



CATALOG

综合目录

立式加工中心 Vertical Machining Center

龙门加工中心 Gantry Machining Center

五轴加工中心 5-axis Machining Center



中国销售中心

China Sales Center

地址：山东省济宁市兖州经济开发区永安路

Address: Yong'an Road, Industrial Park, Yanzhou District, Jining City, Shandong Province

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企业网站 / Website: www.deedmt.com

销售热线 / Sales Hotline(China): 0537 - 3775666

外贸热线 / Sales Hotline(International): +86 537 3451030

售后服务 / After-sale Service: 400 - 113 - 6699

HIPREED

| 德国 (Germany)

欧洲研发、销售中心

Europe R&D, Sales Center

地址 / Address : Stahlwerkstraße 32-D-57555 Mudersbach

ROTLER

| 德国 (Germany)

地址 / Address : Hauptstrasse 39-D-57555 Mudersbach



产品样本内说明文字、图样及技术参数随技术发展而更改，不另行通知。

Statements, figures and technical parameters in the manual instruction are subject to change without notice in advance.





山东蒂德精密机床有限公司位于山东省济宁市，目前是中国机床工具工业协会理事单位和山东省高端装备制造重点企业。公司主要产品高速立式加工中心、大型龙门加工中心、高精密五轴联动加工中心等，产品广泛服务于国内外航空航天、军工船舶、汽车制造、轨道交通、风电装备、电子模具等行业用户；公司通过持续的技术引进和联合研发制造，公司深入消化、吸收了德国高端机床设计理念、构造技术及关键零部件、整机的制造工艺，产品精度、稳定性达到行业领先水平。

未来的时间里，公司将围绕“中国制造2025”和“山东省新旧动能转换重大工程战略”的发展要求，沿着科技化、高端化、品牌化和国际化的整体目标，全面利用新材料、新技术、新工艺、新理念和新模式，重点研发高端装备制造业所需的高档、精密加工中心产品，不断提升科技创新能力，为机床行业技术进步和社会经济发展贡献更多力量。

Founded in 2007, Shandong Yonghua Machinery Co., Ltd. is committed to R&D and manufacture of high quality CNC machine tool, main products including high-speed vertical machining center, large gantry machining center, heavy portal milling machine and 5-axis machining center.

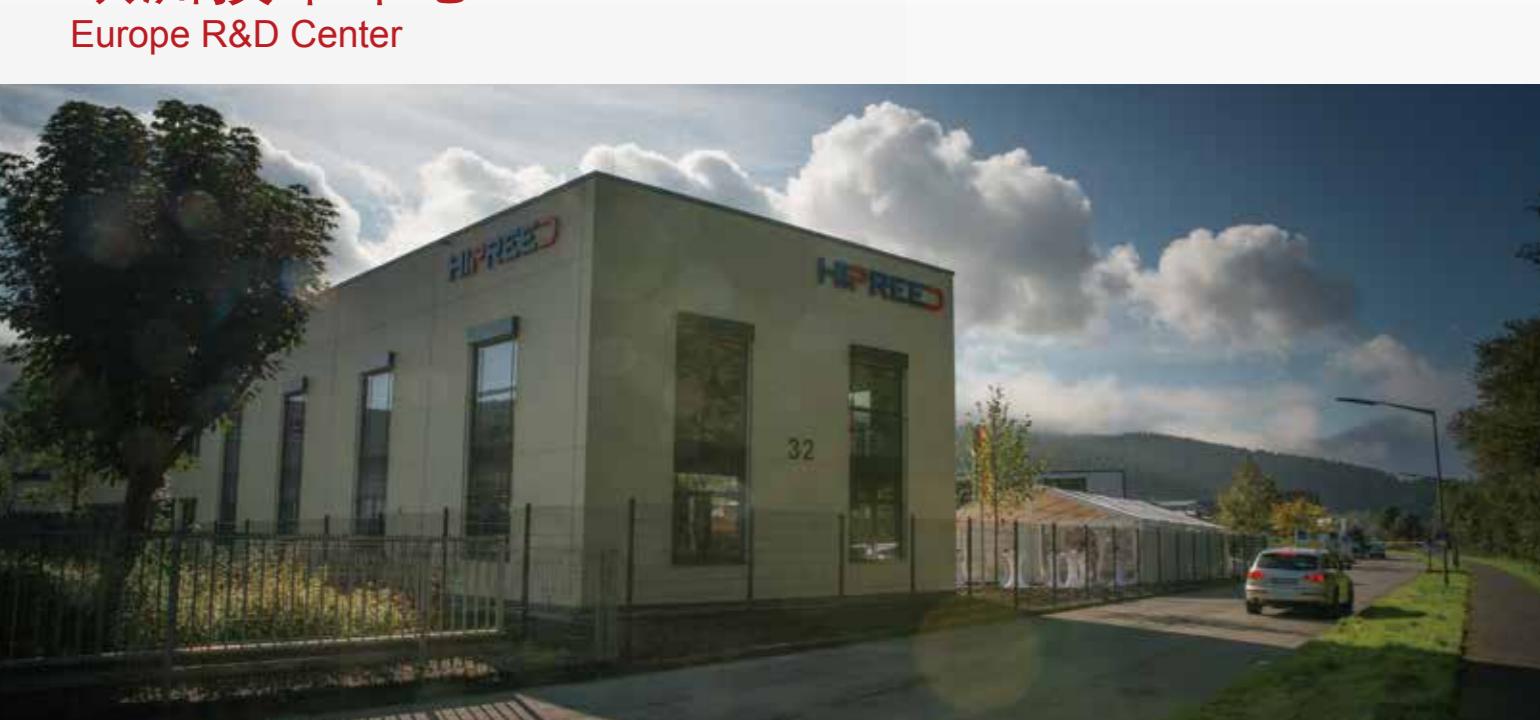
Shandong Yonghua Machinery Co., Ltd. started comprehensive strategic cooperation with ROTTLER in 2014, and established HIPREED TECHNOLOGY GmbH in Germany in 2016. Since then, YONGHUA got R&D center and high-end machine tool sales and service base in Europe to better service customers all over the world.

To promote international market expanding, focus on higher level products, Shandong Deed precision machine tool Co., Ltd. started, with main business of high-end CNC machine tool and key parts R&D, manufacture, sales and service, aimed to be more professional and international with the brand of DEED.

Holding the concept of “design in Germany, made in China”, involving in deep development of Sino-Germany strategic cooperation, DEED will provide more advanced processing machine and more efficient processing solutions to all customers with top quality products.



欧洲技术中心
Europe R&D Center



雄厚的技术力量 Strong Technical Strength

公司目前拥有一百多名国内外机床行业的研发工程师，设立机械、电气研发部，通过与国际知名关键零部件厂商的战略合作，全部产品通过三维优化设计与有限元分析后方能输入生产系统，为客户提供性能最佳的生产加工设备。

德国研发中心担负数控装备产品的研发和设计，为全球各地域特殊化使用要求提供技术保障。利用有限元法和多体动力学仿真技术对机床结构进行力学建模，为每一处结构更改、新产品设计提供了精确的分析数据，在源头上保证产品的质量。

The company currently has more than 100 mechanical and electrical engineers working at home and abroad, they keep looking for qualified suppliers for machine key parts, and make sure each part cannot be put into workshop until they pass 3d optimization design and FEA analysis. In this way, all customers can get the machine with best performance for further production or processing.

The German R&D center is responsible for the R&D and design of CNC new products series, combining the most advanced technology of machine tool industry and providing customized technical support for customers from all over the world.

All data for construction modification and new products design are precise enough taking from the mechanical modeling and finished by FEA and MBD analysis. In this way, the machine quality can be ensured at the sources.



先进的制造基础 Advanced Manufacture Equipment

公司拥有15000m²恒温无尘装配车间，采用瑞士KEL-VARIA磨削中心、德国WALDRICH重型龙门铣床、日本仓敷KURAKI铣镗床、瑞士DIXI高精密坐标镗床、进口高精密导轨磨床、进口精密卧式加工中心、进口高速激光切割机、全电脑自动钣金喷涂线等一流加工母机和成套设备，为生产高精度机床零部件及整机产品提供了可靠的保证。

15000m² dust-free constant-temperature assembling plant, KELLENBERGER grinding machining center from Switzerland , WALDRICH Portal milling machine from Germany , KURAKI Milling and Boring machine from Japan, DIXI Jig Boring machine from Switzerland, imported top-brand high precision Grinding machine, Horizontal machining center, laser cutting machine as well as full automatic sheet metal painting line , all we owned now are aimed to provide reliable quality guarantee for machine parts and whole series products.

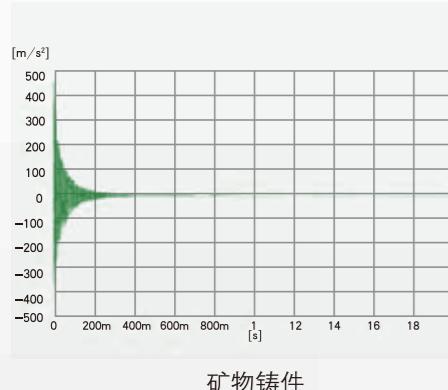


全新矿物铸件材料

New Casting Material

为确保每一台机床达到最高的精度标准、稳定性以及精度保持性，生产环节从机床底座、立柱基础部件全面采用德国新型矿物铸件技术工艺和铸造材料。

In order to make sure the highest precision, stability and precision preservation of each machine, we take in new casting material UHPC and build our own casting workshop. For the current manufacture of the company, all machine bases and columns are casted by UHPC strictly according to German casting standard.

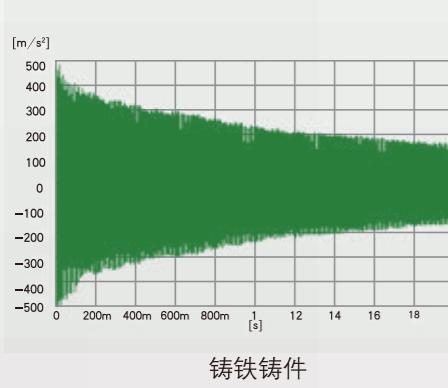


矿物铸件极强的吸振性

吸振性是铸铁的 10 倍，在大幅动态载荷下，保证了机床精度的稳定性，工件表面加工质量提高 20%。

Better Vibration Absorption

The vibration absorption of UHPC mineral casting is 10 times better than iron casting. Under large dynamic load, the stability of machine precision can be guaranteed, while the surface finish quality of the workpiece can also be improved by 20%.

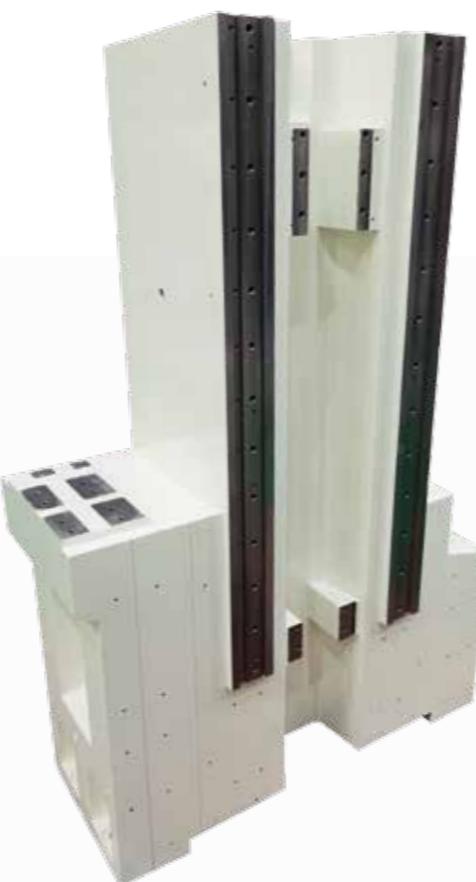


矿物铸件极佳的热稳定

热导率是铸铁的 $1/20$ ，比热容是铸铁的 2.1 倍，极佳的热稳定性和热惯性，有效的控制了机床因温度变化引起的变形，保证了机床加工精度的稳定性。

Excellent thermal stability

The thermal conductivity of UHPC mineral casting is $1/20$ of that of iron casting, the specific heat capacity is 2.1 times of that of iron casting. Excellent thermal stability and thermal inertia can effectively control any kind of machine deformation caused by temperature change, the stability of machine precision is further guaranteed.

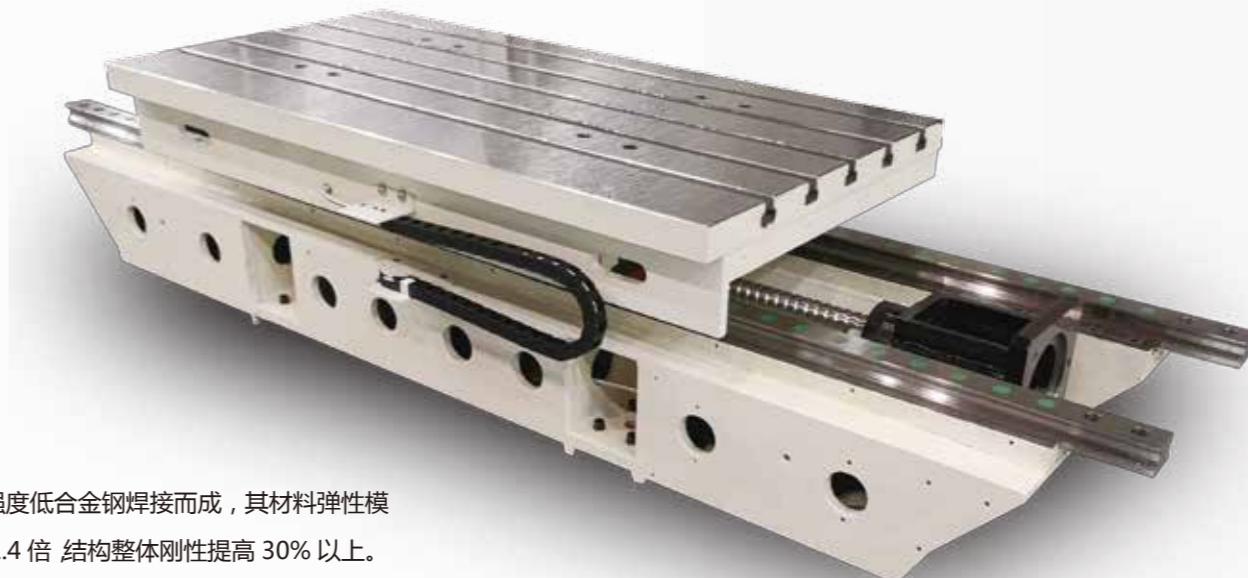


钢板焊接技术

Steel-board Welding Technology

鞍座、工作台、主轴箱引用德国钢板焊接技术工艺，具有更高的刚性。

For higher rigidity, saddles, worktables and spindle boxes of all machines we manufacture are steel board welded.



高刚性

移动部件由高强度低合金钢焊接而成，其材料弹性模量约为铸铁的 1.4 倍，结构整体刚性提高 30% 以上。

High Rigidity

The moving parts are welded by high-strength low-alloy steel, the material elasticity modulus is around 1.4 times of that of iron casting, so the overall rigidity can be improved by 30% or more.

轻量化

轻量化的结构，重量较铸铁件降低了 20%-30%，有效降低移动部件的惯量，动态响应提升 10-20%。

Lighter Weight

Compared to iron casting, the lighter-weight structure can reduce unit weight by 20%-30%, effectively reduce the inertia of moving parts and increase the dynamic response by 10-20%.



▲ 德国矿物铸件技术

UHPC mineral casting technology from Germany



▲ 德国钢板焊接技术

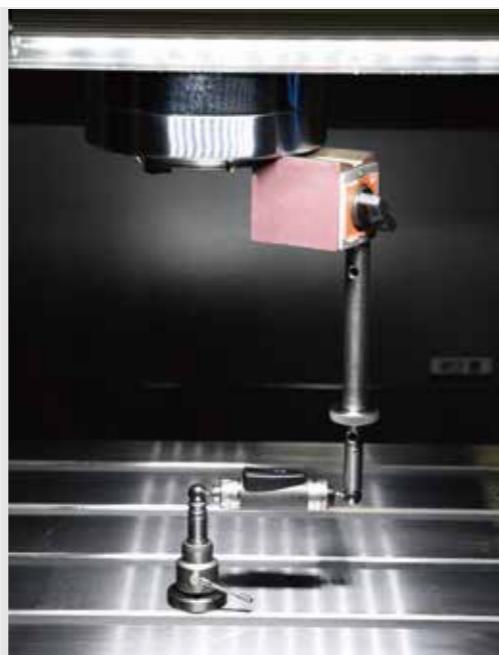
Steel board welding technology from Germany

严密的检测流程

Strict Test Process

严格的质量管理内控标准，保证整个机床设计制造过程的严密检测。45个检验检测项目，632个品质管控要点，48小时高速全行程载荷加工测试，采用德国ZEISS三坐标测量仪、英国RENISHAW激光干涉仪等顶级精密检测设备，保证机床所有细节的精准控制。

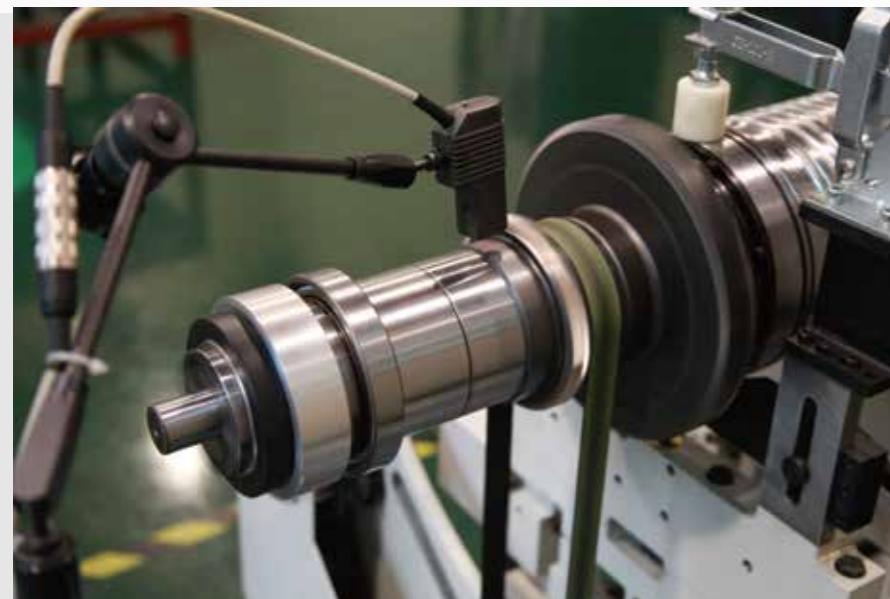
To strictly test and control the whole design and manufacture process of each machine, the company constructs intensive internal control standards. With 45 inspection and monitoring projects, 632 quality control points, 48-hour high-speed full-stroke load processing test, tested by ZEISS three-coordinate measuring instrument from Germany, RENISHAW laser interferometer from UK and other top-level precision testing equipment, all details of the machines are precisely under-control.



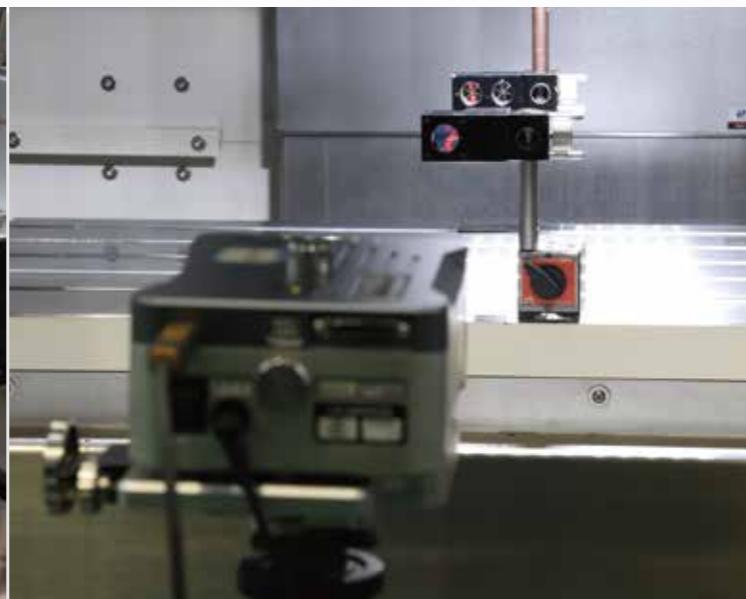
▲ 球杆仪循圆检测
Ball-bar Test



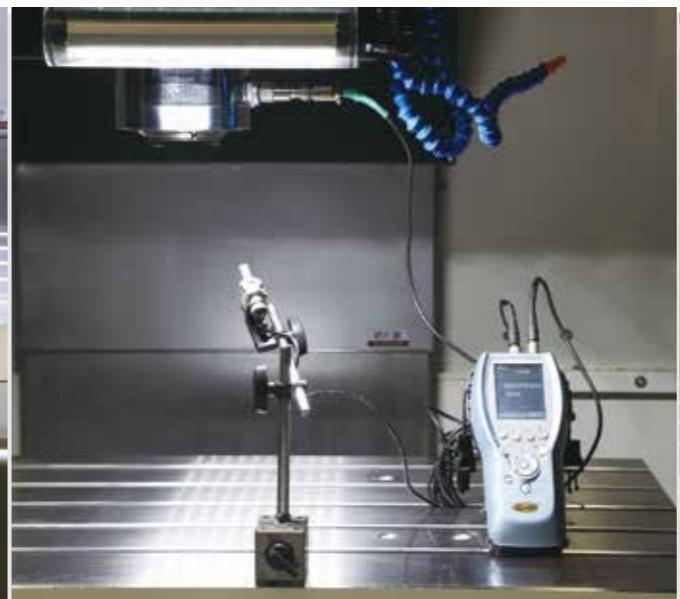
► 三坐标测量仪检测
Three-coordinate Measure



▲ 卧式动平衡
Horizontal Dynamic Balance



▲ 激光干涉仪检测
Laser Interferometer



▲ 动平衡仪
Dynamic Balance



▲ 电子水平检测
Electronic leveling

可靠的服务体系 Reliable Service System

富有经验的服务工程师，随时准备为您服务，为您提供全方位的售前售后技术服务支持，为您提供经济、高效的设备配置方案、加工工艺、夹具、刀具等系统解决方案，培训中心承担为客户提供加工中心操作、编程和日常维护保养培训的重任。为客服提供理论和实际相结合的机床培训服务。

Experienced service engineers are always ready to serve all customers, with full range of pre-sales and after-sales technical service support, the most economical and efficient configuration scheme, the most proper technical solutions with matched program, fixtures and tools. At customer demands, the training office can provide integrated training services to make sure the customers can get perfect mastery of machine operation, programming and routine maintenance.



▲ 24/7 全天候不间断服务
24/7 Non-stop Service



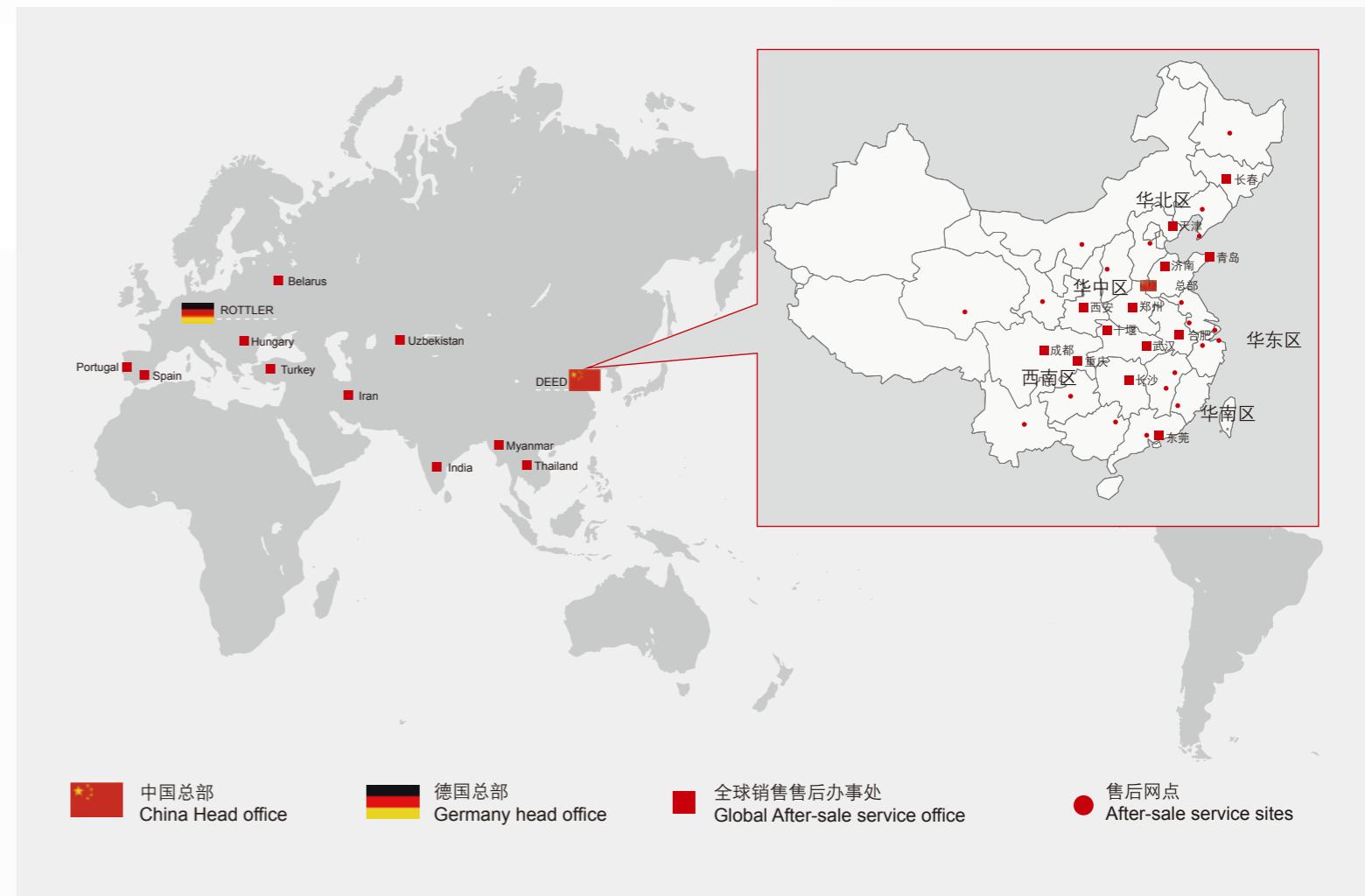
▲ 提供完善的客户培训及操作指南
On-site customer training



▲ 定期回访客户对机床维护保养
Fastest after-sale service, regular return visit



▲ 备件中心,即时供应,迅速发货
Spareparts Warehouse, Quick supply, Fast Delivery



服务体系 Service System



服务承诺 Service Guarantee

- 24/7服务热线: 400-113-6699
- 客户故障2小时响应回复
- 办事处服务范围内24小时内到场服务
- 整机提供终身维修服务
- 24/7 Service Hotline: 400-113-6699
- Troubleshooting Response within 2 hours
- Service engineer be onsite within 24 hours(within each service range)
- Lifetime maintenance service

服务理念:

以优质、高效、快捷的服务为客户创造最大的实用价值。

Service Concept:

High-quality, High-efficiency, high-satisfaction



VMC立式加工中心
Vertical Machining Center

技术规格 Technical Specifications		VMC50A	VMC50B	VMC60A	VMC60B	VMC70A	VMC70B	VMC50C	VMC60C	VMC70C	
行程 Travel	X 轴 X-axis	mm	650	850	900	1100	1200	1400	750	850	1000
	Y 轴 Y-axis	mm	500	500	600	600	700	700	500	620	700
	Z 轴 Z-axis	mm	600	600	600	600	700	700	600	600	700
	主轴鼻端至台面(直连 / 内藏) Distance from table surface to spindle gauge plane (D.D.)	mm	150~750	150~750	150~750	150~750	150~850	150~750	150~750	150~850	150~850
	主轴鼻端至台面(皮带式) Distance from table surface to spindle gauge plane (Belt)	mm	120~720	120~720	120~720	120~720	90~790	90~790	-	-	-
工作台 Worktable	尺寸 Size	mm	750×500	950×500	1000×600	1200×600	1300×700	1500×700	850×500	950×620	1100×700
	最大载重 Maximum load	kg	500	600	800	1000	1200	1200	500	600	800
配重 Counterweight	无 no										
主轴 Spindle	主轴型式 Spindle type	直连式 Direct-Drive Type			皮带式 Belt Type		内藏式 Built-in Type		直连式 Direct-Drive Type		
	主轴锥度 Spindle taper	BT40/BBT40					BT50		HSK-A63		
	主轴转速 Spindle speed	rpm	10000	12000	15000	4500	5300	20000	15000		
	主电机功率(额定 / 最大) Spindle motor power(continuous / Max.)	kW	11/15	11/18.5	9/15	15/18.5		20/24	9/15		
	主轴扭矩(额定 / 最大) Spindle torque(continuous / Max.)	N.m	52.5/95.5	70/117.8	55/115	168/260	146/220	30.7/36.8	55/115		
进给 Feed	快移速度 Rapid traverse	m/min	40/40/32(40)	40/40/40	40/40/40	32(40) / 32(40) / 24(32)		40/40/40	40/40/32		
	切削速度 Cutting speed	m/min	12/(20)				20		20		
	加速度 Acceleration	m/s ²	4(6)			3(5)		6	5		
	三轴螺杆直径 3 axes screw diameter	mm	40X16			50X16	40 × 16		50 × 16		
精度 GB Precision (20±05°C)	三轴滚柱线轨宽度 3 axes roller linear guideway width	mm	45			45	45		45		
	定位精度 positioning	mm	0.006			0.008	0.006		0.008		
	重复定位精度 Repeatability	mm	0.004			0.005	0.004		0.005		
刀库 Tool Magazine	刀库形式 Tool magazine type	圆盘 Disk									
	刀库容量 Tool magazine capacity	把	24/30					1.6			
	换刀时间(刀对刀) Tool change time(T-T)	s	1.6			3.5	1.6				
重量 Weight	kg	7000	8500		12500		7000	8500	12500		
控制系统 Control System	FANUC/SIEMENS/MITSUBISHI/HEIDENHAIN										

• 红色部分为配置 FANUC-α 电机时规格参数 (Specifications with Fanuc-amotor are marked in red).



V1160L立式加工中心
Vertical Machining Center

技术规格 Technical Specifications		V1160L	
行程 Travel	X 轴 X-axis	mm	1100
	Y 轴 Y-axis	mm	610
	Z 轴 Z-axis	mm	610
	主轴鼻端至台面 (BT40) Distance from table surface to spindle gauge plane (BT40)	mm	150~760
	尺寸 Size	mm	1200×600
工作台 Worktable	最大载重 Maximum load	kg	1000
	配重 Counterweight		无 no
主轴 Spindle	主轴型式 Spindle type		直连 / 皮带 Direct-Drive Type / Belt Type
	主轴锥度 Spindle taper		BT40
	主轴转速 spindle speed	rpm	10000/8000
	主电机功率(额定 / 最大) Spindle motor power(continuous / Max.)	kW	11/15
	主轴扭矩(额定 / 最大) Spindle torque(continuous / Max.)	N.m	52.5/95.5
进给 Feed	快移速度 Rapid traverse	m/min	36/36/24
	切削速度 Cutting speed	m/min	12
	三轴螺杆直径 3 axes screw diameter	mm	40×12
	三轴滚珠线轨宽度 T3 axes roller linear guideway width	mm	45
精度 GB Precision (20±05°C)	定位精度 positioning	mm	0.008(全长)
	重复定位精度 Repeatability	mm	0.005(全长)
	刀库形式 Tool magazine type		圆盘 Disk
刀库 Tool Magazine	刀库容量 Tool magazine capacity	把	24
	换刀时间(刀对刀) Tool change time(T-T)	s	1.6
	重量 Weight	kg	7000
控制系统 Control System		FANUC/SIEMENS/MITSUBISHI	

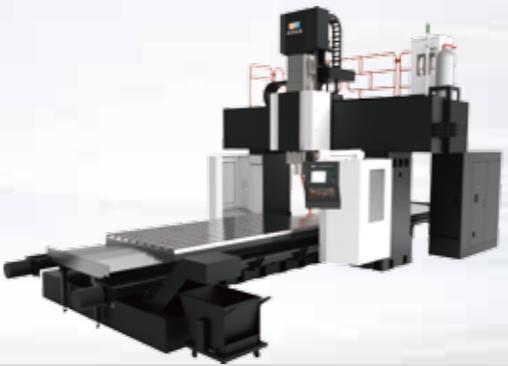
GMC龙门加工中心 Gantry Machining Center



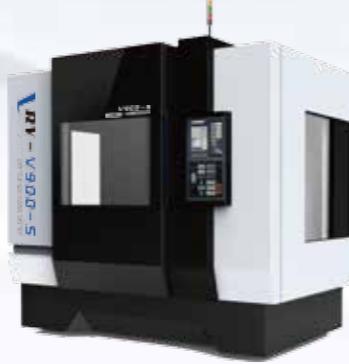
技术规格 Technical Specifications

		GMC16L	GMC20L	GMC24L
行程 Travel	门宽 distance between columns	mm 1600	mm 2000	mm 2400
	X 轴 X -axis	mm 2000/2500/3000/3500/4000	mm 2000/2500/3000/3500/4000	mm 3000/3500/4000/4500
	Y 轴(加工行程) Y -axis(processing space)	mm 1600	mm 2000	mm 2400
	Z 轴 Z -axis	mm 850	mm 850	mm 850
	主轴鼻端至工作台距离 Distance from table surface to spindle gauge plane	mm 200–1050	mm 255–1105	mm 200–1050
工作台 Worktable	工作台宽度 Worktable Width	mm 1250	mm 1600	mm 1800
	T 型槽 T - slot	mm 22	mm 22	mm 22
	承重 Load Capacity	t 5/6/8/9/10	t 7/9/11/13/14	t 13/14/16/18
主轴 Spindle	驱动形式 Driving Form	直连式+减速箱 Direct Drive + Gear Reducer	电主轴 Motorized Spindle	直连式+减速箱 Direct Drive + Gear Reducer
	主轴锥孔规格 Spindle Taper	BT50	HSK63	BT50
	主轴转速 Spindle speed	rpm 8000	rpm 12000	rpm 8000
	功率 Power	kW 22/26	kW 25/44	kW 22/26
	扭矩 Torque	N.m 560/661	N.m 87/150	N.m 560/661
进给速度 Feed	主轴箱截面 spindle box section	mm 400 × 400	mm 400 × 400	mm 400 × 400
	X/Y/Z 轴快移速度 Rapid traverse X/Y/Z	m/min 16/20/20	m/min 16/20/20	m/min 16/16/16
	切削速度 Cutting speed	m/min 12	m/min 12	m/min 12
精度 GB Precision	定位精度 X positioning X	mm 0.014/0.016/0.018/0.02/0.021	mm 0.014/0.016/0.018/0.02/0.021	mm 0.018/0.02/0.021/0.023
	定位精度 Y positioning Y	mm 0.014	mm 0.014	mm 0.016
	定位精度 Z positioning Z	mm 0.011	mm 0.011	mm 0.011
(20 ± 0.5°C)	重复定位精度 X Repeatability X	mm 0.009/0.011/0.011/0.013/0.014	mm 0.009/0.011/0.011/0.013/0.014	mm 0.011/0.013/0.014/0.015
	重复定位精度 Y Repeatability Y	mm 0.009	mm 0.009	mm 0.01
	重复定位精度 Z Repeatability Z	mm 0.006	mm 0.006	mm 0.006
其它 other	电源容量 Power capacity	kVA 60	kVA 60	kVA 60
	气源压力 Air Source	kgf/cm ² 6.5	kgf/cm ² 6.5	kgf/cm ² 6.5
	机床高度(约) Height (rough)	mm 5100	mm 5100	mm 5100
	占地面积(约) Floor area (rough)	mm 7520/7850/9000/10250/11250 × 4955	mm 7520/7850/9000/10250/11250 × 5400	mm 9000/10250/11250/12250 × 5800
	机床净重(约) Net weight (rough)	t 24/26/27.5/29.5/35	t 25/27/28/31/36	t 32/35/38.5/42

GL龙门加工中心 Gantry Machining Center



技术规格 Technical Specifications		G24L	G28L	G32L	G37L
行程 Travel	门宽 Distance between columns	mm 2400	mm 2800	mm 3200	mm 3700
	X 轴 X -axis	mm 3000/3500/4000/4500	mm 4000/4500	mm 5500/6500	mm 6500/8500/10500
	Y 轴(加工行程) Y -axis(processing space)	mm 3000	mm 3400	mm 3800	mm 4200
	Z 轴 Z -axis	mm 850 (1050)	mm 1050 (1250)	mm 1050 (1250)	mm 1050 (1250)
	主轴鼻端至工作台距离 Distance from table surface to spindle gauge plane	mm 200–1050 (200–1250)	mm 200–1250 (200–1450)	mm 200–1250 (200–1450)	mm 200–1250 (200–1450)
工作台 Worktable	工作台宽度 Worktable Width	mm 1800	mm 2200	mm 2600	mm 3000
	T 型槽 T - slot	mm 22	mm 22	mm 22	mm 28
	承重 Load Capacity	t 15/16/18/20	t 20/22	t 28/32	t 32/36/40
主轴 Spindle	驱动形式 Driving Form	直连式+减速箱 Direct Drive + Gear Reducer			
	主轴锥孔规格 Spindle Taper	BT50	BT50	BT50	BT50
	主轴转速 Spindle speed	rpm 8000	rpm 6000	rpm 6000	rpm 6000
	功率 Power	kW 22/26	kW 22/26	kW 22/26	kW 22/26
	扭矩 Torque	N.m 560/661	N.m 770/910	N.m 770/910	N.m 770/910
进给速度 Feed	主轴箱截面 spindle box section	mm 400 × 400	mm 450 × 450	mm 450 × 450	mm 450 × 450
	X/Y/Z 轴快移速度 Rapid traverse X/Y/Z	m/min 16/16/16	m/min 12/12/12	m/min 12/12/12	m/min 12/12/12
	切削速度 Cutting speed	m/min 8	m/min 8	m/min 8	m/min 6
	定位精度 X positioning X	mm 0.024/0.027/0.028/0.031	mm 0.028/0.031	mm 0.035/0.039	mm 0.039/0.047/0.055
精度 GB Precision	定位精度 Y positioning Y	mm 0.024	mm 0.026	mm 0.028	mm 0.029
	定位精度 Z positioning Z	mm 0.02	mm 0.02	mm 0.02	mm 0.02
	重复定位精度 X Repeatability X	mm 0.016/0.017/0.018/0.02	mm 0.018/0.02	mm 0.022/0.024	mm 0.024/0.029/0.034
(20 ± 0.5°C)	重复定位精度 Y Repeatability Y	mm 0.016	mm 0.017	mm 0.018	mm 0.019
	重复定位精度 Z Repeatability Z	mm 0.008	mm 0.008	mm 0.008	mm 0.008
	电源容量 Power capacity	kVA 50	kVA 50	kVA 50	kVA 50
其它 other	气源压力 Air Source	kgf/cm ² 6.5	kgf/cm ² 6.5	kgf/cm ² 6.5	kgf/cm ² 6.5
	机床高度(约) Height (rough)	mm 5000	mm 5900	mm 5900	mm 6100
	占地面积(约) Floor area (rough)	mm 9800/10800/11800/12800 × 5800	mm 11800/12800 × 6600	mm 14800/16800 × 7000	mm 16800/20800/24800 × 7500
	机床净重(约) Net weight (rough)	t 30/33/36.5/40	t 45/47	t 63/67	t 86/102/118



RY 立式加工中心
Vertical Machining Center



RY 桥式五轴加工中心
Bridge type 5-axis portal milling machining center

技术规格 Technical Specifications		V650/3	V850/3	V900/3	V1100/3	V1300/3	V1500/3	V650/5	V900/5	V1300/5				
行程 Travel	X 轴 X-axis	mm	650	850	900	1100	1300	1500	650	900	1300			
	Y 轴 Y-axis	mm	450	450	550	550	750	750	450	550	750			
	Z 轴 Z-axis	mm	520	520	600	600	700	700	520	600	700			
	主轴鼻端至工作台距离 Distance from table surface to spindle gauge plane	mm	150~670	150~670	150~750	150~750	150~850	150~850	150~670	150~750	150~850			
工作台 Worktable	尺寸 Size	mm	450×650	450×850	550×900	550×1100	750×1300	750×1500	-	-	-			
	最大载重 Maximum load	kg	800	900	1100	1300	1600	1900	-	-	-			
	C 轴台面尺寸 C-axis table size	mm	-				500	600	800					
转台 Rotary Table	最大载重 Maximum load	kg	-				800	1000	1400					
	C 轴转速 C-axis speed	r/min	-				80							
	C 轴转动范围 C-axis Rotary Range	°	-				360							
	A 轴转速 A-axis speed	r/min	-				25							
	A 轴回转范围 A-axis Rotary Range	°	-				-15~+120							
主轴 Spindle	主轴型式 Spindle type		电主轴 Motorized Spindle											
	主轴转速 Spindle speed	r/min	15000				18000							
	主电机功率 Spindle motor power	kW	26.4				38							
	主轴扭矩 Spindle torque	Nm	84				103.7							
进给 Feed	快移速度 Rapid traverse	m/min	40											
	进给力 Feed Rate	kN	6.5											
精度 ISO Precision (20±05°C)	定位精度 positioning	mm	0.005											
	重复定位精度 Repeatability	mm	0.003											
刀库 Tool Magazine	刀库形式 Tool magazine type		链式											
	刀库容量 Tool magazine capacity	把	30/60											

工作台 Worktable		铣头参数 Milling head	
工作台尺寸(宽 * 长) Table size (W*L)	3500mm × 9000mm	B 轴摆头 B-axis swing head	
两立柱距离 Width between columns	5000mm	电主轴电机功率 Motorized spindle motor power	56kW
T 型槽宽 T-slot width	36mm	电主轴最高转速 Motorized spindle Max.speed	12000r/min
T 型槽间距 T-slot interval	250 mm	电主轴最大输出扭矩 Motorized spindle Max.Torque	89Nm
工作台最大承载 Load Capacity	5000kg/m ²	B 轴转速 B-axis rotate speed	6r/min
横梁移动(X 轴) Beam moving (X-axis)		B 轴转角 B-axis rotate angle	-110° / +5°
纵向行程 longitudinal Travel	8500 mm	锥孔形式 Taper type	HSK-A63
进给速度 Feed rate	10~20000mm/min	立铣头 Vertical milling head	
快速移动速度 Rapid Traverse	28000mm/min	功率 Power	60KW
横向滑板移动参数(Y 轴) Cross movement of saddle (Y-axis)		最高转速 Max.rotate speed	6000r/min
横向行程 Cross Travel	4000mm	最大扭矩 Max.torque	1830Nm
进给速度 Feed rate	10~20000mm/min	锥孔形式 Taper type	HSK-A100
快速移动速度 Rapid Traverse	28000mm/min	直角铣头 Right-angle milling head	
主轴箱参数(Z 轴) Spindle box(Z-axis)		功率 Power	60KW
垂直行程 Vertical travel	1500mm	最高转速 Max.rotation	4000r/min
进给速度 Feed rate	10~15000mm/min	最大扭矩 Max.torque	1830Nm
快速移动速度 Rapid Traverse	20000mm/min	锥孔形式 Taper type	HSK-A100
主轴箱截面尺寸 Spindle box section	600mm × 600mm	刀库 Tool Magazine	
C 轴转速 C-axis Rotary Speed	12r/min	刀库容量 Tool capacity	60T 把
C 轴转角 C-axis Rotary Angle	± 185°	刀柄形式 Taper type	HSK-A100 20T 把 / HSK-A63 40T 把