters



半自动侧铣头 Semi-automatic side milling head
最大转速Max. speed: 3000r.p.m
盘径Disk diameter: $\Phi 320 \times \Phi 320$ mm
最大刀盘直径Max. tool disk diameter: $\Phi 250$ mm
锥孔/齿数比Taper hole/tooth count ratio: BT-50/1:1
最大扭矩Max. torque: 1000N.m
5度一分割, 自动回转 5-degree split and auto rotation
刀具碟簧锁刀、液压松刀 Disc spring locking and hydraulic tool release
手动安装头座、自动转头
Manual mounting of headstock and automatic head turning

手动侧铣头 Manual Side Milling Head

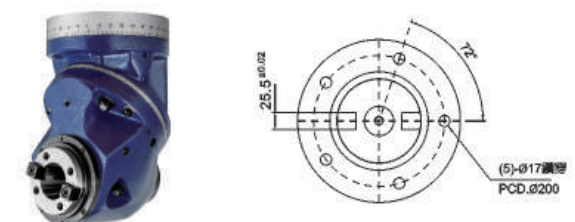
参数 Parameters



手动侧铣头 Manual Side Milling Head
最大转速Max. speed: 2500r.p.m
盘径Disk diameter: $\Phi 250 / \Phi 300$ mm
最大刀盘直径Max. tool disk diameter: $\Phi 200$
锥孔/齿数比Taper hole/tooth count ratio: BT-50/1:1
最大功率Max. power: 38KW

45°万向铣头 45° Universal Milling Head

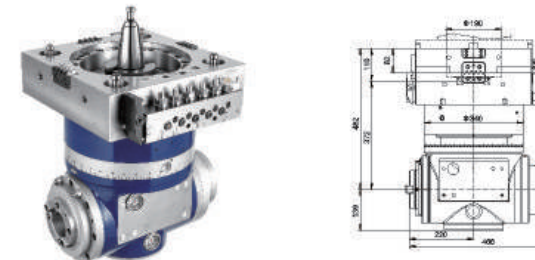
参数 Parameters



45° 万向铣头 45° Universal Milling Head
最大转速Max. speed: 2000r.p.m
盘径Disk diameter: $\Phi 250$ mm
最大刀盘直径Max. tool disk diameter: $\Phi 200$
锥孔/齿数比Taper hole/tooth count ratio: BT-50/1:1
最大功率Max. power: 38KW

全自动侧铣头 Full-automatic Side Milling Head

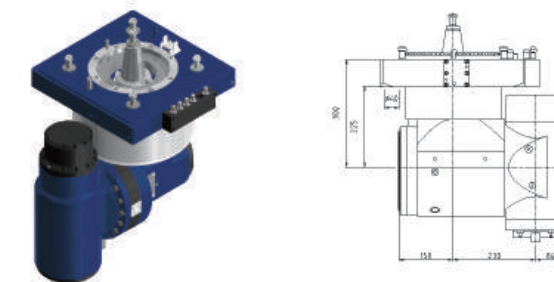
参数 Parameters



全自动侧铣头 Full-automatic Side Milling Head
最大转速Max. speed: 2000r.p.m
盘径Disk diameter: $\Phi 400 \times \Phi 400$ mm
最大刀盘直径Max. tool disk diameter: $\Phi 200$
锥孔/齿数比Taper hole/tooth count ratio: BT-50/1:1
最大扭矩Max. torque: 1500N.m

全自动万向铣头 Full-automatic Universal Milling Head

参数 Parameters



全自动万向铣头 Full-automatic Universal Milling Head
最大转速Max. speed: 3000r.p.m
盘径Disk diameter: $\Phi 400 \times \Phi 400$ mm
最大刀盘直径Max. tool disk diameter: $\Phi 200$
锥孔/齿数比Taper hole/tooth count ratio: BT-50/1:1
最大功率Max. power: 30KW
最大扭矩Max. torque: 1000N.m

正齿轮式主轴 Spur Gear Spindle

参数 Parameters



主轴转速Spindle speed: 6000/2500r.p.m
轴承规格Bearing specifications: $\Phi 90/7018 \times 5$ 个
静态拉刀Static clamping: 1800kbf
承载扭矩Load torque: 110N.N.m
承箱润滑: ISO 32齿轮油 Gearbox lubrication: ISO 32 gear oil
主轴段数: 二段式高低档
Number of spindle segments: Two-segment high and low gears
高低档位High and low gears: 1:1.1/1:4.4
换挡开关Shift switch: RCA+HV-PM10
换挡气压Shift air pressure: 3.5 ± 0.5 Bar
定位开关Positioning switch: PNP_NO

PARAMETERS OF HIGH-PERFORMANCE GANTRY MACHIN

高性能龙门加工中心机参数

机床型号 Model		单位	DMC-1615	DMC-2017	DMC-2519	DMC-3019	DMC-3220	DMC-4220	DMC-4027	DMC-6032
行 程 Stroke		Unit								
X轴行程	X-axis stroke	mm	1600	2000	2500	3000	3200	4200	4000	6000
Y轴行程	Y-axis stroke	mm	1500	1700	1900	1900	2000	2000	2700	3200
Z轴行程	Z-axis stroke	mm	800	800	800	800	1000	1000	1000	1250
龙门两柱宽度	Two column width	mm	1500	1700	1900	1900	2000	2000	2700	3200

工作台 Worktable										
工作台尺寸	Size	mm	1200×1700	1400×2100	1600×2700	1600×3200	1800×3000	1800×4000	2300×4000	3000×6000
工作台T型槽/数量	T-slot/number	mm	7-22×170	7-22×200	9-22×180	9-22×180	9-22×190	9-22×190	11-28×200	15-28×200
工作台最大承重	Max. load capacity	kg	2500	4000	5500	6500	6500	8000	12000	18000
主轴到工作台距离(标准)	Distance from spindle to worktable (Standard)	mm	150~950	200~1000	200~1000	200~1000	205~1205	205~1205	280~1280	250~1500

主 轴 Spindle						
主轴规格(型号/安装直径) Specifications(Model/Mounting diameter)		mm	BT50/Φ190(短鼻Short nose)		BT50/Φ155	BT50/Φ200
传动方式 Transmission mode	皮带 Belt	rpm	转速(Speed)6000r/min		转速(Speed)8000r/min	转速(Speed)6000r/min
			传动比(Transmission ratio) 1.5:1 (1:1选配Optional)		传动比(Transmission ratio) 1.5:1 (1:1选配Optional)	
	ZF减速+皮带(选配) ZF reducer + belt(Optional)	/	转速(Speed)6000r/min, 传动(Transmission ratio) 比4:1		转速(Speed)6000r/min, 传动(Transmission ratio) 比4:1	

进给率 Feed Rate									
X/Y/Z轴进给速度	X/Y/Z-axis feed rate	m/min	15	15	15	15	12	10	8
X/Y/Z轴切削进给速度	X/Y/Z-axis cutting feed rate	m/min	10	10	10	10	8	6	6
X/Y/Z轴滚珠丝杠直径	X/Y/Z-axis ball screw diameter	mm	5010	5010	X6312,Y/Z5010	X8020,Y/Z5010		X8020,Y6316/Z5010	X10020,Y8020/Z6316

三轴导轨 Three-axis Guide Rail									
X轴导轨	X-axis guide rail	mm	滚柱导轨(Roller guide)55/6;		滚柱导轨55/8;	滚柱导轨55/10	滚柱导轨(Roller guide)45/10	滚柱导轨2/55/14	滚柱导轨3/55/24
Y轴导轨	Y-axis guide rail	mm	滚柱导轨(Roller guide)55/4;		滚柱导轨(Roller guide)55/4		滚柱导轨(Roller guide)45/4	滚柱导轨2/55/4	滚柱导轨2/55/8
Z轴导轨	Z-axis guide rail	mm	矩形滑轨 Rectangular slide rail		矩型滑轨 Rectangular slide rail		矩型滑轨 Rectangular slide rail	矩型滑轨 Rectangular slide rail	

精 度 Accuracy									
三轴定位精度	Three-axis positioning accuracy	mm	±0.008/300	±0.008/300	±0.008/300	±0.008/300	±0.008/300	±0.008/300	±0.008/300
重复定位精度	Repeated positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300

刀库(选配) Tool Magazine (Optional)									
刀库容量	Capacity	T	24	24	24	24	24	24	24
刀具重量/长度	Tool weight/length	kg/mm	15/300	15/300	15/300	15/300	15/300	15/300	15/300
最大直径(满刀/邻空刀)	Max diameter(Fully loaded/No adjacent tool)	mm	Φ110/Φ200	Φ110/Φ200	Φ110/Φ200	Φ110/Φ200	Φ110/Φ200	Φ110/Φ200	Φ110/Φ200

机床尺寸及重量 Machine Dimensions and Weight									
机床重量(标准)	Weight (Standard)	T	约(Approx)15.5	约(Approx)17.5	约(Approx)20.5	约(Approx)22	约(Approx)24	约(Approx)29	约(Approx)43
机床外形尺寸(标准)	Dimensions (Standard)	cm	500*330*332	560*330*332	880*330*332	1020*330*332	1020*350*332	1220*350*332	1220*510*380

※注：由于本公司技术不断的研发改良，样本中部分机型参数，技术规格如有变更，具体规格以业务商谈时为准，样本中的图片参数仅供参考。
※Note: Some of the machine parameters and technical specifications are subject to change due to continuous technology improvement. Specific specifications are subject to negotiations and the sample parameters are for reference only.

标准配置

FANUC Oi-MF 控制器 移动式手摇轮 (MPG) 工作灯及警示灯 RS-232 / RJ45 / USB 界面 自动断电功能	皮带主轴6000rpm 电源变压器 (380V-220V) 水平悬吊式操作箱 水枪及气枪 技术资料一套	立柱旁防护 (6米及以上机型) 无顶盖四周防护 (4米及以下机型) 双螺杆卷屑机及链板式铁屑输送机 基础螺栓及水平调整工具一套 脚踏式松开开关	中央集中自动润滑系统 冷却系统 (含泵及水箱) 润滑油独立回收系统 主轴温控系统 (油冷机) 双油压缸配重系统
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ING CENTER

DMC-2217P	DMC-2718P	DMC-3222P	DMC-4029P	DMC-6032P	DMC-8032P	DMC-6042P	DMC-8042P	DMC-8552P
2200	2700	3200	4000	6000	8000	6000	8000	8500
1700	1800	2200	2900	3200	3200	4200	4200	5200
1000	1000	1000	1000(选1250)	1250	1250(选1500)	1250(选1500)	1250(选1500)	1500
1700	1800	2200	2900	3200	3200	4200	4200	5200

1500×2200	1600×2500	1900×3000	2400×4000	2700×6000	2700×8000	3500×6000	3500×8000	3700×8000
7-22×180	9-22×180	11-22×180	11-28×220	13-28×210	13-28×210	15-28×225	15-28×225	17-28×210
5000	6000	8000	12000	20000	30000	25000	35000	40000
150~1150	150~1150	150~1150	250~1250(1500)	250~1500	250~1500	250~1500	250~1500	250~1750

主轴规格(型号/安装直径) Specifications(Model/Mounting diameter)		Mm	BT50/Φ190	
传动方式 Transmission mode	主轴全齿式两档变速 All-gearred and two-speed transmission	rpm	转速(Speed)6000r/min	
			(高档High gear 1:1 / 低档Low gear 1:4.3)	

15	15	12	10	8	8	8	8	8
10	10	8	6	6	6	6	6	6
X/Y/Z 5010	X 6312,Y/Z 5010	X6316,Y6312,Z5010	X8020,Y6312,Z5010 (选1250时Z 6316)	X10020/Y8020/Z6316				/

滚柱导轨2/45/8	滚柱导轨(Roller guide)2/55/10	滚柱导轨2/65/10	滚柱导轨3/55/27	滚柱导轨3/55/30	滚柱导轨4/55/28	滚柱导轨4/55/32	滚柱导轨4/65/36
滚柱导轨(Roller guide)2/55/5		滚柱导轨(Roller guide)3/55/7		滚柱导轨(Roller guide)3/55/7		滚柱导轨(Roller guide)3/55/7	
硬轨滑枕 Hard rail ram		硬轨滑枕/方滑枕	方滑枕square ram	方滑枕(square ram)		方滑枕(square ram)	

±0.008/300	±0.008/300	±0.008/300	±0.008/300	±0.008/300	±0.008/300	±0.008/300	±0.008/300	±0.008/300
±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300

24	24	24	24	24	24	24	24	24
15/300	15/300	15/300	15/300	15/300	15/300	15/300	15/300	15/300
Φ110/Φ200	Φ110/Φ200	Φ110/Φ200	Φ110/Φ200	Φ110/Φ200	Φ110/Φ200	Φ110/Φ200	Φ110/Φ200	Φ110/Φ200

约(Approx)20	约(Approx)25	约(Approx)30	约(Approx)52	约(Approx)68	约(Approx)75	约(Approx)75	约(Approx)85	约(Approx)95
750*545*510	973*555*510	1060*635*515	1170*700*520(545)	1570*890*632	2115*890*632	1675*1000*632	2075*1000*632	2175*1055*650

are for reference only.

STANDARD CONFIGURATION

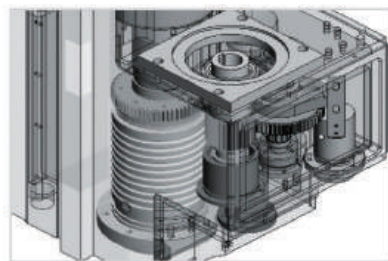
FANUC Oi-MF controller Mobile hand wheel (MPG) Work light and warning light RS-232 / RJ45 / USB interface Auto power-off function	Belt spindle 6,000rpm Power transformer (380V-220V) Horizontal suspended operator box Water gun and air gun Technical document (1 set)	Column side protection (6m machine or above) Topless perimeter protection (4m machine or below) Twin-screw chip roller and chain plate iron chip conveyor Foundation bolts and horizontal adjustment tool (1 set) Foot-operated tool release switch	Centralized automatic lubrication system Cooling system (including pump and water tank) Independent lubricant recovery system Spindle temperature control system (Oil cooler) Double hydraulic cylinder counterweight system
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MOVABLE COLUMN GANTRY MACHINING CENTER

SDMC-16055

动柱式龙门加工中心

- ▶ 秉持精冠智能一贯地高刚性、重切削结构设计，全系列机型更兼具五面加工中心机的高精度指标，以坚实的结构与优越的几何精度，打造全方位高效能切削。
- ▶ 全自动五面加工能力，全自动附加头交换
- ▶ X、Y轴采用高刚性、高精密线性滑轨，X轴为对称的全支撑四轨设计
- ▶ Z轴采用高刚性硬轨设计，经热处理后再精密研磨，适合重切削
- ▶ 所有结构件皆经过FEM有限元素分析。具有结构轻量化、设计合理化等优势，确保整机最佳化的结构刚性。
- ▶ With the high rigidity and heavy cutting structure design, the whole series of machines have high precision of five-sided machining centers and all-round high-efficiency cutting is achieved with robust structure and superior geometrical precision.
- ▶ Full-automatic five-sided machining capability and full-automatic additional head change.
- ▶ The X and Y-axis use high rigidity and high precision linear slide rails. X-axis is supported by four symmetrical rails.
- ▶ The Z-axis is designed with high rigidity hard rail, heat-treated and then precision ground, suitable for heavy cutting.
- ▶ All structural parts are analyzed by using finite element method (FEM). They are featured by lightweight and reasonable design to ensure the optimal structural rigidity of the whole machine.



主轴齿箱 SPINDLE GEARBOX

主轴头部采用四方型高刚性设计，方结构体，500×500mm，强度足且不易干涉加工物，滑轨设计阶梯型包覆设计，主轴中心更接近横梁切削稳定。齿轮箱体与主轴采一体加工完成，切削扭力之传导距离短输出力强，切削时抗力稳定，长时间运转顺畅噪音低。

The spindle head adopts quadrilateral high rigidity design with square structure and 500×500mm. It has enough strength and not easy to interfere with the machined workpiece. The slide rail has the ladder-type cladding design and the spindle center is closer to the cross rail with stable cutting capability. The gear box and spindle are machined as one piece, which has a short transmission distance for cutting torque, strong output force, stable cutting resistance and low noise for long time operation.



三轴轨道设计: 线轨/线轨/硬轨

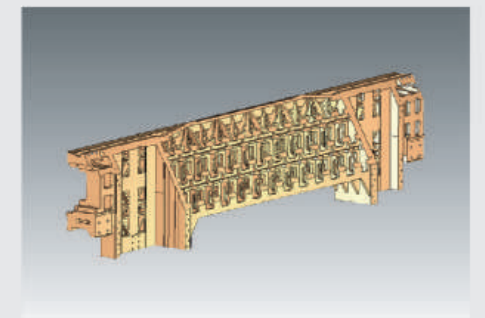
- ▶ X/Y轴采用双重载滚柱线轨设计，轨道宽度55mm。
- ▶ Z轴硬轨设计，有良好的吸震性及耐磨性能。

THREE-AXIS RAIL DESIGN: LINEAR RAIL LINEAR RAIL/HARD RAIL

- ▶ The X and Y-axis use double-loaded roller-type linear rails with track width of 55mm.
- ▶ The Z-axis uses hard rails with good vibration absorption and wear resistance.



工作台承重: 5ton/cm²
工作台尺寸: 16000×5000mm
三轴行程: 16000×6500×1500mm
主轴转速: 6000rpm, 刀库容量: 24pcs



横梁柱结构特性

横梁为一体铸造成型，结构设计采用高刚性前段交叉肋骨后段箱型结构体，平均分配横梁背部，外型为桥梁式拱型设计能有效支撑垂直重力与横向抗力并再切削时发挥稳定刚性。

STRUCTURAL CHARACTERISTICS OF CROSS RAIL COLUMN

The cross rail is cast as one piece with high rigidity cross ribs at the front and box structure at the rear. They are evenly distributed at the rear cross rail. The bridge type arch design can effectively support the vertical gravity and lateral resistance for stable cutting.



动柱式龙门加工中心机参数 PARAMETERS OF MOVABLE COLUMN

机床型号 Model		单位	SDMC-10045	SDMC-12045	SDMC-16045	SDMC-20045	SDMC-10055
行程 Stroke		Unit					
X轴行程	X-axis stroke	mm	10000	12000	16000	20000	10000
Y轴行程	Y-axis stroke	mm	4500	4500	4500	4500	5500
Z轴行程	Z-axis stroke	mm	1500	1500	1500	1500	1500
龙门两柱宽度	Two column width	mm	4500	4500	4500	4500	5500
工作台 Worktable							
工作台尺寸	Size	mm	10000×3000	12000×3000	16000×3000	20000×3000	10000×4000
工作台T型槽/数量	T-slot/number	mm	28×15	28×15	28×15	28×15	28×17
工作台最大承重	Max. load capacity	kg	5ton/cm²	5ton/cm²	5ton/cm²	5ton/cm²	5ton/cm²
主轴到工作台距离(标准)	Distance from spindle to worktable (Standard)	mm	300-1800	300-1800	300-1800	300-1800	300-1800
主 轴 Spindle							
主轴直径	Diameter	mm	Φ 190	Φ 190	Φ 190	Φ 190	Φ 190
主轴转速	Speed	rpm	6000(原装正齿轮头,齿轮比高档1:1.075,低档1:5.2)(Original spur gear head,gear ratio 1:1.075 for high gear and 1:5.2 for low gear)				
主轴锥孔	Taper hole	iso/bt	ISO.No50/BT50	ISO.No50/BT50	ISO.No50/BT50	ISO.No50/BT50	ISO.No50/BT50
主轴润滑方式	Lubrication method	/	油脂润滑(Grease)		油脂润滑(Grease)		
刀具拉丁	Tool spigot	/	Ms03A	Ms03A	Ms03A	Ms03A	Ms03A
主轴打刀力	Unclamping force	T	6	6	6	6	6
进给率 Feed Rate							
X/Y/Z轴进给速度	X/Y/Z-axis feed rate	m/min	8/8/8	8/8/8	8/8/8	8/8/8	8/8/8
X/Y/Z轴切削进给速度	X/Y/Z-axis cutting feed rate	m/min	0.005-8	0.005-6	0.005-6	0.005-4	0.005-8
三轴导轨 Three-axis Guide Rail							
X轴导轨 X-axis guide rail	mm	四(65)滚柱导轨 Four (65) roller guide rails		四(65)滚柱导轨Four (65) roller guide rails		四(65)滚柱导轨	
Y轴导轨 Y-axis guide rail	mm	三(55)滚柱导轨Three (55) roller guide rails					
Z轴导轨 Z-axis guide rail	mm	硬轨方滑枕Square hard rail ram (500*500)					
精 度 Accuracy							
三轴定位精度 Three-axis positioning accuracy	mm	± 0.008/300		± 0.008/300		± 0.008/300	
重复定位精度 Repeated positioning accuracy	mm	± 0.005/300		± 0.005/300		± 0.005/300	
刀库(选配) Tool Magazine (Optional)							
刀库容量 Capacity	T	24		24		24	
刀具重量/长度 Tool weight/length	kg/mm	15/300		15/300		15/300	
最大直径 (满刀/邻空刀) Max. diameter(Fully loaded/no adjacent tool)	mm	Φ 110/Φ 200		Φ 110/Φ 200		Φ 110/Φ 200	
其他 Others							
X轴传动方式 X-axis drive mode	/	齿条传递 Rack-and-pinion transmission		齿条传递 Rack-and-pinion transmission			
Y/Z轴滚珠丝杠直径 Y/Z-axis ball screw diameter	mm	Φ 63/Φ 63		Φ 63/Φ 63		Φ 103/Φ 63	
机床重量 (标准) Weight(Standard)	kg	90000		110000		140000	
机床外形尺寸 (标准) Dimensions(Standard)	mm	13000×5500×5100		15000×5500×5100		19000×5500×5100	

※注：由于本公司技术不断的研发改良，样本中部分机型参数，技术规格如有变更，具体规格以业务商谈时为准，样本中的图片参数仅供参考。
※Note: Some of the machine parameters and technical specifications are subject to change due to continuous technology improvement. Specific specifications are subject to negotiations and the sample parameters

标准配置

FANUC 0i-MF 控制器 移动式手摇轮 (MPG) 工作灯及警示灯 RS-232 / RJ45 / USB 界面 自动断电功能	齿轮传动主轴6000rpm 电源变压器 (380V-220V) 水平悬吊式操作箱 水枪及气枪 技术资料一套	立柱旁防护 (6米及以上机型) 无顶盖四周防护 (4米及以下机型) 双螺杆卷屑机及链板式铁屑输送机 基础螺栓及水平调整工具一套 脚踏式松刀开关	中央集中自动润滑系统 冷却系统 (含泵及水箱) 润滑油独立回收系统 主轴温控系统 (油冷机) 双油压缸配重系统
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GANTRY MACHINING CENTER

SDMC-12055	SDMC-16055	SDMC-20055	SDMC-10065	SDMC-12065	SDMC-16065	SDMC-20065	SDMC-24065
12000	16000	20000	10000	12000	16000	20000	24000
5500	5500	5500	6500	6500	6500	6500	6500
1500	1500	1500	1500	1500	1500	1500	1500
5500	5500	5500	6500	6500	6500	6500	6500
12000×4000	16000×4000	20000×4000	10000×5000	12000×5000	16000×5000	20000×5000	24000×5000
28×17	28×17	28×17	28×19	28×19	28×19	28×19	28×19
5ton/cm ²	5ton/cm ²	5ton/cm ²	5ton/cm ²	5ton/cm ²	5ton/cm ²	5ton/cm ²	5ton/cm ²
300-1800	300-1800	300-1800	300-1800	300-1800	300-1800	300-1800	300-1800
Φ 190	Φ 190	Φ 190	Φ 190	Φ 190	Φ 190	Φ 190	Φ 190
6000(原装正齿轮头, 齿轮比高档1:1.075, 低档1:5.2) (Original spur gear head,gear ratio 1:1.075 for high gear and 1:5.2 for low gear)							
ISO.No50/BT50	ISO.No50/BT50	ISO.No50/BT50	ISO.No50/BT50	ISO.No50/BT50	ISO.No50/BT50	ISO.No50/BT50	ISO.No50/BT50
油脂润滑(Grease)			油脂润滑(Grease)				
Ms03A	Ms03A	Ms03A	Ms03A	Ms03A	Ms03A	Ms03A	Ms03A
6	6	6	6	6	6	6	6
8/8/8	8/8/8	6/8/8	8/8/8	8/8/8	8/8/8	6/8/8	6/8/8
0.005-6	0.005-6	0.005-4	0.005-8	0.005-6	0.005-6	0.005-4	0.005-4
Four (65) roller guide rails	四(65)滚柱导轨 Four (65) roller guide rails		四(65)滚柱导轨 Four (65) roller guide rails		四(65)滚柱导轨 Four (65) roller guide rails		
三(55)滚柱导轨Three (55) roller guide rails			三(55)滚柱导轨Three (55) roller guide rails				
硬轨方滑枕Square hard rail ram (500*500)			硬轨方滑枕Square hard rail ram (500*500)				
± 0.008/300	± 0.008/300	± 0.008/300	± 0.008/300	± 0.008/300	± 0.008/300	± 0.008/300	± 0.008/300
± 0.005/300	± 0.005/300	± 0.005/300	± 0.005/300	± 0.005/300	± 0.005/300	± 0.005/300	± 0.005/300
24	24	24	24	24	24	24	24
15/300	15/300	15/300	15/300	15/300	15/300	15/300	15/300
Φ 110/Φ 200	Φ 110/Φ 200	Φ 110/Φ 200	Φ 110/Φ 200	Φ 110/Φ 200	Φ 110/Φ 200	Φ 110/Φ 200	Φ 110/Φ 200
齿条传递 Rack-and-pinion transmission			齿条传递 Rack-and-pinion transmission				
Φ 103/Φ 63	Φ 103/Φ 63	Φ 103/Φ 63	Φ 103/Φ 63	Φ 103/Φ 63	Φ 103/Φ 63	Φ 103/Φ 63	Φ 103/Φ 63
115000	145000	175000	100000	120000	150000	180000	210000
15000×6500×5100	19000×6500×5100	23000×6500×5100	13000×7500×5100	15000×7500×5100	19000×7500×5100	23200×7500×5100	27000×7500×5100

are for reference only.

STANDARD CONFIGURATION

FANUC 0i-MF controller Mobile hand wheel (MPG) Work light and warning light RS-232 / RJ45 / USB interface Auto power-off function	Gear transmission spindle 6,000rpm Power transformer (380V-220V) Horizontal suspended operator box Water gun and air gun Technical document (1 set)	Column side protection (6m machine or above) Topless perimeter protection (4m machine or below) Twin-screw chip roller and chain plate iron chip conveyor Foundation bolts and horizontal adjustment tool (1 set) Foot-operated tool release switch	Centralized automatic lubrication system Cooling system (including pump and water tank) Independent lubricant recovery system Spindle temperature control system (Oil cooler) Double hydraulic cylinder counterweight system
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HIGH RIGIDITY HORIZONTAL MACHINING CENTER

HMC-630

高刚性卧式加工中心



- ▶ 卧式加工中心具有高速度、高精度、高可靠性结构，拥有同类设备中的高刚性，大功率、大扭矩、重切削特点，可充分发挥高生产和高精度的加工性能。
- ▶ 强大的切削能力与卓越的精确度和性能相结合，令铣削与镗孔操作简单易行。
- ▶ 机床三轴进给系统的安装支撑部件(电机座及轴承座)完全靠机加保证，大幅度提高装配效率及装配质量，精度保持性大幅提高。
- ▶ The horizontal machining center has a high speed, high precision and highly reliable structure with high rigidity, high power, high torque and heavy cutting characteristics of similar machines. High-productivity and high-precision machining performance can be fully achieved.
- ▶ Powerful cutting capabilities combined with superior accuracy and performance make milling and boring operations simple and easy.
- ▶ The support parts (motor base and bearing seat) of the three-axis feed system are completely machined, which greatly improves the assembly efficiency and quality, and the accuracy retention is greatly improved.



大功率主轴

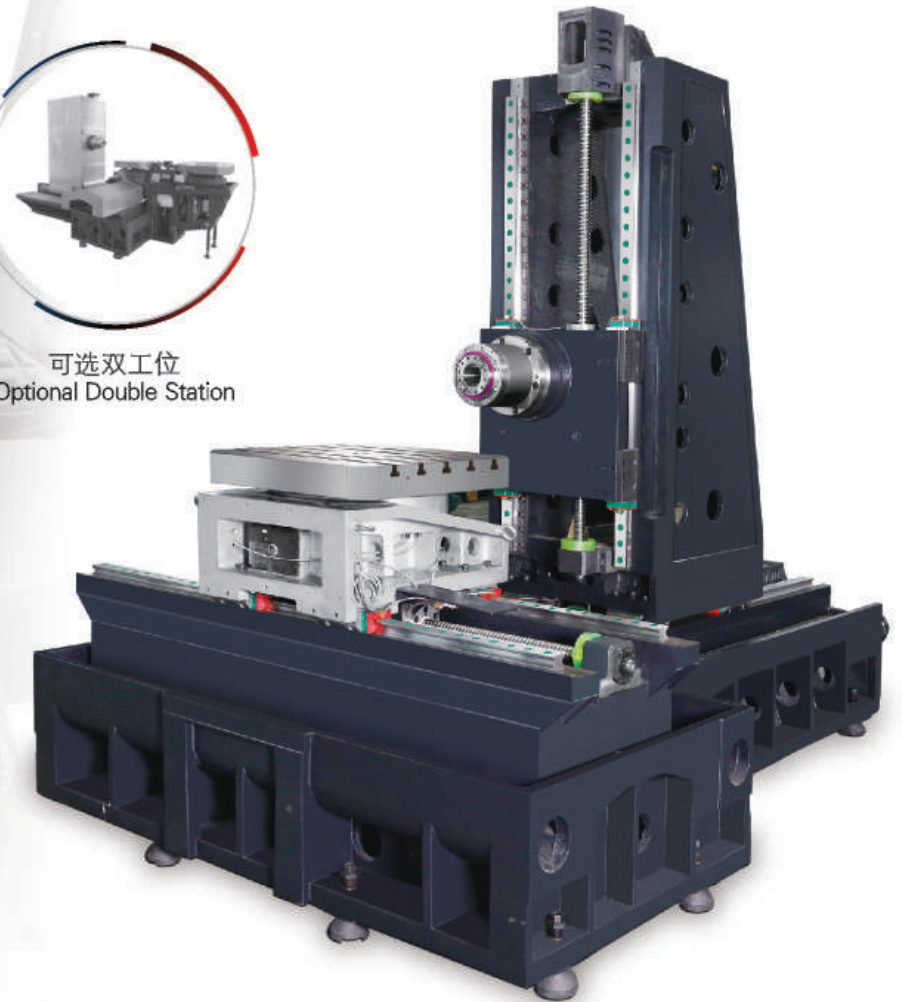
采用台湾高精度主轴，标准
转速6000rpm
HIGH POWER SPINDLE
Taiwan high precision spindle is
used with standard speed
6,000rpm



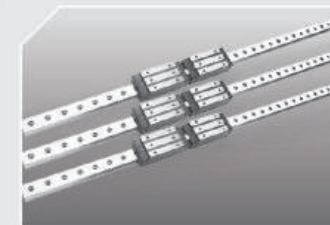
工作台承重: 1200kg
工作台尺寸: 630 × 630mm
三轴位移: 24m/min
主轴转速: 6000rpm, 刀库容量: 24pcs



可选双工位
Optional Double Station



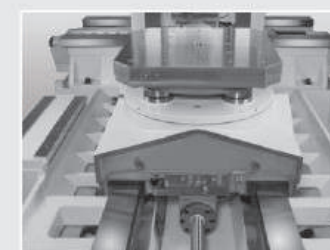
机床亮点 MACHINE TOOL FEATURES



C3级大推力丝杆 C3 LARGE THRUST SCREW

X/Z轴采用Φ63研磨C3级高精度大推力丝杆，搭配成组进口角接触轴承，双侧支撑并进行预拉伸，确保传动精度。

The X and Z-axis use Φ63 ground C3 high precision large thrust screw with groups of imported angular contact bearings, double-side support and pre-stretching to ensure transmission accuracy.



过硬的工作台 ROBUST WORKTABLE

采用成熟稳重的T型床身结构，加宽下滑鞍提高刚性，快速移动稳定性好。底座铸件用高精度五面龙门加工，只需一次装夹即可完成五面的铣削、钻孔、攻丝，减少了装夹误差，提高了加工精度。

It adopts steady T-bed structure with widened lower slide saddle to improve the rigidity and good stability for rapid movement. The base casting is machined by high precision five-sided gantry, which can complete milling, drilling and tapping of five sides with only one clamping. It reduces the clamping error and improves the machining accuracy.

VERTICAL MACHINING CENTER PAR

卧式加工中心机参数

机床型号 Model	单位	HMC500-BT40	HMC500-BT50	HMC630	HMC800		HMC800P	HMC1000P	HMC1250P
工作台	Worktable	Unit							
工作台规格 (宽 × 长)	Specifications (WX L)	mm	500 × 500	500 × 500	630 × 630	800 × 800	800 × 800	1000 × 1000	11250 × 1250
工作台形式 (T型槽)	Type (T-slot)	/	5-18-100	5-18-100	5-18-100	5-22-160	5-22-160	5-22-180	5-22-180
工作台最大载重	Max. load capacity	kg	800	800	1200	2000	2000	3000	5000
工作台分度数	Index numbers	deg	1°×360(opt0.001°)	1° × 360	1° × 360	1° × 0.001°	1° × 360	1° × 360	1° × 360
行程/主轴	Stroke/Spindle								
X、Y、Z轴行程	X, Y and Z-axis stroke	mm	800 × 600 × 785	800 × 600 × 785	1050 × 800 × 900	1250 × 900 × 1050	1400 × 1000 × 1100	1600 × 1300 × 1300	2200 × 1300 × 1300
主轴中心到工作台上平面距离	Distance from spindle center to upper worktable plane	mm	50 ~ 650	50 ~ 650	80 ~ 880	40 ~ 940	80 ~ 1080	50 ~ 1350	50 ~ 1350
主轴前端面至工作台中心距离	Distance from spindle front end to worktable center	mm	120 ~ 905	85 ~ 870	120 ~ 1020	200 ~ 1250	200 ~ 1200	200 ~ 1500	200 ~ 1500
主轴锥度/刀柄形式	Spindle taper/handle type	/	7: 24/ Bt40	7: 24/ BT50	7: 24/ BT50	BT50	7: 24/ Bt50	7: 24/ BT50	7: 24/ BT50
主轴转速范围	Speed range	r/min	60 ~ 8000 (opt4000)			4000皮带2:1(选取BF4:1)	60 ~ 6000 (opt3000)	60 ~ 6000 (opt3000)	50 ~ 4000
刀 库	Tool Magazine								
刀库形式/容量	Type/capacity	/	盘式(Disk type)BT40-24T	盘式(Disk type)BT50-24T			盘式(Disk type)BT50-24T		
换刀时间 (刀对刀)	Tool changing time (Tool-tool)	s	2.91	6	6	6	6	6	6
刀具最大重量	Max. tool weight	kg	8	18	18	18	18	18	18
刀具最大直径(满刀)/长度	Max. tool diameter (Fully loaded) / length	mm	Φ80/350	Φ112/350	Φ112/350	Φ112/350	Φ112/350	Φ112/350	Φ125/250
精 度	Accuracy								
定位精度(全行程)	Positioning accuracy (Full stroke)	mm	0.010	0.010	0.010	0.015	0.012	0.012	0.025
重复 (全行程)	Repetition accuracy (Full stroke)	mm	0.006	0.006	0.006	0.001	0.008	0.01	0.08
转台/重复定位精度	Turntable/repeated positioning accuracy	秒	± 3" / ± 1"	± 3" / ± 1"	± 3" / ± 1"	± 2"	± 3" / ± 1"	± 3" / ± 1"	± 4" / ± 1"
其 它	Others								
轨道形式	Rail type	/	三轴滚柱线轨 Three-axis roller linear rail			三轴滚柱线轨 Three-axis roller linear rail			
数控系统	CNC system	/	FANUC 0i-MF(10.4"彩色LCD, 图形显示10.4" color LCD, graphic display)			FANUC 0i-MF(10.4"彩色LCD, 图形显示10.4" color LCD, graphic display)			
进给率	Feed Rate								
切削进给速度	Cutting feed speed	m/min	0.005~10	0.005~10	0.005~10	0.005~10	0.005~10	0.005~10	10
X/Y/Z轴快速移动速度	X/Y/Z-axis rapid movement speed	m/min	24/24/24	24/24/24	24/24/24	24/24/18	24/20/20	20/20/20	18/18/12
一般规格	General Specifications								
外形尺寸 (L × W × H)	Dimensions(L × W × H)	mm	4480 × 3200 × 2740	4480 × 3200 × 2700	5550x4050x2900	3400x4000x3200	7300x5050x3050	8500x5500x3200	9750x6550x3550
机床重量	Machine weight	kg	8000	8500	12000	12000	16000	19000	28000

※注: 由于本公司技术不断的研发改良, 样本中部分机型参数, 技术规格如有变更, 具体规格以业务商谈时为准, 样本中的图片参数仅供参考。
※Note: Some of the machine parameters and technical specifications are subject to change due to continuous technology improvement. Specific specifications are subject to negotiations and the sample parameters

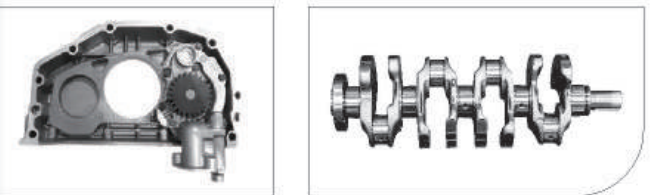
加工实例 Example of Machining



METERS

	HMC800P	HMC1000P	HMC1250P
	800×800	1000×1000	11250×1250
	5-22-160	5-22-180	5-22-180
	2000	3000	5000
	1°×360	1°×360	1°×360
	1400×1000×1100	1600×1300×1300	2200×1300×1300
	80~1080	50~1350	50~1350
	200~1200	200~1500	200~1500
	7: 24/ BT50	7: 24/ BT50	7: 24/ BT50
	60~6000 (opt3000)	60~6000 (opt3000)	50~4000
	6	6	6
	18	18	18
	Φ112/350	Φ112/350	Φ125/250
	0.012	0.012	0.025
	0.008	0.01	0.08
	±3" / ±1"	±3" / ±1"	±4" / ±1"
	三轴滚柱线轨 Three-axis roller linear rail		
	FANUC 0i-MF(10.4"彩色LCD, 图形显示10.4" color LCD, graphic display)		
	0.005~10	0.005~10	10
	24/20/20	20/20/20	18/18/12
	7300x5050x3050	8500x5500x3200	9750x6550x3550
	16000	19000	28000

are for reference only.



标准配置 Standard Configuration

- ☐ FANUC 控制系统
FANUC control system
- ☐ 电控箱热交换器
Electrical box heat exchanger
- ☐ RS-232接口
RS-232 interface
- ☐ 移动式手轮
Mobile handwheel
- ☐ 全密封罩自动润滑系统
Automatic lubrication system with fully enclosed cover
- ☐ 履带式排屑器及小车
Crawler-type chip remover and trolley
- ☐ 刚性攻牙功能
Rigid tapping device
- ☐ 24T圆盘式刀库
24T Disc tool magazine
- ☐ 主轴油冷机
Spindle oil cooler
- ☐ 切削液系统
Cutting fluid system
- ☐ 滑道伸缩钢制护盖
Retractable chute steel cover
- ☐ 切削液箱及过滤装置
Cutting fluid tank and filter
- ☐ 调整螺丝及垫块
Adjusting screw and washer
- ☐ 工作状态警示灯
Working status indicator
- ☐ 隔离式变压器
Isolated transformer
- ☐ 使用说明书
Operating manual
- ☐ 无影照明
Shadowless lighting device
- ☐ 工具箱
Toolbox

选购配件 Optional Parts

- ☐ 自动刀长测量仪
Automatic tool length measuring instrument
- ☐ 主轴减速机
Spindle reduction gearbox
- ☐ 工作台0.001° 含圆光学尺
Worktable 0.001° with round optical ruler
- ☐ BT40 / HSK63A
BT40 / HSK63A
- ☐ 摇篮式五轴
Cradle type 5-axis
- ☐ 32/40/60/90刀库
32/40/60/90 tool magazine
- ☐ 自动安全门
Automatic safety door
- ☐ 交换工作台
Changeable worktable
- ☐ 三轴光学尺
Three-axis optical ruler
- ☐ 油水分离装置
Oil-water separator
- ☐ 主轴中心出水
Spindle center outlet
- ☐ 侧铣头 (手动装置)
Side milling head (Manual device)
- ☐ 三菱/西门子/新代
Mitsubishi/ Siemens/ Syntec
- ☐ 高压冲屑装置
High pressure chip flushing device
- ☐ 内藏式电主轴
Built-in electric spindle

HIGH TORQUE CNC HORIZONTAL BORING AND MILLING CENTER

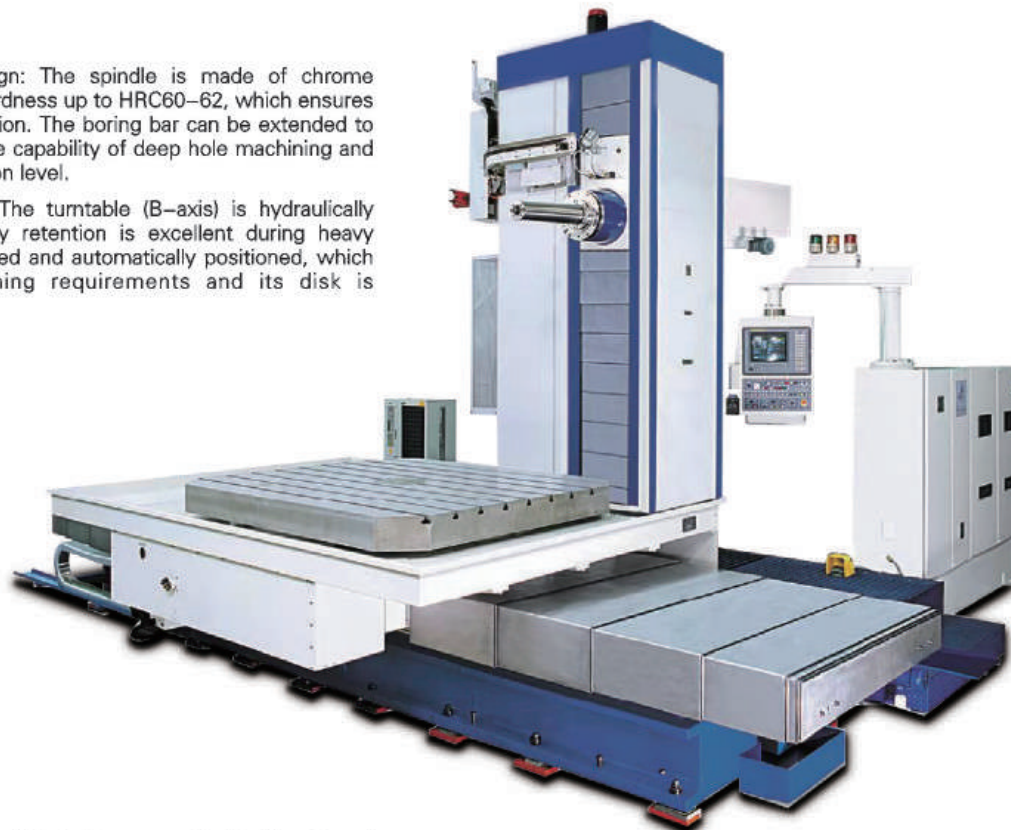
TB110/130/160

高扭力数控卧式镗铣

- ▶ 高扭力 主轴设计: 主轴采用铬钼金钢, 硬度高达HRC60-62, 确保最佳的刚性及精度, 镗杆可延伸到500/800/1000长具有深孔加工能力, 并使其加工真圆达到微米级。
- ▶ 高精度 回转工作台: 工作台(B轴)采用环装油压夹紧, 重切削时, 其精度之稳定绝佳回转采伺服控制, 自动回转定位, 适合各种加工需求其圆盘经专业铲花工艺达到优良的精度。

- ▶ High torque spindle design: The spindle is made of chrome molybdenum steel with hardness up to HRC60-62, which ensures the best rigidity and precision. The boring bar can be extended to 500/800/1000 long with the capability of deep hole machining and the true roundness is micron level.

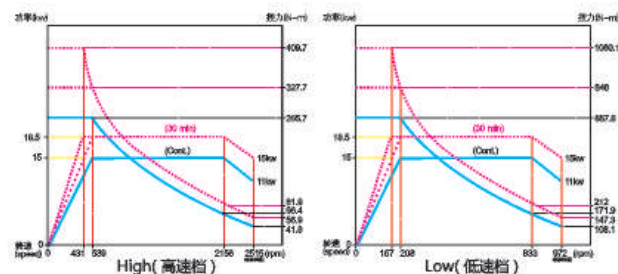
- ▶ High-precision turntable: The turntable (B-axis) is hydraulically clamped and the accuracy retention is excellent during heavy cutting. It is servo controlled and automatically positioned, which meets different machining requirements and its disk is professionally scraped.



大扭力 主轴设计 High Torque Spindle Design

主轴采用铬钼合金钢, 硬度高达HRC60-62, 确保最佳的刚性及精度, 镗杆可延伸到800mm长, 具有深孔加工能力, 并使其加工真圆达到U级。

The spindle is made of chrome-molybdenum steel with the hardness of HRC60-62 to ensure the best rigidity and precision. The boring bar can be extended to 800mm long, which has the capability of deep hole machining and the true roundness is U level.



PARAMETERS OF CNC HORIZONTAL BORING AND MILLING CENTER

数控卧式镗铣加工中心参数

机床型号 Model		单位	TB110	TB130	TB160
工作台 Worktable		Unit			
台面尺寸	Worktable	mm	1200 × 1400	1600 × 1800	2200 × 2500
台面承重	Top size	kg	5000	10000	15000
最大回转直径	Top load-bearing	mm	Φ3000	Φ4200	Φ5600
分割角度	Max. rotary diameter	度	0.001°	0.001°	0.001°
工作台表面至主轴中心	Split angle	mm	20~1620	80~880	80~1080
台面中心至主轴端面	Distance from table top to spindle center	mm	-50~1750	-100~2300	-200~2800
行程 Stroke					
X轴行程	X-axis stroke	mm	2500	3000	4500
Y轴行程	Y-axis stroke	mm	1600	2000	2500
Z轴行程	Z-axis stroke	mm	1400	1600	2000
W轴行程	W-axis stroke	mm	500	800	1000
主轴 Spindle					
镗杆直径	Boring bar diameter	mm	110	130	160
主轴转速范围	Speed range	rpm	20~2500	20~1500	20~1000
主轴电机	Motor	kw	18.5	27	37
轴孔	Bore	/	BT50	BT50	BT50
进给速度 Feed Rate					
快速移动X/Y/Z	X/Y/Z-axis rapid movement	m/min	10/10/10	8/8/8	6/6/6
切削进给速度	Cutting feed speed	m/min	6	5	4
刀库 Tool Magazine					
刀仓位数	Number of tool positions	T	24 (选配opt 30、40、60、100)		
最大刀具重量	Max. tool weight	kg	25	25	25
换刀时间	Tool changing time	g	8	8	8
刀具最大直径满刀/邻空刀	Max. tool diameter(Fully loaded/no adjacent tool)	/	120/ 250	120/ 250	120/ 250
最大刀具长度	Max. tool length	mm	400	400	400
拉钉型号	Spigot model	/	P50T-1	P50T-1	P50T-1
选刀方式	Tool selection	/	就近选刀 Adjacent selection		
精度 ISO230 Accuracy ISO230					
定位精度	Positioning accuracy	mm	±0.025	±0.03	±0.045
重复定位精度	Repeated positioning accuracy	mm	±0.012	±0.015	±0.015
B轴定位精度	B-axis positioning accuracy	秒	±15	±30	±30
B轴重复定位精度	B-axis repeated positioning accuracy	秒	±8	±15	±15
机床尺寸 Machine Dimensions					
占地面积(L × W × H)	Footprint	mm	5200 × 6800 × 4000	8200 × 8200 × 4900	11000 × 10000 × 5500
重量	Weight	T	28	43	65

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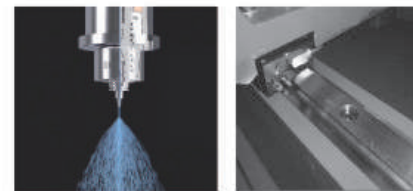
VERTICAL MACHINING CENTERS

VMC-850/855

立式加工中心系列

重载型滚柱直线导轨
Heavy Duty Roller Linear Guide Rail

- ▶ 三轴均采用高刚性滚柱式线性导轨，承载力佳，传动精度高，精度保持性好。能满足粗加工与精加工的要求。
- ▶ 高精度、高刚性之主轴头，它能承受径向与轴向负荷的重切削及长时间切削加工，并能维持加工高度精度。
- ▶ 三轴均采用高精度双螺帽预压之精密滚珠螺杆，配合两端支撑座的锁拉设计，能消除传动背隙并预先补偿温升造成之误差，确保定位精度。
- ▶ All three axes use high rigidity roller linear guide rails with good bearing capacity, high transmission precision and excellent precision retention. It can meet the requirements of rough machining and fine machining.
- ▶ High precision and high rigidity spindle head can bear radial and axial heavy cutting and long-time cutting. It can also maintain a high degree of machining accuracy.
- ▶ All three axes use high-precision precision ball screws with double nut preload, together with the locking and pulling design of the support base at both ends. It can eliminate the backlash in transmission and pre-compensate for the error caused by temperature rise to ensure the positioning accuracy.



ANNULAR SPRAY DEVICE 环喷装置

主轴可选配环喷装置，有助钻孔、攻牙时的刀具冷却，对出屑也有所帮助。

The spindle can be equipped with an optional annular spray device, which helps to cool the tool during drilling and tapping, and also helps in chip removal.

三轴标配滚柱线轨

高承载负荷，切削抗振能力强；高速摩擦力小、反应灵敏加速快且定位精度高。

Three-Axis Standard Roller Linear Rail

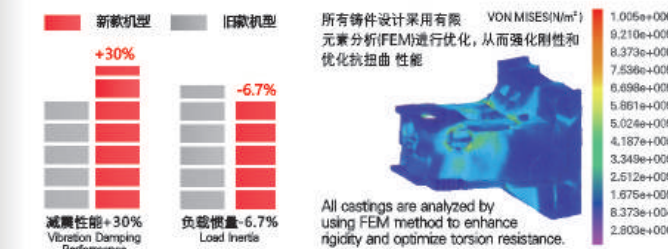
High load bearing capacity and strong cutting resistance to vibration; Low friction at high speed, responsive acceleration and high positioning accuracy.

主轴冷却系统

主轴头内置独立冷却系统，控制主轴头温度在合理范围，减小主轴热延伸。

Spindle Cooling System

The spindle head has a built-in independent cooling system to control the spindle head temperature in a reasonable range and reduce the thermal extension.



机床亮点 MACHINE TOOL FEATURES

强化铸造结构件

立柱铸件采用高级树脂砂铸造。立柱跨度大，安装牢靠内部加强筋结构合理，可轻松驾驭各行业的加工要求。

显著提升减震性能

底座铸件采用高级树脂砂铸造，脱模后进行人工时效处理和振动时效处理，以消除铸件内部的内应力，精度保持性好。内部采用井字型加强筋，布局合理。

Significantly Improved Vibration Damping Performance

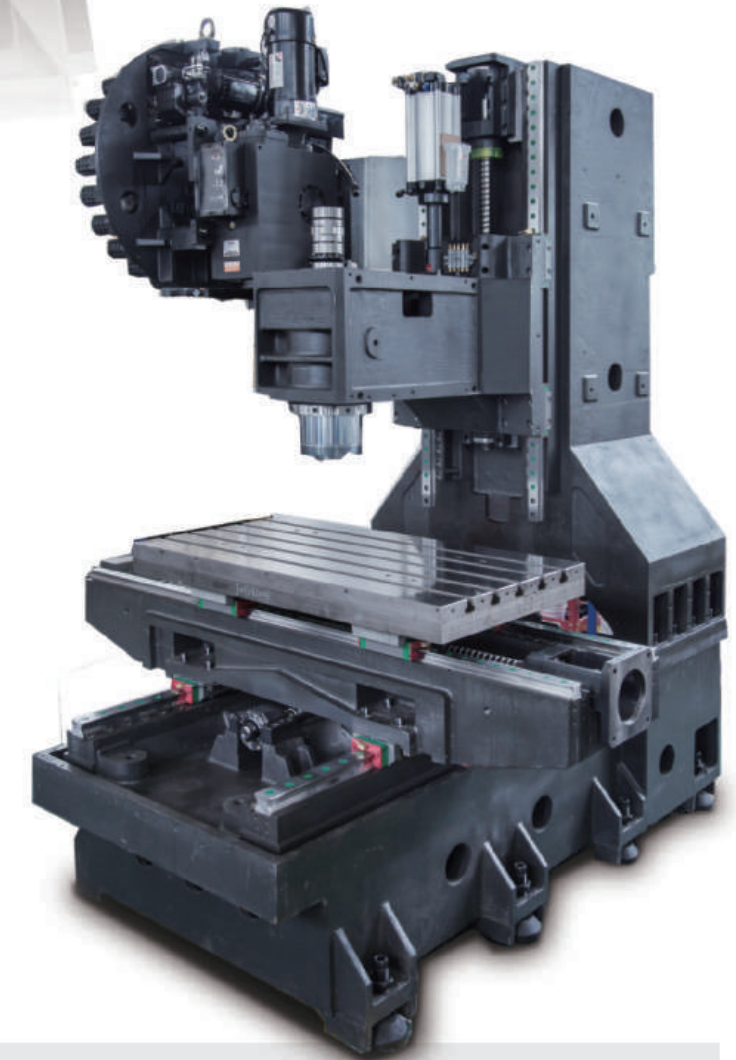
The base castings are made of high-grade resin sand. After demolding, they are subjected to artificial aging treatment and vibration aging treatment to eliminate internal stresses and maintain excellent precision retention. Cross-shaped reinforcing ribs are used internally with reasonable layout.

Reinforced Structural Parts

The column castings are made of high-grade resin sand. The column span is large and the installation is secure. The internal reinforcing ribs are reasonably structured, which can easily meet the machining requirements of different industries.



工作台承重: 600kg, 工作台尺寸: 1000×550mm
三轴位移: 36/36/36 m/min
主轴转速: 8000rpm, 刀库容量: 24pcs



HIGH RIGIDITY VERTICAL MACHINING CENTERS

VMC-1580

重载型滚柱直线导轨
Heavy Duty Roller Linear Guide Rail

高刚性立式加工中心系列

- ▶ 采用台湾上银/银泰P级滚柱或德国力士乐滚珠线轨，X/Y/Z 线轨宽度55/45/55mm，Z轴选配硬轨。
- ▶ 三轴采用台湾上银/银泰Φ50*10mm C3级丝杆，采用两端预拉设计，消除反向间隙，采用日本NSK或NICHAP4级滚珠丝杆轴承，X、Y、Z轴6轴承设计，丝杆预拉处理，防止热变位，提供出色的机床定位精度和刚性。
- ▶ Taiwan HIWIN/PMI P-class rollers or Germany Rexroth ball linear rails with X/Y/Z-axis linear rail width of 55/45/55mm and Z-axis hard rail (optional).
- ▶ The three axes adopt Taiwan HIWIN/PMI Φ50*10mm C3 screws with pre-drawn design at both ends to eliminate backlash. Japanese NSK NICHAP4 ball screw bearings are used with 6-bearing joint design for X, Y, and Z axes. The the screws are pre-drawn to prevent thermal deformation and provide excellent positioning accuracy and rigidity.



油、气系统一体式布局
Integrated Layout of Oil and Gas Systems



“人”字型立柱结构

结构设计为多年成熟稳定的“人”字型立柱结构，加强刚性和抗弯、抗扭性能；超宽底座设计，降低机床重心，提升机床的稳定性。

"Herringbone" Column Structure

Proven and stable "herringbone" column structure is used to strengthen the rigidity and resistance to bending and torsion performance. Ultra-wide base is used to lower the center of gravity of the machine tool to enhance its stability.

三轴标配滚柱线轨

高承载负荷，切削抗振能力强；选配滚珠线轨：高速摩擦小、反应灵敏加速快且定位精度高。X、Z轴采用6滑块，Y轴采用8滑块，刚性加强。

Three-Axis Standard Roller Linear Rail

High bearing load and cutting vibration resistance, optional ball linear rail, low friction at high speed, responsive acceleration and high positioning accuracy. The X and Z-axis adopts 6 sliders and Y-axis adopts 8 sliders to enhance rigidity.

机床亮点 MACHINE TOOL FEATURES



机床电柜 Electrical Cabinet

把发热的电器、电阻散热器隔开；无空气对流防止灰尘、油雾、湿气进入电柜，控制电柜温度稳定，提高整机工作效能和电子元件寿命。机床系统电池升级，寿命可长达5年。

The heating appliances and resistance radiator are separated without air convection to prevent dust, oil mist and moisture from entering the electrical cabinet. The temperature of the electrical cabinet is stable to improve the working efficiency of the machine and the life span of electronic elements. The system battery is upgraded with up to 5 years of life.

高性能、高精度主轴

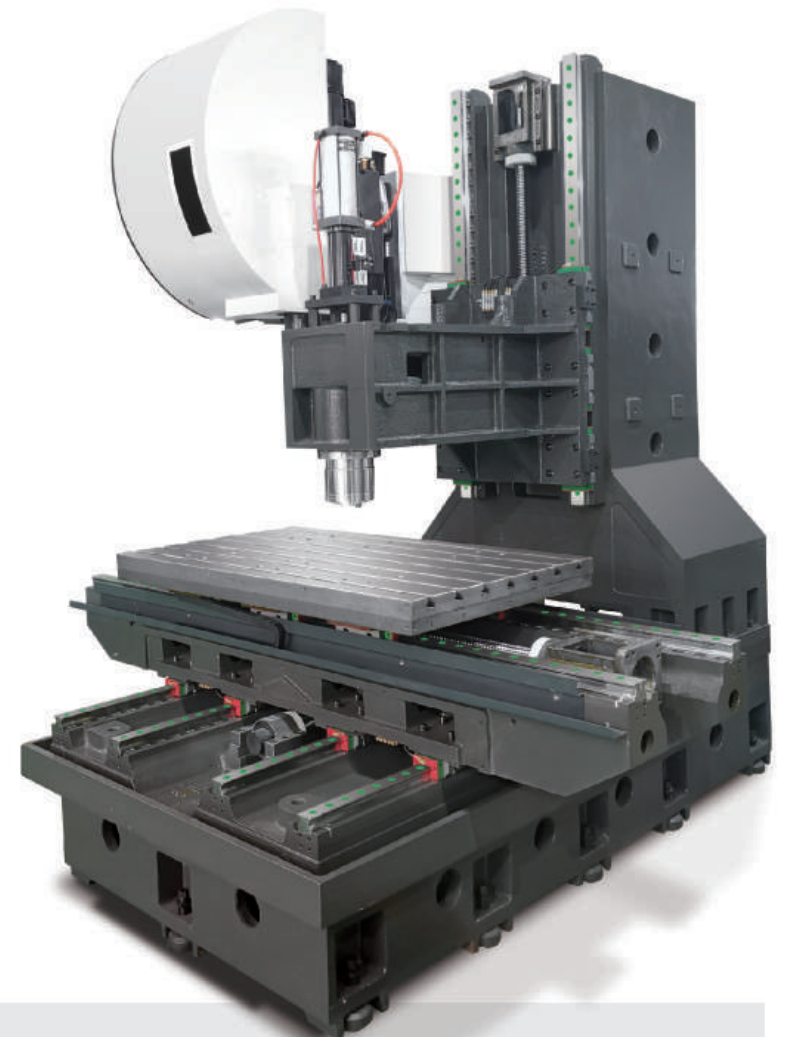
高性能、高精度主轴长时间高精度维持完美加工同时，其耐久性和高速加工性能为用户提供优异的加工品质

High Performance and High Accuracy Spindle

The high-performance and high-precision spindle can work for a long time with excellent precision retention while its durability and high-speed machining performance provide users with excellent machining quality.



工作台承重: 1200kg, 工作台尺寸: 1600×800mm
三轴位移: 24/24/24 m/min
主轴转速: 6000rpm, 刀库容量: 24pcs



TECHNICAL PARAMETERS OF VERTICAL MACHINING CENTERS

立式加工中心技术参数

机床型号 Model		单位	VMC-855	VMC-1160	VMC-1370	VMC-1580	VMC-1690	VMC-1890
行程	Stroke	Unit						
X轴行程	X-axis stroke	mm	800	1100	1300	1500	1600	1500
Y轴行程	Y-axis stroke	mm	550	600	700	800	900	800
Z轴行程	Z-axis stroke	mm	550	600	700	700	700	700
主轴端面至工作台的距离	Distance from front of spindle to worktable	mm	120-670	120-720	70-770	160-860	160-860	160-860
主轴中心到Z轴线轨面	Distance from spindle center to Z-axis linear rail	mm	655	710	810	925	950	950
工作台	Worktable							
工作台尺寸	Size	mm	1000x550	1200x600	1400x700	1600x800	1700x900	1900x900
工作台最大承重	Max. load capacity	kg	600	800	1000	1200	2000	3000
T型槽尺寸(宽x槽数x间距)	T-slot dimensions(Width x Number of Slots x Spacing)	mm	18x5x90	18x5x100	18x5x110	22x7x110	22x7x125	22x7x125
主轴	Spindle							
主轴马达马力	Motor horsepower	kw	7.5/11	7.5/11	11/15 (15/18.5opt)	15/18.5	15/18.5	15/18.5
主轴转速	Spindle speed	r/min	8000皮带(可选直联10000/12000/15000)		6000皮带(可选直联8000/10000/12000/15000)		6000皮带(belt)	
主轴直径	Diameter	mm	Φ150	Φ150	Φ155	Φ190 (短鼻端)	Φ190(短鼻端Short nose side)	
主轴锥度	Taper	bt	BT40	BT40	BT50/BT40(opt)	BT50/BT40(opt)	BT50/BT40(opt)	BT50/BT40(opt)
拉丁规格	Spigot specifications	/	BT40*450	BT40*450	MAS403 BT50-L	MAS403 BT50-L	MAS403 BT50-L	MAS403 BT50-L
进给率	Feed Rate							
导轨X轴	Guide rail X-axis	mm	2-35	2-45	2-45	2-55	2-55	2-55
导轨Y轴	Guide rail Y-axis	mm	2-45	2-45	4-45	4-45	4-55	4-55
导轨Z轴	Guide rail Z-axis	mm	2-45	2-45/硬轨Hard rail	2-45/硬轨Hard rail	2-55/硬轨Hard rail	2-55/硬轨Hard rail	2-55/硬轨Hard rail
丝杆XYZ轴	Screw X/Y/Z-axis	mm	Φ40	Φ40	Φ50	Φ50	Φ50	Φ50
切削进给速度范围	Cutting feed speed range	mm/min	1-10000	1-10000	1-6000	1-6000	1-6000	1-6000
X/Y/Z轴快速位移	X/Y/Z-axis rapid displacement	m/min	36/36/36	36/36/36	24/24/24	24/24/24	18/18/18	18/18/16
精度	Accuracy							
定位精准	Positioning accuracy	mm	0.005	0.005	0.008	0.008	0.008	0.008
重复定位精度	Repeated positioning accuracy	mm	0.003	0.003	0.005	0.005	0.005	0.005
刀库(选配)	Tool Magazine (Optional)							
刀库容量	Capacity	T	24	24	24	24	24	24
刀具重量	Tool weight	kg	8	8	15	15	15	15
刀具长度	Tool length	mm	300	300	350	350	350	350
最大直径(满刀/邻空刀)	Max. diameter (Fully loaded/no adjacent tool)	mm	Φ80/Φ150	Φ80/Φ150	Φ110/Φ200	Φ110/Φ200	Φ110/Φ200	Φ110/Φ200
一般规格	General Specifications							
机床外观尺寸(长x宽x高)	Machine dimensions	mm	2650x2700x2450	3600x2650x2550	3550x3350x3050	4250x3550x3200	4500x3500x3500	6000x3800x3800
净重	Net weight	kg	5800	6800	10500	12500	14500	15000

※注：由于本公司技术不断的研发改良，样本中部分机型参数，技术规格如有变更，具体规格以业务商谈时为准，样本中的图片参数仅供参考。
※Note: Some of the machine parameters and technical specifications are subject to change due to continuous technology improvement. Specific specifications are subject to negotiations and the sample parameters are for reference only.

标准配置 Standard Configuration

- ☐ 三菱或法那科控制系统
Mitsubishi or FANUC control system
- ☐ 电控箱热交换器
Electrical box heat exchanger
- ☐ 以太网、LED工作灯
Ethernet、LED work light
- ☐ 移动式手轮、全密式护罩
Mobile handwheel、Fully enclosed cover
- ☐ 自动润滑系统
Automatic lubrication system
- ☐ 刚性攻牙功能
Rigid tapping device
- ☐ 24T圆盘式刀库
24T Disc tool magazine
- ☐ 主轴油冷机、切削液系统
Spindle oil cooler、Cutting fluid system
- ☐ 滑道伸缩钢制护盖
Retractable chute steel cover
- ☐ 切削液箱及过滤装置
Cutting fluid tank and filter
- ☐ 调整螺丝及垫铁
Adjusting screw and washer
- ☐ 工作状态警示灯
Working status indicator
- ☐ 隔离式变压器
Isolated transformer
- ☐ 使用说明书、工具箱
Operating manual、Toolbox
- ☐ 无影照明
Shadowless lighting device

选购配件 Optional Parts

- ☐ 第四轴、齿轮箱
Fourth axis、Gearbox
- ☐ 自动刀长测量仪
Automatic tool length measuring instrument
- ☐ BBT40/HSK63A
BBT40/HSK63A
- ☐ 摇篮式五轴
Cradle type 5-axis
- ☐ 履带式排屑装置含集屑车
Crawler-type chip remover with chip collector
- ☐ 自动安全门
Automatic safety door
- ☐ 油水分离装置
Oil-water separator
- ☐ 三轴光学尺
Three-axis optical ruler
- ☐ 主轴中心出水
Spindle center outlet
- ☐ 侧铣头（手动装置）
Side milling head (Manual device)
- ☐ 高压冲屑装置
High pressure chip flushing device

TURRET/TURNING CENTERS

TC-460E

刀塔/车削中心系列

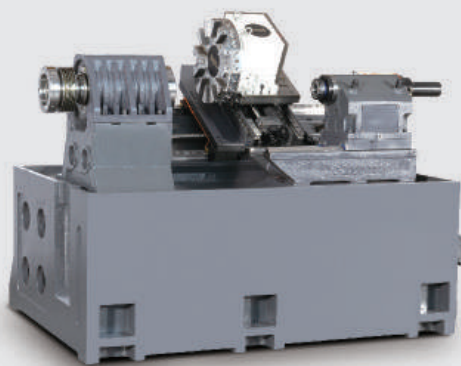
伺服刀塔 SERVO TURRET

- ▶ 使用伺服马达驱动，定位精度高。动作敏捷，稳定不乱刀。
- ▶ 快速90rpm, 1.2sec / 转，换刀0.8sec(12刀)，可配合客户需求选择VDI刀盘或角式刀盘。
- ▶ Driven by servo motor with high positioning accuracy, rapid movement, excellent stability and without disorderly cutting.
- ▶ Fast speed 90rpm, 1.2sec/rev and 0.8sec for adjacent tool (12 tools). VDI tool disk or angle tool disk can be provided according to customer requirements.



全系列新升级 NEWLY UPGRADED FULL RANGE OF PRODUCTS

- ▶ 适用于加工轴类零件，螺纹、圆弧、圆锥及回转体的内、外曲面。
- ▶ 特别适合于汽车工业、电子工业、摩托车、家电、家具、灯饰等行业，对旋转体类零件进行高效、大批量高精度加工。
- ▶ 斜床身数控车床具有倾斜30°的特点，加强机床的排屑能力，节省机床的使用空间。
- ▶ Suitable for machining shaft parts, threads, arcs, cones and internal/external surfaces of rotating parts.
- ▶ Especially suitable for efficient, high-volume and high-precision machining of rotating parts in automobile, electronic, motorcycle, home appliance, furniture and lighting decoration industries.
- ▶ Slant-bed CNC lathe can tilt 30°, which enhances the chip removal ability and saves the footprint.



SINGLE/DUAL SPINDLE TURNING AND MILLING CENTERS

TC-550CY

单/双主轴车铣中心系列

- ▶ 该产品适用于航空工业，新能源汽配行业，医疗器械等需多面加工的复杂精密零件领域。
- ▶ 高刚性床身结构，高精度车削铣技术，高效响应动态表现。运动部件进行力学与动态优化，较同类机型提升30%的刚性及动态性。
- ▶ This product is suitable for multi-sided machining of precision parts in the aviation, new energy automobile parts and medical equipment industries.
- ▶ High-rigidity bed structure, high-precision turning and milling technology and high-efficient response. The rotating parts are mechanically and dynamically optimized to increase rigidity and dynamics by 30% compared to similar machines.



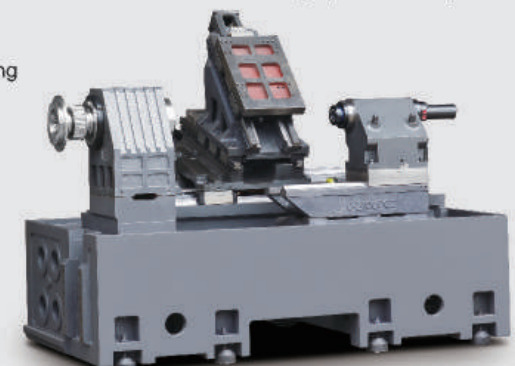
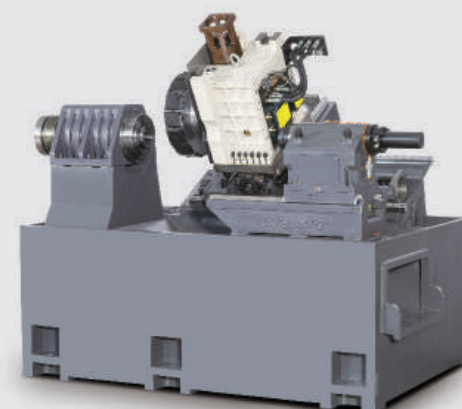
- ▶ 第二主轴能够实现完全同步，入料至成品一气呵成，实现复杂零件高效精准生产。
- ▶ The second spindle can be fully synchronized to achieve efficient and accurate production of complex parts by one-time feeding.



技术加持，演绎高效精准加工表现

TECHNOLOGY-ENHANCED, EFFICIENT AND PRECISE MACHINING PERFORMANCE

- ▶ 动力学优化设计，确保机床的整体高性，稳定性及动态精度。
- ▶ 整体高强度阶梯轨结构床身，实现高强度的车削性能。
- ▶ The dynamically optimized design of the machine ensures the high performance, stability and dynamic accuracy.
- ▶ High-strength ladder-rail structure bed ensures high turning performance.



工件展示 WORKPIECE SHOWCASE



高性能配件 HIGH PERFORMANCE ACCESSORIES

机床采用全封闭防护，保证加工过程中工作人员人身安全，并且使加工过程中的冷却液和铁屑得到安全充分的回收，确保工作场所的干净整洁。

The machine tool is fully enclosed to ensure the personal safety in the machining process and the coolant and iron chips can be safely and completely recycled to ensure the cleanliness of the workplace.

标准配置

- ☐ 台湾新代22TB数控系统
- ☐ 液压刀塔(12工位伺服刀塔)
- ☐ 8寸中空液压卡盘
- ☐ 冷却系统
- ☐ 全封闭防护罩
- ☐ 自动润滑系统
- ☐ 机床调整垫铁
- ☐ 伺服主电机
- ☐ 切屑箱
- ☐ 脚踏开关
- ☐ 液压尾座
- ☐ 三色指示灯

可选配置

- ☐ Fanuc, MITSUBISHI等系统
- ☐ 自动排屑机(含集屑车)
- ☐ 10寸液压动力卡盘

TECHNICAL PARAM
车床系列技术参数

机床型号 Model	单位	
加工范围参数 Machining Range Parameters	Unit	
床身回转直径 Bed rotary diameter	mm	
盘类最大加工直径 Max. machining diameter of disc	mm	
拖板最大加工直径 Max. machining diameter of drag plate	mm	
最大铣削长度 Max. milling length	mm	
最大加工长度 Max. machining length	mm	
主轴/卡盘 Spindle/Chuck		
主轴规格 Spindle specifications	/	
主轴孔径 Spindle bore diameter	mm	
棒材通孔 Bar through hole	mm	
液压卡盘 Hydraulic chuck	寸	
主轴最高转速rpm Max. spindle speed	rpm/min	
主轴电机功率KW Spindle motor power	kW	
进给 Feed		
X/Z轴导轨规格 X/Z-axis guide rail specifications	/	
Y轴导轨规格 Y-axis guide rail specifications	/	
X/Z极限行程 X/Z-axis limit stroke	mm	
Y轴行程 Y-axis stroke	mm	
尾座 Tailstock		
尾座/ZB轴行程 Tailstock/ZB shaft stroke	mm	
尾座套筒锥度 Tailstock sleeve taper	/	
套筒伸缩 Sleeve expansion	/	
尾座导轨 Tailstock guide rail	/	
伺服刀塔 Servo turret		
伺服刀塔 Servo turret	/	
车削动力刀塔 Turning Power Turret		
伺服动力刀塔 Servo-powered turret	/	
动力头最高转速 Max. speed of power head	rpm	
机床尺寸 Machine Dimensions		
床身结构 Bed structure	度	
外形尺寸(长×宽×高) Dimensions	mm	
机床重量(约) Weight(Approx.)	kg	

※注：由于本公司技术不断的研发改良，样本中部分机型参数，技术规格
※Note: Some of the machine parameters and technical specifications are subject to change

ETERS OF LATHE SERIES

TC-350L	TC-460E	TC-460E/750	TC-680	TC-460EY	TC-550CY	TC-550SY
500	500	560	600	500	600	600
350	400	460	550	350	330	300
170	200	330	370	170	200	200
/	/	/	/	450	550	550
320	500	750	1000	450	520	500+背刀40
A2-6	A2-6/A2-8	A2-6/A2-8	A2-8	A2-6/A2-8	A2-6/A2-8	主A2-6 副A2-5
66	66	87	87	66	87	主66 副56
52	52	72	72	52	72	主52 副45
8"	8"/10"	10"	10"	8"/10"	8"/10"	主8" 副6"
4000	3000	2500	2500	4000	3000	主4000 副5000
≥11	≥15	≥15	≥15	≥15	≥18.5	主≥18.5 副≥11
35#	35#/35#	45#/35#	45#/55#	35#	35#/45#	35#/45#
/	/	/	/	硬轨Hard rail	35#	35#
250/400	250/520	250/830	350/1100	250/520	270/600	260/600
/	/	/	/	±50	+58至-50	+58至-50
/	370	750	150	370	425	ZB轴500
/	莫氏5#	莫氏5#	莫氏5#	5#	4#	/
/	80	80	100	80	/	/
/	硬轨 Hard rail	硬轨 Hard rail	硬轨 Hard rail	硬轨 Hard rail	线轨 Linear rail	线轨 Linear rail
100-12T	100-12T	100-12T	100-12T	/	/	/
BMT55-12T/BMT45-15T	BMT55-12T/BMT45-15T	BMT55-12T/BMT45-15T	BMT55-12T/BMT45-15T	BMT55-12T/BMT45-15T	BMT55-12T/BMT45-15T	BMT55-12T/BMT45-15T
4000	4000	4000	4000	4000	4000	4000
整体式 Integral 35°	整体式 Integral30°	整体式 Integral30°	整体式 Integral30°	高低轨15° 斜床身(30° 插补Y轴)	高低轨15° 斜床身(30° 插补Y轴)	高低轨15° 斜床身(30° 插补Y轴)
2250×1590×1950	2850×1780×1750	2900×1900×1880	3900×2000×2000	2850×1780×1750	2900×1950×2100	2900×1950×2100
3000	4000	4300	6200	4500	5500	6000

如有变更，具体规格以业务商谈时为准，样本中的图片参数仅供参考。
due to continuous technology improvement. Specific specifications are subject to negotiations and the sample parameters are for reference only.

STANDARD CONFIGURATION

- ☐ Taiwan SYNTEC 22TB CNC system
- ☐ Hydraulic turret (12-station servo turret)
- ☐ 8" Hollow hydraulic chuck
- ☐ Cooling system
- ☐ Fully enclosed cover
- ☐ Automatic lubrication system
- ☐ Adjusting iron gasket
- ☐ Servo motor
- ☐ Chip box
- ☐ Foot switch
- ☐ Hydraulic tailstock
- ☐ Three-color indicator

OPTIONAL PARTS

- ☐ Fanuc and MITSUBISHI systems
- ☐ Automatic chip remover(Including chip collector)
- ☐ 10" Hydraulic power chuck