



东莞市睿泽机械有限公司
Dongguan Ruize Machinery Co., Ltd.

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精密CNC数控设备制造商
Manufacturer of Precision CNC Equipment

RUIZE



高精度 高刚性 高效率

High Precision, High Rigidity, High Efficiency

21T夹臂式刀库，可满足多刀具加工需求。

21T clamp arm type tool magazine can meet the needs of multi tool machining.

打刀臂与导板联动配合，实现换刀过程快速平稳。

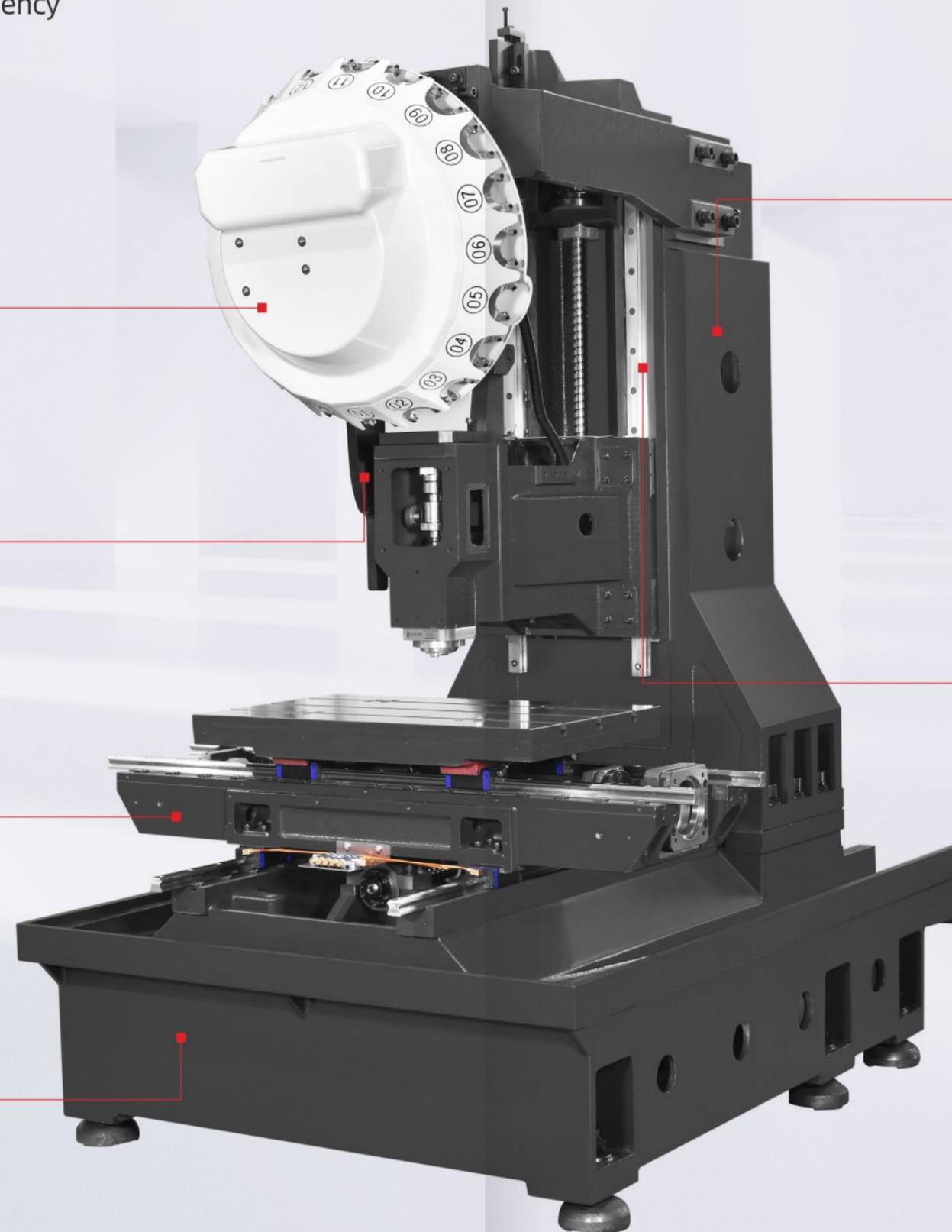
The knife arm and guide plate are linked and coordinated to achieve a fast and stable tool changing process.

工作台和鞍座采用轻量化设计，有效地提升快速移动能力。

The workbench and saddle adopt a lightweight design, effectively enhancing the ability to move quickly.

超大底座设计，采用七点支撑结构，可实现长时间稳定切削。

The super large base design adopts a seven point support structure, which can achieve long-term stable cutting.



大跨距“人”字型立柱，具有超强切削刚性。

The large span "human" shaped column has super strong cutting rigidity.

Z轴设计使用滚柱导轨，切削时更高速稳定。

The Z-axis design uses roller guides for faster and more stable cutting.

高精度 高刚性 高效率

High Precision, High Rigidity, High Efficiency

主轴箱双层壁板结构设计，可实现长时间稳定切削。

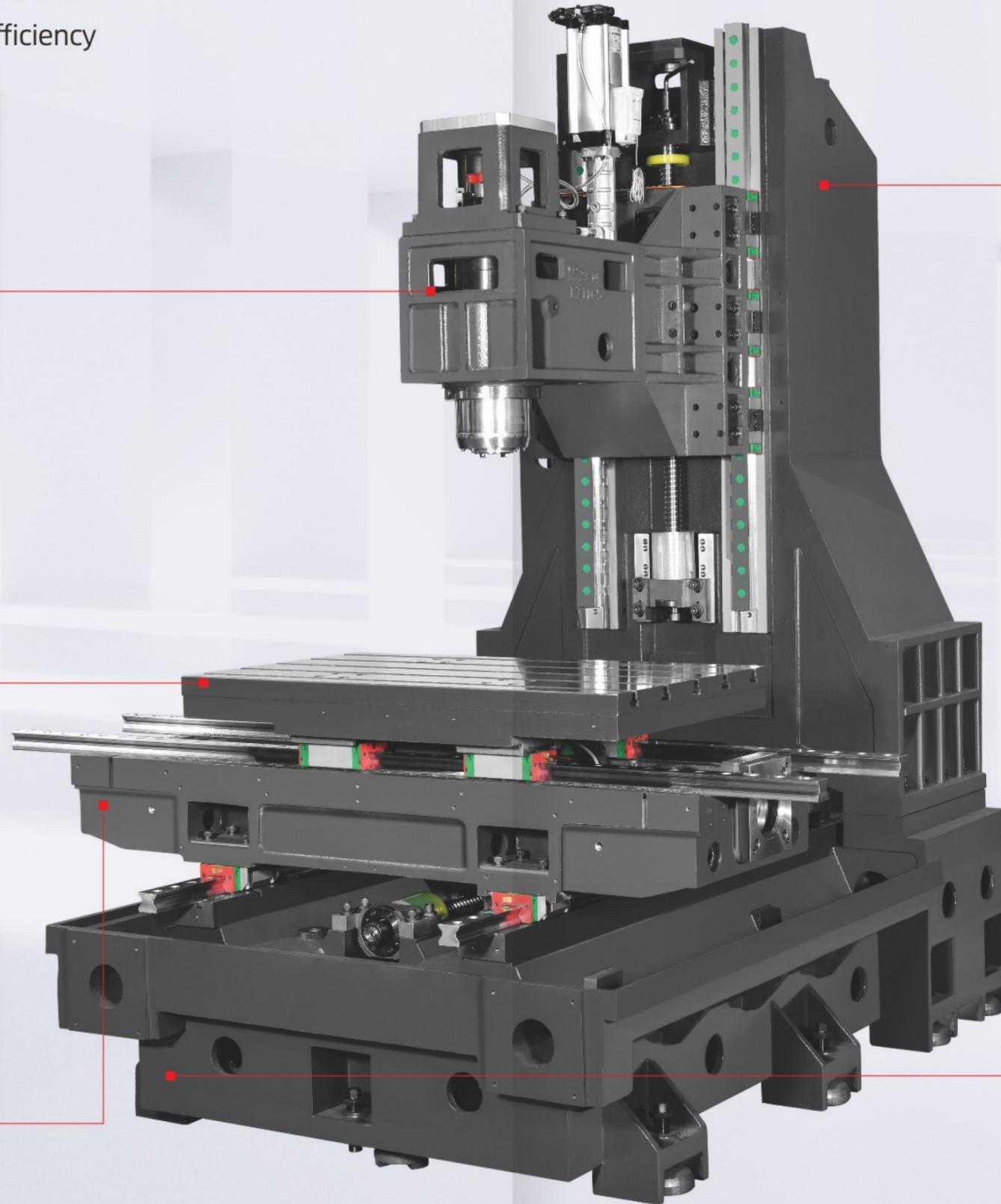
The double-layer wall panel structure design of the spindle box can achieve long-term stable cutting.

工作台超大尺寸设计，可提供更大加工空间；工作台表面高频淬火处理，可提高工作台表面硬度和稳定性。

The workbench is designed with a super large size, which can provide greater processing space; High frequency quenching treatment on the surface of the workbench can improve its hardness and stability.

鞍座双层壁板结构设计，大跨距支撑，出色的动态性能。

The saddle double-layer wall panel structure design, large span support, and excellent dynamic performance.



大跨距“人”字型立柱，具有超强切削刚性，确保重切削的抗扭曲力与极佳的吸震能力。

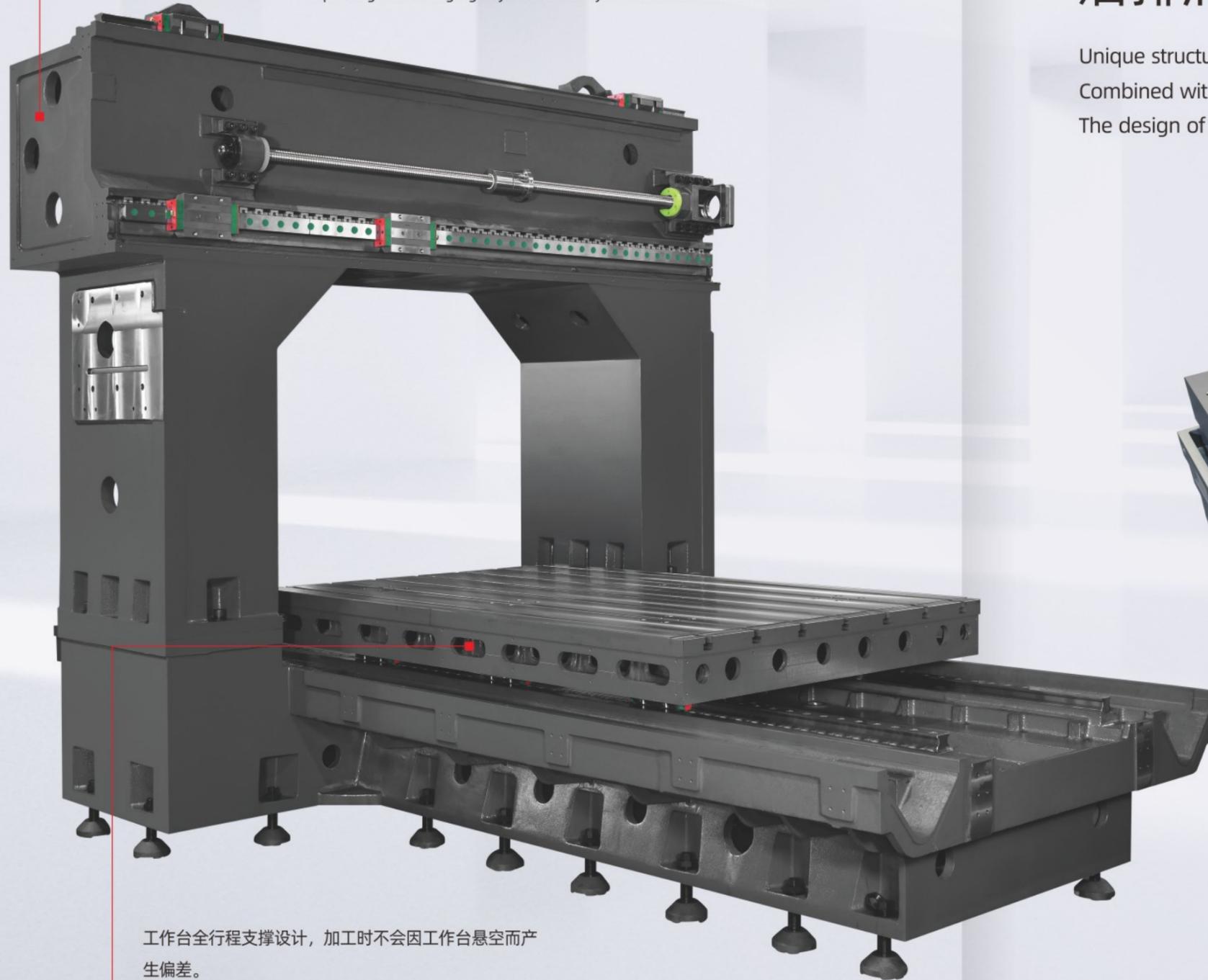
The large-span herringbone shaped column has super strong cutting rigidity, ensuring anti twisting force and excellent shock absorption ability for heavy cutting.

超大跨距底座，采用十点支撑结构，可实现长时间稳定切削；双螺排结构设计，排屑简单方便。

The ultra large span base adopts a ten point support structure, which can achieve long-term stable cutting; Double screw row structure design, simple and convenient chip removal.

一体式横梁、立柱结构，横梁采用斜背式和谐段式设计，铸件为箱型构造，配合双层肋骨强化设计，大幅度提高整机切削刚性和精度保持性。

Integrated crossbeam and column structure, the crossbeam adopts a slanted back and harmonious section design, and the casting is a box shaped structure, combined with double-layer rib reinforcement design, greatly improving the cutting rigidity and accuracy retention of the entire machine.



工作台全行程支撑设计，加工时不会因工作台悬空而产生偏差。

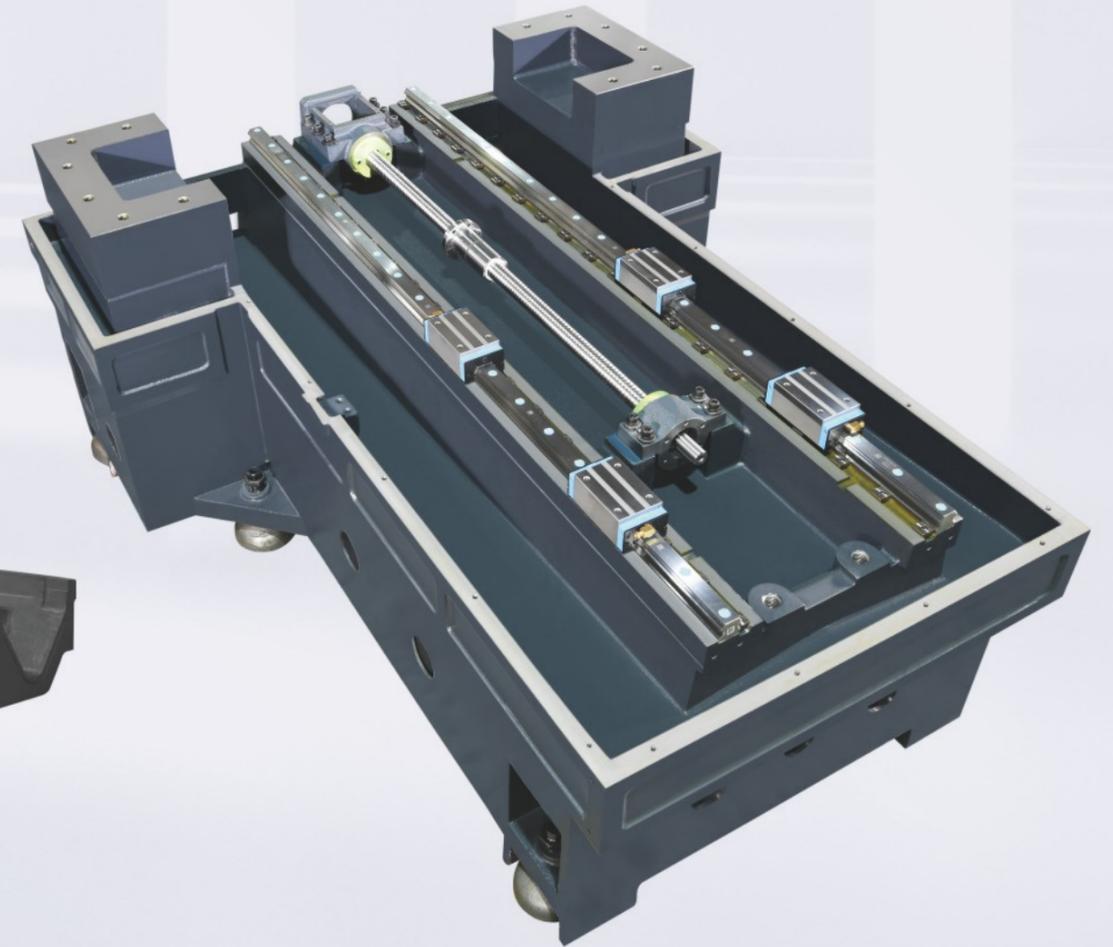
The worktable is designed with full stroke support, so that there will be no deviation during processing due to the worktable being suspended.

独特的结构设计 配合有限元分析，超强刚性 后排屑结构设计，清渣更方便

Unique structural design

Combined with finite element analysis, super rigidity

The design of the rear debris structure makes cleaning more convenient



■ 数控系统 (选配)

CNC System (Optional)



■ 机床配置

Machine Tool Configuration



皮带主轴
Belt spindle



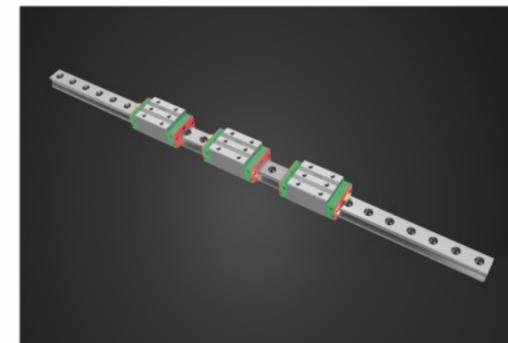
直连主轴
Directly connected spindle



BT30-100直连主轴
BT30-100 direct spindle



轴承
Bearing



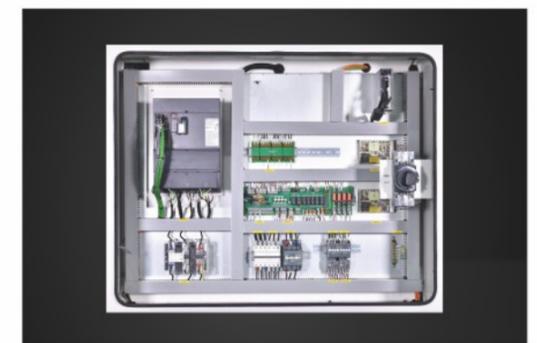
直线导轨
Linear guide rail



滚珠丝杆
Ball screw



刀臂式伺服刀库
Arm type servo tool magazine



配电盘
Distribution panel



高速立式加工中心系列
High Speed Vertical Machining Center Series

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两线一硬加工中心机系列
Two-line Integrated Hard Machining Center Machine Series

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高速钻攻五轴联动加工中心系列
High Speed Drilling And Five Axis Linkage Machining Center Series



高速钻攻中心系列
High-speed Drilling And Tapping Center Series

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高刚性模具硬轨机系列
High Rigid Mold Hard Rail Machine Series

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卧式/立卧复合加工中心系列
Horizontal And Vertical Composite Machining Center Series

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高速雕铣机系列
High-speed Engraving And Milling Machine Series

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高速型材加工中心系列
High-speed Profile Machining Center Series

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龙门加工中心机系列
Gantry Machining Center Series

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行业及应用

■ 助力多种应用高效生产

Helps efficient production in a variety of applications



国防航空
Defense Aviation



零件构造
Part Structure



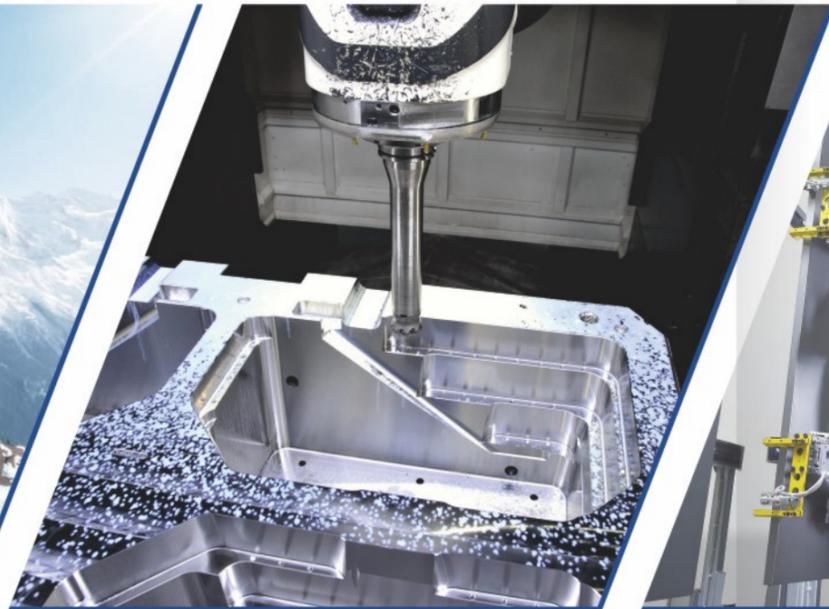
3C电子
3C Electronics



医疗器械
Medical Instruments



汽车工业
Car Industry



模具制造
Mold Making



智能设备
Intelligent Equipment



时尚配饰
Fashion Accessories



■ 公司简介

Company Profile

东莞市睿泽机械有限公司创立于广东省东莞市，是一家集研发、生产、销售、服务为一体的专业数控设备制造企业。

睿泽机械与日本三菱、日本发那科、德国西门子、台湾新代、台湾上银公司建立着紧密深厚的合作关系，公司秉承“诚信、创新、永续、和谐”的经营理念，务求为广大客户提供最为稳定、可靠的产品和全天候保障的售后服务，公司拥有一支实力雄厚的专业技术团队，一直以来领先于国内数控行业。

睿泽机械主导产品有钻孔攻牙中心机、高速零件加工中心机、线轨机、高刚性模具加工中心机、龙门加工中心机、雕铣机等。

Dongguan Ruize Machinery Co., Ltd. was founded in Dongguan, Guangdong Province. It is a professional CNC equipment manufacturing enterprise that integrates research and development, production, sales, and service.

Ruize Machinery has established close and profound cooperative relationships with Mitsubishi, Fanuc, Siemens, New Generation Taiwan, and Shangyin Taiwan. The company adheres to the business philosophy of "integrity, innovation, sustainability, and harmony", and strives to provide customers with the most stable and reliable products and 24-hour after-sales service. The company has a strong professional technical team and has always been leading in the domestic CNC industry.

Ruize Machinery's leading products include drilling and tapping center machines, high-speed parts processing center machines, line rail machines, high rigidity mold processing center machines, gantry processing center machines, carving and milling machines, etc.





■ 装配车间

Assembly Workshop

精益化的组装制程，追求完美品质意识，已深入睿泽人心中。生产效率及品质严格以高标准执行。从技术到实力，到产业配套，再到制造规模，睿泽始终走在行业的最前端，继续保持着行业领先，并不断扩大行业优势。

Lean assembly process, the pursuit of perfect quality awareness, has penetrated into the hearts of Ruize people. Production efficiency and quality are strictly enforced at high standards. From technology to strength, to industry support, to manufacturing scale, Ruize has always been at the forefront of the industry, continuing to lead the industry and expanding its industry advantage.



精密检测

Precision Inspection

精密的检测仪器，完善的质量管理体系！

Precision testing equipment, perfect quality management system!

我司拥有专业的机床检验团队，拥有雄厚的检测实力及精准的检验仪器，可对机床的几何精度、加工精度进行全方位的精度检测，确保您的设备为你生产出更为精确的高精度产品；睿泽每一台设备都是精雕细琢、力求完美，以稳定、可靠的性能满足您的需求。

Our company has a professional machine tool inspection team, with strong testing strength and accurate inspection instruments, which can perform a comprehensive range of precision inspections on the geometric accuracy and machining accuracy of the machine tool to ensure that your equipment produces more accurate high precision Products: Each piece of Ruize equipment is carefully crafted and strives for perfection to meet your needs with stable and reliable performance.



专业服务

Professional Service

Technical Training

技术培训

我们向您提供个性化的客户培训服务，培训可在您工厂现场进行，也可派员工进驻我厂进行；我们的培训课程包括常规铣削操作及编程等特殊课程，投入使用后，贴心的客服伙伴及时为您提供任何相关技术指导。

We provide personalized customer training services to you, which can be conducted on-site in your factory or by sending employees to our factory for training; Our training courses include special courses such as conventional milling operations and programming. After being put into use, our caring customer service partners will provide you with any relevant technical guidance in a timely manner.

Maintenance Service

维修服务

睿泽机械承接数控加工中心设备的升级与改造，24小时一站式上门服务，拥有强大过硬的技术团队和勇于创新的设计理念，具有丰富的工艺分析、机床升级、机床改造的经验，可按照客户要求提供各项有关机床升级与改造的建议与实施，让您的设备为您带来更大的效益。

Ruize Machinery undertakes the upgrading and renovation of CNC machining center equipment, providing 24-hour one-stop on-site service. It has a strong technical team and innovative design concepts, and rich experience in process analysis, machine tool upgrading, and machine tool renovation. We can provide various suggestions and implementation for machine tool upgrading and renovation according to customer requirements, so that your equipment can bring you greater benefits.



工欲善其事，必先利其器！
To be good at work, you must first sharpen it!

Service Advantage

服务优势

- ◆ 基于实际条件下学习操作流程
- ◆ 获得受过专业培训且积极向上的员工
- ◆ 工作效率更高
- ◆ 降低因错误操作而造成机床失效的风险
- ◆ Learning operational processes based on actual conditions
- ◆ Obtain professionally trained and proactive employees
- ◆ Higher work efficiency
- ◆ Reduce the risk of machine tool failure caused by incorrect operations

Service Items

服务项目

- ◆ 维修改造
- ◆ 机床配件更换安装与调试
- ◆ 机床精度检测
- ◆ 机床维护保养
- ◆ 机床故障诊断
- ◆ Maintenance and renovation
- ◆ Replacement, installation, and debugging of machine tool accessories
- ◆ Machine tool accuracy testing
- ◆ Machine tool maintenance and upkeep
- ◆ Machine tool fault diagnosis

■ 高速立式加工中心系列

High Speed Vertical Machining Center Series

高速切削、快速进给，创造高效利润内最佳加工利器
High-speed Cutting, Fast Feed, The Best Tool To Create Efficient Profits



WMC-850
WMC-866
WMC-966P
WMC-1165P
WMC-1380

- ◆ 最佳床身结构设计，能承受高速移动产生的惯量，坚如磐石、稳如泰山。
 - ◆ 三轴高速位移，大幅度缩短加工时间。
 - ◆ 高速稳定换刀系统，减少非加工时间。
 - ◆ 采用后排屑结构，方便清理积屑，不易漏油。
 - ◆ 三轴均采用高刚性线轨支撑，速度快、精度高、稳定性强。
-
- ◆ The optimal bed structure design can withstand the inertia generated by high-speed movement, and is as solid as a rock and as stable as Mount Tai.
 - ◆ The three-axis high-speed displacement greatly shortens the processing time.
 - ◆ High-speed and stable tool change system reduces non-processing time.
 - ◆ The rear chip removal structure is adopted, which is convenient for cleaning the accumulated chips and is not easy to leak oil.
 - ◆ All three axes are supported by high-rigidity linear rails, with high speed, high precision and strong stability.



Tool Magazine

刀库

圆盘式自动换刀装置，采用3D凹转换刀仅须1.8秒刀盘上可容纳24支刀，能适应各种加工需要；刀具装卸容易，使用任意式，刀具管理与登记更加方便。

The disc-type automatic tool changer adopts a 3D concave conversion tool in only 1.8 seconds. The cutter head can accommodate 24 tools, which can adapt to various processing needs. The tool is easy to load and unload, and the use of arbitrary tools makes tool management and registration more convenient.

Spindle

主轴

主轴头法兰盘设计搭配环状出水动屑将主轴马达之传输效率发挥到极致，切削刚性特佳，提高加工精度，并延长主轴寿命。

The design of the spindle head flange combined with the annular water discharge chip maximizes the transmission efficiency of the spindle motor, with excellent cutting rigidity, improves machining accuracy, and extends the spindle life.

Without Counterweight

无配重

Z轴采用无配重设计，搭配大功率刹车伺服马达之传输效率发挥到极致，切削刚性特佳，提高加工精度，并延长主轴寿命。

The Z-axis uses a counterweight-free design, with the transmission efficiency of the high-powered brake servo motor being maximized, the cutting rigidity is extremely good, the machining accuracy is improved, and the spindle life is extended.

Slide Rail

滑轨

三轴采用台湾HIWIN/PMI线性滑轨，具有高刚性、低音、低摩擦、高灵敏度，可提升加速度及精度。

Three axes adopt Taiwan HIWIN / PMI linear slide, which has high rigidity, low noise, low friction and high sensitivity, which can improve acceleration and accuracy.

Specifications

规格参数

机型 Model	单位	WMC-850	WMC-866	WMC-966P	WMC-1165P	WMC-1380
行程 Travel						
X轴行程 X-axis travel	mm	800	800	900	1100	1300
Y轴行程 Y-axis travel	mm	500	600	650	650	800
Z轴行程 Z axis travel	mm	500	600	650	650	800
主轴鼻端至工作台距离 Spindle nose to table surface	mm	105-605	170-770	130-780	130-780	160-960
工作台 Table						
工作台尺寸 Table size	mm	1000*500	1000*600	1000*600	1200*650	1400*800
最大载重 Max load on table	kg	500	600	600	700	800
T型槽 T-slot size	mm	18-4*(120-105)	18-5*100	18-5*120	18-5*120	18-6*120
进给 Feed						
X,Y轴快速进给 X, Y axis rapid feed	m/min	48	36	36	36	36
Z轴快速进给 Z axis rapid feed	m/min	48	36	36	36	36
三轴切削进给 Three-axis cutting feed	mm/min	1-10000	1-10000	1-10000	1-10000	1-10000
主轴 Spindle						
主轴转速 Spindle speed	r.p.m	10000/12000	10000/12000	10000/12000	10000/12000	10000/12000
主轴锥度 Spindle taper		BT40/140	BT40/150	BT40/150	BT40/150	BT40/BT50
主轴马力 Spindle motor	kw	7.5	7.5	7.5	11	11
其它 Other						
刀库 Tool magazine				24T全封闭		
X,Y,Z轴导轨规格 X,Y,Z axis guide specifications	mm	MSA35	MSA45	MSA45	MSA45	MSA45
X,Y,Z轴丝杆规格 X,Y,Z axis screw specifications	mm	3616	4012	4012	4012	5012
控制器 Controller	set	SYNTEC / MITSUBISHI: M80 FANUC: Oi-MD/Oi-Mate-MD/SIEMENS828D				
定位精度 Positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300
重复定位精度 Repeat positioning accuracy	mm	±0.003	±0.003	±0.003	±0.003	±0.003
机械重量 Machine weight	kg	5200	5800	5800	6500	9000
机械尺寸 Machine size	mm	2450*2800*2705	2700*2500*2550	2650*2645*3100	2850*2645*3100	3800*2800*3300

*本公司随时进行研究改进工作，因此保有更改设计、规格之权利，对此恕不另行通知！
The company conducts research and improvement work at any time, so it reserves the right to change the design and specifications without notice.

■ 两线一硬加工中心机系列

Two-line Integrated Hard Machining Center Machine Series

线轨、硬轨相结合，适合多种材料加工

Combination of linear and hard rails, suitable for processing a variety of materials

VMC-850L
VMC-1060L
VMC-1270L
VMC-1370L



- ◆ 底座采用A字形肋骨结构布局提高吸振效果，整体铸件采用箱体设计，抗弯刚性强。
- ◆ 结构采用高品质米汉钠铸铁材质，经回火处理消除内应力，确保最佳刚性精度持久性。
- ◆ 高刚性结构源自于多年经验数据累积与有限元分析软件辅助设计，合理的结构强度及加强筋的搭配，提高铸件刚性。
- ◆ 高速换刀机构设计，配合预先感应控制，结合高效率换刀系统，进行换刀工作，换刀速度快，实现高速换刀功能。

- ◆ The base adopts A-shaped rib structure layout to improve the vibration absorption effect, and the overall casting adopts box design, which has strong bending rigidity.
- ◆ The structure is made of high-quality Meehan sodium cast iron, which is tempered to eliminate internal stress and ensure the best rigidity, accuracy and durability.
- ◆ The high-rigidity structure is derived from the accumulation of years of experience and data and the aided design of finite element analysis software, reasonable structural strength and the combination of reinforcing ribs to improve the rigidity of castings.
- ◆ High-speed tool change mechanism design, combined with pre-induction control, combined with high-efficiency tool change system, to carry out tool change work, the tool change speed is fast, and the high-speed tool change function is realized.

Machine Features

机器特点

X、Y轴线轨，Z轴硬轴确保良好的循圆精度和切削力度。

精密滚珠螺杆采用双螺母设计，两端支撑座共采用五个滚珠轴承锁紧并加以预拉，确保热膨胀时之精度保持不变。

箱形底座，大跨距A型立柱，确保良好的精度保持性。

所有润滑系统均采用容积式润滑泵，确保所有润滑点均匀供油，保持机械良好的润滑，延长使用寿命。

X, Y-axis rail, Z-axis hard axis ensure good circular accuracy and cutting force.

The precision ball screw adopts double nut design, and the support bases at both ends are locked by five ball bearings and pre-tensioned to ensure that the accuracy remains unchanged during thermal expansion.

Box-shaped base and long-span A-type column ensure good accuracy retention.

All lubricating systems use positive displacement lubricating pumps to ensure even oil supply to all lubricating points, keep the machinery well lubricated and prolong service life.

Specifications

规格参数

机型 Model	单位	VMC-850L	VMC-1060L	VMC-1270L	VMC-1370L
行程 Travel					
X轴行程 X-axis travel	mm	800	1000	1200	1300
Y轴行程 Y-axis travel	mm	500	600	700	700
Z轴行程 Z axis travel	mm	500	600	600	600
主轴鼻端至工作台距离 Spindle nose to table surface	mm	110-610	70-670	87-687	150-750
主轴中心至立柱距离 Spindle centerline to column	mm	560	655	785	785
工作台 Table					
工作台尺寸 Table size	mm	1000*500	1300*600	1360*700	1360*700
最大载重 Max load on table	kg	450	800	1000	1000
T型槽 T-slot size	mm	18-5*90	18-5*100	18-5*122	18-5*122
进给 Feed					
X,Y轴快速进给 X, Y axis rapid feed	m/min	24	24	24	24
Z轴快速进给 Z axis rapid feed	m/min	18	18	18	18
三轴切削进给 Three-axis cutting feed	mm/min	1-10000	1-10000	1-10000	1-10000
主轴 Spindle					
主轴转速 Spindle speed	r.p.m	8000/10000	8000/10000	8000/10000	8000/10000
主轴锥度 Spindle taper		BT40/150	BT40/150	BT40/BT50	BT40/BT50
主轴马力 Spindle motor	kw	7.5	11	11	15
其它 Other					
刀库 Tool magazine			24T全封闭		
X,Y,Z轴线轨规格 X,Y,Z axis guide specifications	mm	X/35 Y/45	X/45 Y/55	X/55 Y/45	X/55 Y/45
X,Y,Z轴丝杆规格 X,Y,Z axis screw specifications	mm	4012	4012	5010	5010
控制器 Controller	set		SYNTEC / MITSUBISHI: M80 FANUC: 0i-MD/0i-Mate-MD/SIEMENS828D		
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 Repeat positioning accuracy	mm	±0.003	±0.003	±0.003	±0.003
机械重量 Machine weight	kg	5500	7500	8500	9500
机械尺寸 Machine size	mm	2700*2400*2800	3300*2700*2900	3600*2800*2900	3600*2800*2900

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■ 高刚性模具硬轨机系列

High Rigid Mold Hard Rail Machine Series

削铁如泥，模具加工行业的利器

Cutting iron like mud, a tool for the mold processing industry



VMC-850B
VMC-1060B
VMC-1270B
VMC-1370B
VMC-1580B
VMC-1690B
VMC-1890B

- ◆ 机械皆采用箱体结构，铸件刚性强度特佳。
 - ◆ 主轴采用精密级主轴专用轴承，精度及稳定皆优。
 - ◆ 精密级滚珠螺杆采用双螺帽，每轴两端支撑座共采用五个滚珠轴承，专用轴承加以预拉，以确保热变形之精度。
 - ◆ 电机与螺杆采用高密联轴器直接传动，可减少传动间隙。
- ◆ The machinery adopts box structure, and the rigidity and strength of castings are excellent.
- ◆ The spindle adopts precision-grade spindle special bearings, which are excellent in accuracy and stability.
- ◆ The precision-grade ball screw adopts double nuts, and the support seat at both ends of each shaft adopts a total of five ball bearings. The special bearings are pre-pulled to ensure the accuracy of thermal deformation.
- ◆ The motor and the screw are directly driven by high-density coupling, which can reduce the transmission clearance.



Machine Features

机器特点

X、Y轴线轨，Z轴硬轴确保良好的循圆精度和切削力度。

X, Y-axis rail, Z-axis hard axis ensure good circular accuracy and cutting force.

精密滚珠螺杆采用双螺母设计，两端支撑座共采用五个滚珠轴承锁紧并加以预拉，确保热膨胀时之精度保持不变。

The precision ball screw adopts double nut design, and the support bases at both ends are locked by five ball bearings and pre-tensioned to ensure that the accuracy remains unchanged during thermal expansion.

箱形底座，大跨距A型立柱，确保良好的精度保持性。

Box-shaped base and long-span A-type column ensure good accuracy retention.

所有润滑系统均采用容积式润滑泵，确保所有润滑点均匀供油，保持机械良好的润滑，延长使用寿命。

All lubricating systems use positive displacement lubricating pumps to ensure even oil supply to all lubricating points, keep the machinery well lubricated and prolong service life.

Specifications

规格参数

机型 Model	单位	VMC-850B	VMC-1060B	VMC-1270B	VMC-1370B	VMC-1580B	VMC-1690B	VMC-1890B
行程 Travel								
X轴行程 X-axis travel	mm	800	1000	1200	1300	1500	1600	1800
Y轴行程 Y-axis travel	mm	500	600	700	700	800	900	900
Z轴行程 Z axis travel	mm	550	600	600	650	700	680	800
主轴鼻端至工作台距离 Spindle nose to table surface	mm	105-655	180-780	150-750	150-800	185-885	160-840	160-960
主轴中心至立柱距离 Spindle centerline to column	mm	550	600	785	785	810	950	950
工作台 Table								
工作台尺寸 Table size	mm	1050*500	1300*630	1360*700	1400*710	1700*800	1800*900	2000*900
最大载重 Max load on table	kg	600	800	1000	1000	1500	1600	1600
T型槽 T-slot size	mm	18-5*100	18-5*120	18-5*152.5	18-5*152.5	22-5*135	22-5*165	22-5*165
进给 Feed								
X,Y轴快速进给 X, Y axis rapid feed	m/min	15	15	12	12	12	12	12
Z轴快速进给 Z axis rapid feed	m/min	12	12	10	10	10	10	10
三轴切削进给 Three-axis cutting feed	mm/min	1-10000	1-10000	1-10000	1-10000	1-10000	1-10000	1-10000
主轴 Spindle								
主轴转速 Spindle speed	r.p.m	8000/10000	8000/10000	8000/10000	8000/10000	8000/10000	8000/6000	8000/6000
主轴锥度 Spindle taper		BT40/150	BT40/150	BT40/BT50	BT40/BT50	BT40/BT50	BT50	BT50
主轴马力 Spindle motor	kw	7.5~11	7.5~11	11~15	15~18.5	15~18.5	18.5~22	18.5~22
其它 Other								
刀库 Tool magazine				24T全封闭				
X,Y,Z轴线轨规格 X,Y,Z axis guide specifications	mm	4010	4010	5010	5010	XY/6310 Z/5010	5512	5512
控制器 Controller	set	SYNTEC / MITSUBISHI: M80 FANUC: Oi-MD/Oi-Mate-MD/SIEMENS828D						
定位精度 Positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300
重复定位精度 Repeat positioning accuracy	mm	±0.003	±0.003	±0.003	±0.003/300	±0.003/300	±0.003/300	±0.003/300
机械重量 Machine weight	kg	5500	7500	9000	9500	12300	12800	13800
机械尺寸 Machine size	mm	2700*2400*2500	3300*2700*2900	3600*2800*2900	3700*2850*2700	4110*3100*3200	4310*3100*3300	6000*3800*3300

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■ 高速钻攻中心系列

High-speed Drilling And Tapping Center Series

RZ-T600
RZ-T650
RZ-T750
RZ-T800
RZ-T3845

- ◆ 超大跨距立柱，稳定不易变形，最高速位移48m/分。
 - ◆ 超大跨距底座，采用七点支撑结构扎实，高速位移时不振动、不变形。
 - ◆ 三轴高速位移达48m/分，速度快，节省加工时间。
 - ◆ 低惯性的主轴设计，主轴直结驱动，高稳定性，夹臂刀库换刀快速准确，换刀时间为1.4秒，除零件加工外，非常适合钻直径较小的孔。
 - ◆ 用高惯量AC主轴伺服马达与人性化的对话式界面，便于操作。
-
- ◆ The super-span column is stable and not easy to deform, and the maximum speed displacement is 48m/min.
 - ◆ The super-span base adopts a solid seven-point support structure, which does not vibrate or deform during high-speed displacement.
 - ◆ The three-axis high-speed displacement reaches 48m/min, the speed is fast, and the processing time is saved.
 - ◆ Spindle design with low inertia, direct drive of the spindle, high stability, fast and accurate tool change in the clamping arm tool magazine, tool change time is 1.4 seconds, in addition to parts processing, it is very suitable for drilling small diameter holes.
 - ◆ With high inertia AC spindle servo motor and humanized dialogue interface, it is easy to operate.

选配：三菱、发那科、西门子、新代数控系统

Optional Configuration: Mitsubishi, Fanuc, Siemens, Syntec CNC System



Direct Drive 直接式传动

马达与主轴直接连结能有效消除背隙，扭力传达更加稳定，确保加工的品质；可提高高刚性攻牙的效率，同时避免产生温升与噪音。

The direct connection between the motor and the spindle can effectively eliminate backlash, more stable torque transmission, and ensure the quality of the machined surface; it can improve the efficiency of high rigid tapping, while avoiding temperature rise and noise.

High Horsepower Spindle Motor 高马力主轴马达

搭配FANUC之高扭力交流马达。

High torque AC motor with FANUC.

Specifications 规格参数

机型 Model	单位	RZ-T600	RZ-T650	RZ-T750	RZ-T800	RZ-T3845
行程 Travel						
X轴行程 X-axis travel	mm	600	650	750	800	750
Y轴行程 Y-axis travel	mm	400	450	450	500	450
Z轴行程 Z axis travel	mm	360	400	400	420	400/400
主轴鼻端至工作台距离 Spindle nose to table surface	mm	150-510	130-530	130-530	130-550	130-530
主轴中心至立柱距离 Spindle centerline to column	mm	523	533	533	546	533
工作台 Table						
工作台尺寸 Table size	mm	700*420	750*460	850*460	1000*500	850*460
最大载重 Max load on table	kg	350	350	350	500	350
T型槽 T-slot size	mm	3*14*100	3*14*125	3*14*125	5*18*102	3*14*125
进给 Feed						
X,Y轴快速进给 X, Y axis rapid feed	m/min	48	48	48	48	48
Z轴快速进给 Z axis rapid feed	m/min	48	48	48	48	48
三轴切削进给 Three-axis cutting feed	mm/min	1-10000	1-10000	1-10000	1-10000	1-10000
主轴 Spindle						
主轴转速 Spindle speed	r.p.m	15000/20000/24000	15000/20000/24000	15000/20000/24000	15000/20000/24000	15000/20000/24000
主轴锥度 Spindle taper		BT30	BT30	BT30	BT30	BT30*2支
主轴马力 Spindle motor	kw	5.5	5.5	5.5	5.5	5.5*2
其它 Other						
刀库 Tool magazine				21T伺服刀库		BT30-16T/21T*2
三轴马达功率 Three axis motor power	kw			1.5/1.5/3		1.5/1.5/3/3
控制器 Controller	set			SYNTEC / MITSUBISHI: M80 FANUC: Oi-MD/Oi-Mate-MD/SIEMENS828D		
定位精度 Positioning accuracy	mm			±0.005/300		
重复定位精度 Repeat positioning accuracy	mm			±0.0025		
机械重量 Machine weight	kg	3100	3300	3300	4000	4000
机械尺寸 Machine size	mm	2100*1800*2350	2030*2428*2433	2030*2428*2433	2300*2400*2700	2030*2430*2315

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■ 高速雕铣机系列

High-speed Engraving And Milling Machine Series

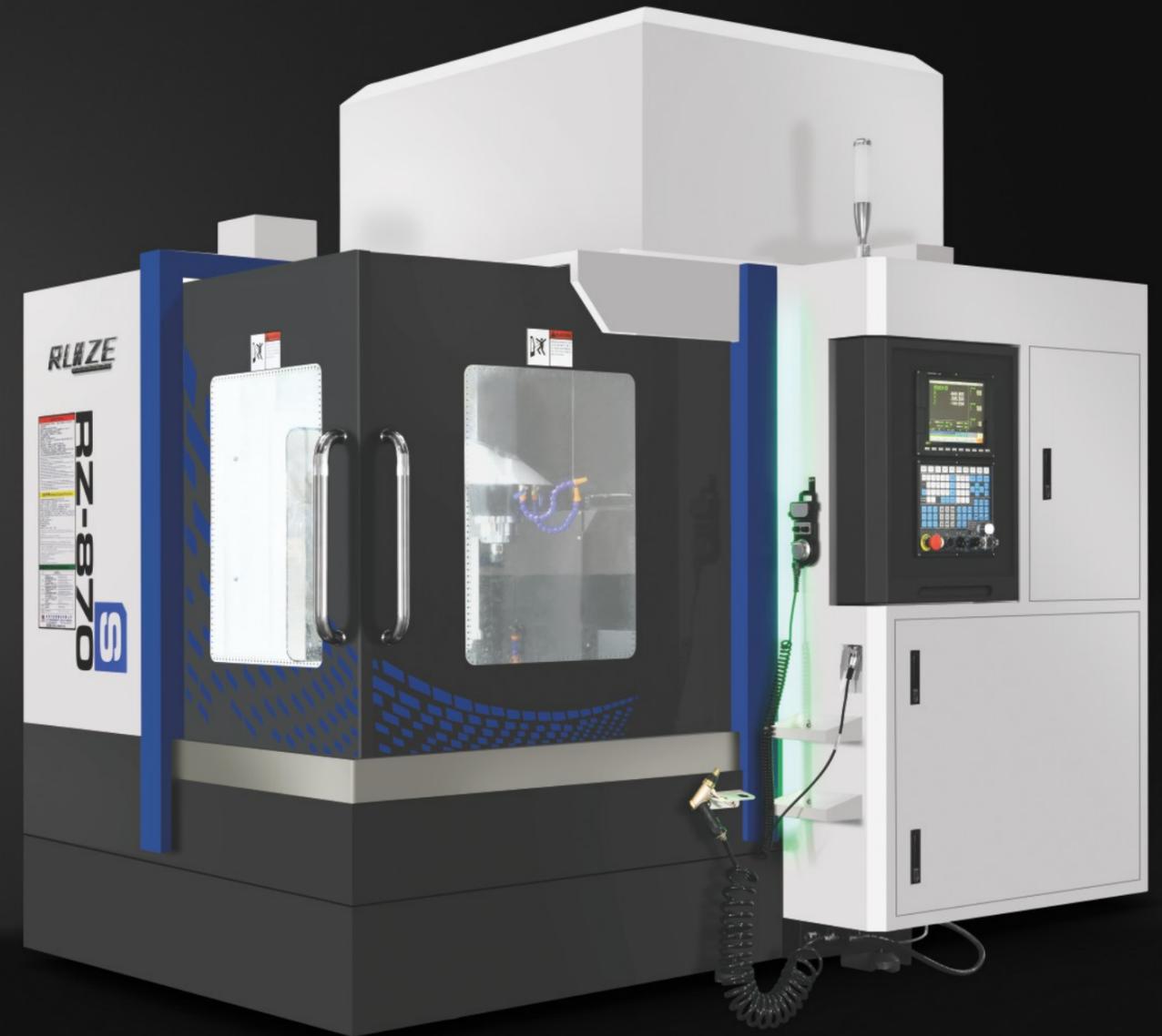
高刚性设计提升切削稳定性，龙门式高刚性结构
High rigidity design improves cutting stability, gantry type high rigidity structure

RZ-650
RZ-760
RZ-870
RZ-1280
RZ-1510



◆ 适用于雕刻模具类、塑胶模具类、制鞋业、眼镜业、五金业、商标业、工艺品业以及石墨电极的加工。广泛应用于有机玻璃、PVC板、ABS板、KT板、木材、宝石、大理石、陶瓷、铝塑板、铁、铜、铝、塑料凳等各种材料进行表面加工及切削。

◆ Applicable to the processing of engraving molds, plastic molds, footwear, glasses, hardware, trademarks, crafts and graphite electrodes. Widely used in plexiglass, PVC board, ABS board, KT board, wood, gem, marble, ceramic, aluminum-plastic board, iron, copper, aluminum, plastic stool and other materials for surface processing and cutting.



Machine Features

机器特点

机床采用独特的横梁、床身一体技术。龙门式高刚性结构。确保机械长期高精度与使用寿命，抗震性强。

The machine adopts a unique technology of integrated beam and bed. Gantry type high rigid structure. To ensure long-term high precision and service life of the machine, and strong shock resistance.

三轴采用进口高精度直线导轨和滚珠丝杆，耐磨、摩擦系数小，具有较高的定位精度和灵活性，运动平稳的特点。

The three axes use imported high-precision linear guide rails and ball screws, which are wear-resistant and have a low coefficient of friction, high positioning accuracy and flexibility, and stable movement.

采用日本NSK轴承及进口联轴器。

高速、高扭力、高精度电主轴，可满足高速加工需求及精度保证；可实现小型精密模具及零件高速铣削、加工精度高、震动小、噪音低。

Japanese NSK bearings and imported couplings are used.

High-speed, high-torque, high-precision electric spindles can meet the needs of high-speed processing and accuracy assurance; can achieve high-speed milling of small precision molds and parts, high processing accuracy, low vibration and low noise.

控制系统采用台湾新代、宝元高速数控系统，易学易用，易于掌握。

驱动系统采用日本安川、日本山洋交流驱动伺服系统，运行平稳，加速性能优越，噪音小，控制精度高。

The control system adopts Taiwan's new generation and Baoyuan high-speed numerical control system, which is easy to learn and use, and easy to master.

The drive system adopts Japan Yaskawa and Japan Yamayo AC drive servo system, which runs smoothly, has excellent acceleration performance, low noise, and high control accuracy.

Specifications

规格参数

机型 Model	单位	RZ-650	RZ-760	RZ-870	RZ-1280	RZ-1510
行程 Travel						
X轴行程 X-axis travel	mm	600	600	700	800	1000
Y轴行程 Y-axis travel	mm	500	700	800	1200	1500
Z轴行程 Z axis travel	mm	260	300	380	500	500
主轴鼻端至工作台距离 Spindle nose to table surface	mm	50-310	80-430	160-540	150-650	150-650
工作台 Table						
工作台尺寸 Table size	mm	500*600	600*700	680*800	800*1200	1600*1100
最大载重 Max load on table	kg	300	400	400	1200	1500
进给 Feed						
X,Y轴快速进给 X, Y axis rapid feed	m/min	12	12	12	10	10
Z轴快速进给 Z axis rapid feed	m/min	12	12	12	10	10
主轴 Spindle						
主轴转速 Spindle speed	r.p.m	18000/24000	18000/24000	18000/24000	18000电主轴/15000 BT40直联式主轴	
主轴夹头 Spindle chuck		ER25/BT-30	ER32/BT-30	ER32/BT-30	BT-40	BT-40
其它 Other						
刀库 Tool magazine				选配12T刀库		
控制器 Controller	set			SYNTEC / MITSUBISHI: M80 FANUC: 0i-MD/0i-Mate-MD/SIEMENS828D		
定位精度 Positioning accuracy	mm	±0.008/300	±0.008/300	±0.008/300	±0.008/300	±0.008/300
重复定位精度 Repeat positioning accuracy	mm	±0.005	±0.005	±0.005	±0.005	±0.005
电源 Power supply		三相四线 3 Phase 9KW	三相四线 3 Phase 9KW	三相四线 3 Phase 9KW	三相四线 3 Phase 13KW	三相四线 3 Phase 13KW
机械重量 Machine weight	kg	3000	3500	4500	8000	10000
机械尺寸 Machine size	mm	1650*1800*2000	1750*2000*2300	2530*1910*2730	2300*3100*2700	4200*3200*3100

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■ 高速型材加工中心系列
High-speed Profile Machining Center Series

RZ-T1600
RZ-T1800
RZ-V1600
RZ-V1800
RZ-V25



Machine Features

机器特点

该机器是一台集铣削、钻孔、攻牙、倒角为一体的自动化复合加工中心，适用于各种长度的型钢、铜、铝型材等金属加工。

This machine is an automatic composite machining center that integrates milling, drilling, tapping and chamfering. It is suitable for processing various lengths of steel, copper, aluminum and other metals.

采用后防护钣金模式，防止屑乱飞。

配备自动排屑机，方便清理。

The rear protective sheet metal mode is adopted to prevent chips from flying around.

Equipped with automatic chip conveyor for easy cleaning.

添加机器防护罩，保证了操作者安全度与环境卫生。

Adding a machine protective cover ensures operator safety and environmental hygiene.

采用快速同步换刀刀库，可以提前备刀，换刀时间只需要2秒。

整机铸造成型，适合高精度加工，稳定性强。

Using the quick synchronous tool change tool magazine, the tool can be prepared in advance, and the tool change time only takes 2 seconds.

The whole machine is cast and formed, which is suitable for high-precision machining and has strong stability.

Specifications

规格参数

机型 Model	单位	RZ-T1600	RZ-T1800	RZ-V1600	RZ-V1800	RZ-V25
行程 Travel						
X轴行程 X-axis travel	mm	1600	1850	1600	1800	2500
Y轴行程 Y-axis travel	mm	500	520	540	550	550
Z轴行程 Z axis travel	mm	320	450	500	500	700
主轴鼻端至工作台距离 Spindle nose to table surface	mm	130-450	130-450	150-650	150-650	110-810
主轴中心至立柱距离 Spindle centerline to column	mm	130-450	550	625	625	634
工作台 Table						
工作台尺寸 Table size	mm	1700*500	1900*500	1700*500	1900*850	3100*500
最大载重 Max load on table	kg	450	500	650	700	1000
T型槽 T-slot size	mm	14-5*100	14-5*100	14-5*100	14-5*100	18-5*106
进给 Feed						
X,Y轴快速进给 X, Y axis rapid feed	m/min	48	48	48	48	36
Z轴快速进给 Z axis rapid feed	m/min	48	48	48	48	36
三轴切削进给 Three-axis cutting feed	mm/min	1-12000	1-12000	1-10000	1-10000	1-10000
主轴 Spindle						
主轴转速 Spindle speed	r.p.m	15000/20000	15000/20000	12000	12000	12000
主轴锥度 Spindle taper		BT30	BT30	BT40	BT40	BT40
主轴马力 Spindle motor	kw	5.5/7.5	5.5/7.5	7.5	7.5	11
其它 Other						
刀库 Tool magazine		21T伺服刀库		24T刀库		
三轴马达功率 Three axis motor power	kw	1.5/1.5/3	1.5/1.5/3	2/2/3	2/2/3	3/3/3
控制器 Controller	set	SYNTEC / MITSUBISHI: M80 FANUC: 0i-MD/0i-Mate-MD/SIEMENS828D		SYNTEC / MITSUBISHI: M80 FANUC: 0i-MD/0i-Mate-MD/SIEMENS828D		
定位精度 Positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300
重复定位精度 Repeat positioning accuracy	mm	±0.004/300	±0.004/300	±0.004/300	±0.004/300	±0.004/300
机械重量 Machine weight	kg	5200	5300	5300	5500	9500
机械尺寸 Machine size	mm	3600*2200*2500	4200*2200*2500	4200*2200*2300	4400*2200*2300	5500*3000*2500

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■ 卧式/立卧复合加工中心系列

Horizontal And Vertical Composite Machining Center Series



RZ-H11
RZ-H1290
RZ-H1814
RZ-LW11

Fixed Column Type 固定立柱型

- ◆ 工作台十字运动，工作台作X、Z向运动，主轴箱作Y向运动，主轴箱在立柱上有正挂、侧挂两种形式；适用于中型复杂零件的镗、铣等多任务序加工。
- ◆ 主轴箱十字运动，主轴箱作X、Z向运动，工作台作Y向运动；适用于中小型零件的镗、铣等多任务序加工。
- ◆ 主轴箱侧挂与主柱，主轴箱作Y、Z向运动，这种布局形式与刨台型卧式铣镗床类似，工作台作X向运动；适用于中型零件镗、铣等多任务序加工。
- ◆ The worktable moves in the cross direction, the worktable moves in the X and Z directions, and the spindle box moves in the Y direction. The spindle box has two forms of front hanging and side hanging on the column; it is suitable for multi-task sequence processing such as boring and milling of medium-sized complex parts.
- ◆ The headstock moves in the cross direction, the headstock moves in the X and Z directions, and the worktable moves in the Y direction; it is suitable for multi-task sequence processing such as boring and milling of small and medium-sized parts.
- ◆ The headstock is hung on the side of the main column, and the headstock moves in Y and Z directions. This layout is similar to the planer type horizontal milling and boring machine, and the worktable moves in X direction; it is suitable for multi-task sequence processing such as boring and milling of medium-sized parts.



Mobile Column Type

移动立柱型

刨台型，床身呈T字形，工作台在前床身上作X向运动，立柱在后床身上作Z向运动；主轴箱在立柱上有正挂、倒挂两种形式，作Y向运动；适用于中、大型零件，特别是长度较大零件镗、铣的多任务序加工。

Planer type, the bed is T-shaped, the worktable moves in the X direction on the front bed, and the column moves in the Z direction on the rear bed; the spindle box has two forms of upside-down and upside-down hanging on the column, and moves in the Y-direction: It is suitable for multi-task processing of medium and large parts, especially the boring and milling of large length parts.

立柱十字运动型，立柱作Z、U（与X向平行）行运动，主轴箱在立柱上作Y向运动，工作台在前床身上作向运动。适用于中型复杂零件的镗、铣等多任务序加工。

Column cross movement type, the column moves in Z, U (parallel to the X direction), the spindle box moves in the Y direction on the column, and the worktable moves in the front bed. It is suitable for multi-task processing such as boring and milling of medium and complex parts.

主轴滑枕进给型，主轴箱在立柱上作Y向运动，主轴滑枕作Z向运动。立柱作X向运动。工作台是固定的，或装有回转工作台；可配备多个工作台，适用于中小型多个零件加工，工件装卸与切削时间可重合。

The spindle ram feed type, the spindle box moves in the Y direction on the column, and the spindle ram moves in the Z direction. The column moves in the X direction. The worktable is fixed, or equipped with a rotary worktable; it can be equipped with multiple worktables, which is suitable for the processing of small and medium-sized parts, and the loading and unloading of workpieces and cutting times can be coincident.

Specifications

规格参数

机型 Model	单位	RZ-H11	RZ-H1290	RZ-H1814	RZ-LW11
行程 Travel					
X轴行程 X-axis travel	mm	1100	1200	1800	1100
Y轴行程 Y-axis travel	mm	650	900	1400	650
Z轴行程 Z axis travel	mm	650	700	900	Z1/500 Z2/600
主轴鼻端至工作台距离 Spindle nose to table surface	mm	0-650	150-850	10-1410	140-640
工作台 Table					
工作台尺寸 Table size	mm	1200*650	1360*700	2000*900	
最大载重 Max load on table	T	800	1000	1600	500
T型槽 T-slot size	mm	18-5*100	18-5*152.5	22-5*165	最大回转直径1200
转台 Turntable	mm	500*500	500*500	800*800	500*500
主轴 Spindle					
主轴转速 Spindle speed	r.p.m	BT40/BT50	BT40/BT50	BT40/BT50	BT40/BT50
主轴传动方式 Spindle transmission mode		皮带8000/6000	皮带8000/6000	皮带8000/6000	皮带8000/10000/12000
线轨及丝杆 Rail and screw					
线轨规格 Specifications rail line	X轴 X axis	mm	45	55	35
	Y轴 Y axis	mm	45	矩形淬火	45
	Z轴 Z axis	mm	45	45	Z1/35 Z2/45
丝杆规格 Screw specifications	X轴 X axis	mm	4012	5010	4012
	Y轴 Y axis	mm	4012	5010	4012
	Z轴 Z axis	mm	4012	5010	Z1/3212 Z2/4012
其它 Other					
刀库 Tool magazine			24T全封闭		24T刀库
机械重量 Machine weight	T	7	8.5	13	9
控制器 Controller	set	MITSUBISHI / SIEMENS / FANUC		MITSUBISHI / SIEMENS / FANUC	

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■ 龙门加工中心机系列

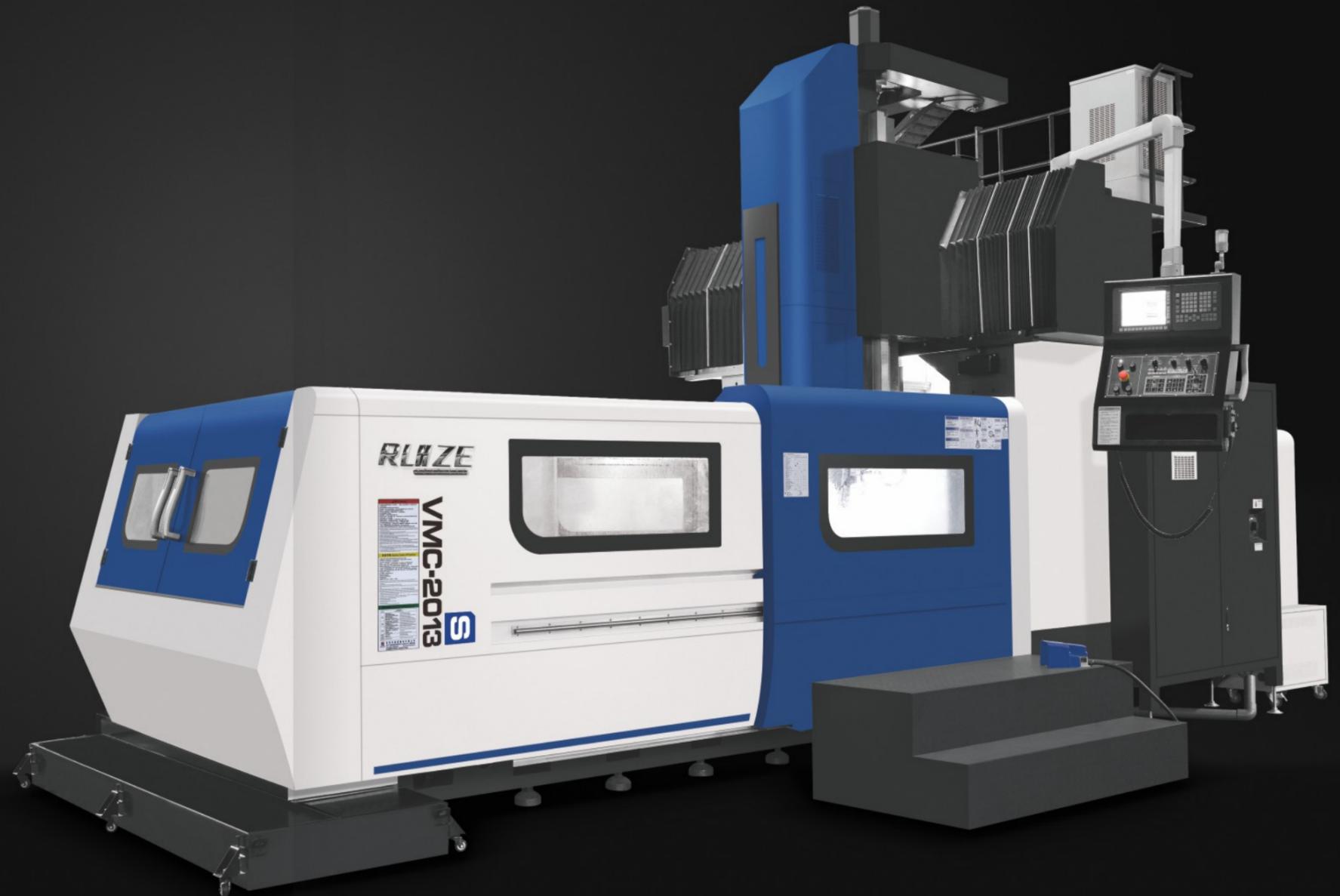
Gantry Machining Center Series

专为精密加工而设计，强大的切削能力
Designed for precision machining with powerful cutting capabilities



VMC-1210
VMC-1510
VMC-1613
VMC-2013
VMC-2015
VMC-2515
VMC-3015

- ◆ 产品稳定性与可靠性大幅度提升，是目前最畅销的龙门加工中心系列。
 - ◆ 一体式龙门结构，采用斜背式和和谐段式设计，铸件为箱型构造，配合双层肋骨强化设计，大幅度提高整机切削刚性和精度保持性。
 - ◆ 完整的各式附加头为您提供更为弹性的加工能力。
 - ◆ 极小占地面积，亦能发挥龙门机强大的切削能力。
 - ◆ 高度商品化成熟机种，品质稳定，交货迅速。
- ◆ Product stability and reliability have been greatly improved, and it is currently the best-selling gantry machining center series.
 - ◆ The integrated gantry structure adopts a slanted back and harmonious section design, with a box shaped casting structure and double layer rib reinforcement design, greatly improving the cutting rigidity and accuracy retention of the entire machine.
 - ◆ A complete range of additional heads provides you with more flexible processing capabilities.
 - ◆ With a very small footprint, it can also exert the powerful cutting ability of the gantry machine.
 - ◆ Highly commercialized mature models with stable quality and fast delivery.



Optimized Spindle System Design 最佳化主轴系统设计

可依不同的加工需求提供齿轮式高扭力主轴，内藏式高速、高扭力主轴以及直结式高速、高功率主轴。

Geared high-torque spindles, built-in high-speed, high-torque spindles, and direct-coupled high-speed, high-power spindles are available according to different processing needs.

High-efficiency Processing Machine 高效率加工机

可结合自动化交换头库与立卧换刀系统成为高效率加工机。

Can be combined with automatic head exchange and vertical and horizontal tool change system to become a high-efficiency processing machine.

Complete Multifunctional Add-on Head 完备的多功能附加头

提供一系列手动或自动的35度头、90度头、延长头、万向头。

Provide a series of manual or automatic 35 degree head, 90 degree head, extension head, universal head.

Specifications 规格参数

机型 Model	单位	VMC-1210	VMC-1510	VMC-1613	VMC-2013	VMC-2015	VMC-2515	VMC-3015
行程 Travel								
X轴行程 X-axis travel	mm	1200	1500	1600	2000	2000	2500	3000
Y轴行程 Y-axis travel	mm	1000	1000	1300	1300	1500	1500	1500
Z轴行程 Z axis travel	mm	500	500	600	800	800	800	800
主轴鼻端至工作台距离 Spindle nose to table surface	mm	200-700	200-700	200-800	170-970	200-1000	200-1000	170-970
工作台 Table								
工作台尺寸 Table size	mm	1300*900	1600*900	1700*1200	1200*2100	1300*2200	1300*2700	1300*3200
T型槽 T-slot size	mm	5-18*165	5-18*165	7-18*150	7-18*150	8-22*150	8-22*150	8-22*150
最大载重 Max load on table	T	2	2.5	3	4	6	6	10
龙门宽度 Gantry width	mm	1050	1050	1400	1400	1525	1525	1525
龙门通过高度 Gantry passing height	mm	770	770	870	1000	1000	1000	1000
Z轴配重 Z-axis counterweight		电机刹车 Motor brake			液压+氮气 Hydraulic + nitrogen			
主轴 Spindle								
主轴转速 Spindle speed	r.p.m	BT40-12000	BT40-12000	BT40-12000	BT50-6000	BT50-6000	BT50-6000	BT50-6000
主轴传动方式 Spindle transmission mode		直联式 Direct connection			直联/皮带 Direct / Belt			
线轨及丝杆 Rail and screw								
线轨规格 Specifications rail line	X轴 X axis	mm	MRB45	MRB45	MRB45	MR55B	MR55B	MR55B
	Y轴 Y axis	mm	MRB45	MRB45	MRB45	MR55B	MR55B	MR55B
	Z轴 Z axis	mm	MRB45	MRB45	MRB45	矩形贴塑导轨 Rectangular plastic guide		
丝杆规格 Screw specifications	X轴 X axis	mm	40*10	50*10	50*10	50*12	63*12	63*12
	Y轴 Y axis	mm	40*10	40*10	50*10	50*12	50*12	50*12
	Z轴 Z axis	mm	40*10	40*10	50*10	50*12	50*12	50*12
其它 Other								
刀库 Tool magazine		24T刀库			24T刀库			
机械重量 Machine weight	T	8.5	9.5	13	16	19	20	23
三轴伺服联接方式 Three-axis servo connection		直联式 Direct connection			直联式 Direct connection			
控制器 Controller	set	MITSUBISHI / SIEMENS / FANUC			MITSUBISHI / SIEMENS / FANUC			

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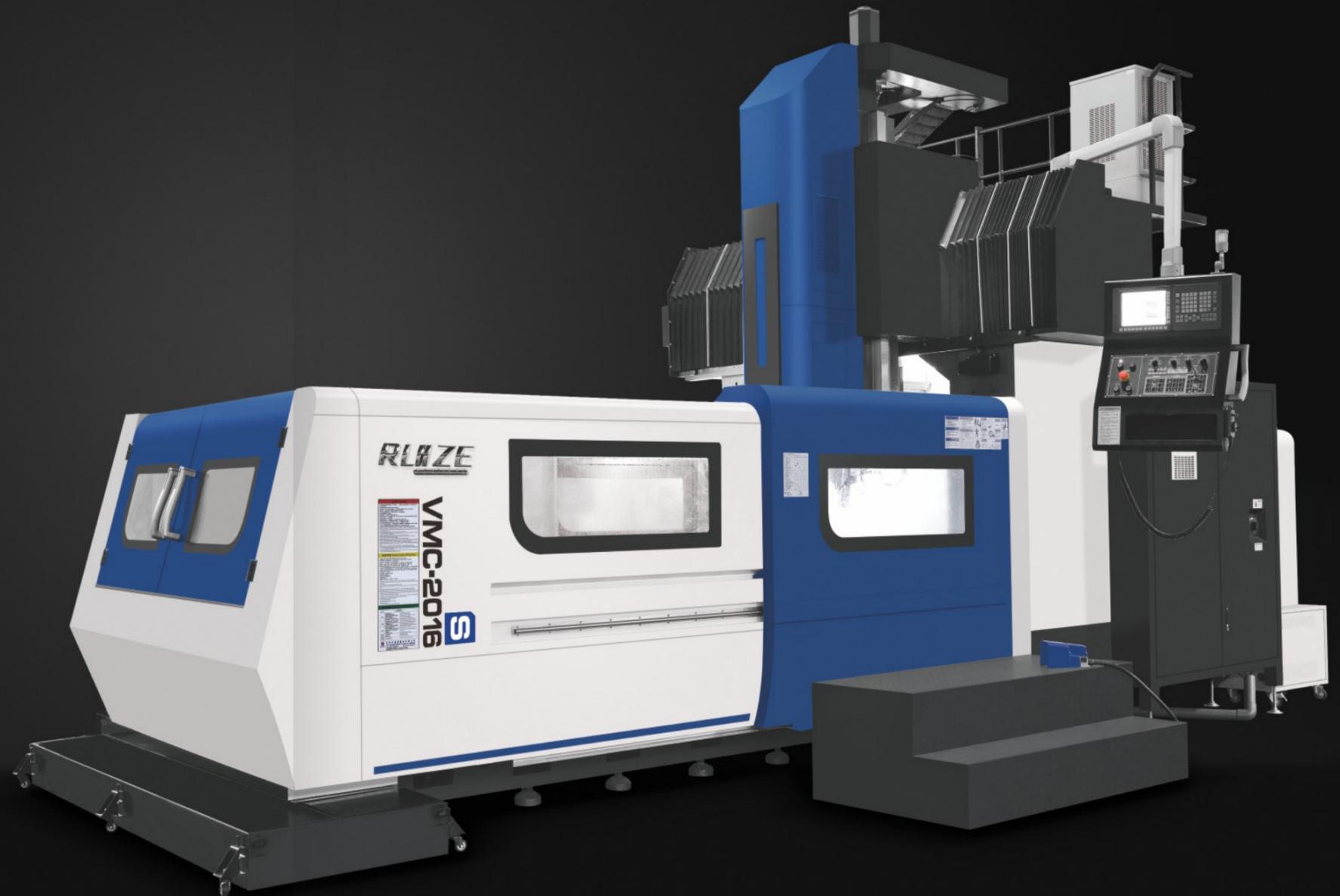
Gantry Machining Center Series

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VMC-1311
VMC-1614
VMC-2016
VMC-2516
VMC-2518
VMC-3016
VMC-3018
VMC-3020

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Specifications

规格参数

机型 Model	单位	VMC-1311	VMC-1614	VMC-2016	VMC-2516	VMC-2518	VMC-3016	VMC-3018	VMC-3020	
行程 Travel										
X轴行程 X-axis travel	mm	1350	1650	2100	2500	2600	3100	3200	3000	
Y轴行程 Y-axis travel	mm	1200	1400	1650	1650	1800	1630	1800	2020	
Z轴行程 Z axis travel	mm	600	700	700	700	700	700	700	900	
主轴鼻端至工作台距离 Spindle nose to table surface	mm	120-730	150-850	150-850	150-850	150-850	150-850	150-850	200-1100	
工作台 Table										
工作台尺寸 Table size	mm	1400*1000	1700*1200	2200*1400	2600*1400	2600*1600	3100*1400	3100*1600	3100*1700	
最大载重 Max load on table	T	2500	3500	4000	4000	4000	4000	4000	6000	
龙门宽度 Gantry width	mm	1220	1420	1650	1650	1850	1650	1850	2020	
主轴 Spindle										
主轴转速 Spindle speed	r.p.m	BT40/150/155			BT40/150 BT50/190					
主轴传动方式 Spindle transmission mode		直联12000 皮带10000/8000/6000								
线轨及丝杆 Rail and screw										
线轨规格 Specifications rail line	X轴 X axis	mm	45	45	45	55	55	55	55	55
	Y轴 Y axis	mm	45	45	45	55	55	55	55	55
	Z轴 Z axis	mm	45	45	45	55	55	55	55	45(4轴)
丝杆规格 Screw specifications	X轴 X axis	mm	50*10	50*10	50*10	50*10	50*10	63*12	63*12	63*12
	Y轴 Y axis	mm	40*10	50*10	50*10	50*10	50*10	50*10	50*10	50*10
	Z轴 Z axis	mm	40*10	50*10	50*10	50*10	50*10	50*10	50*10	50*10
其它 Other										
刀库 Tool magazine		24T刀库								
机械重量 Machine weight	T	8.5	12	16	18	19	20	21	25	
三轴伺服联接方式 Three-axis servo connection		直联式 Direct connection								
控制器 Controller	set	MITSUBISHI / SIEMENS / FANUC								

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销售网络

Sales Network

庞大而运转灵活的销售网络，是企业的核心竞争力，对企业起着至关重要的作用。

A large and flexible sales network is the core competitiveness of an enterprise and plays a vital role in the enterprise.

