

GUIBEI MACHINE

BASED IN CHINA
REACHING ACROSS ASIA
TOWARDS THE WORLD

Best selling brands in 59 years
59 years of technological innovation
59 years of quality and dedication
59 years of service reputation

接受个性化定制 最大满足用户需求
ACCEPT PERSONALIZED CUSTOMIZATION
TO MEET MAXIMUM USER NEEDS

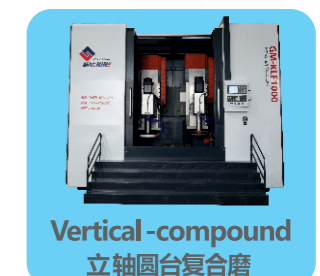
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产品手册 PRODUCT CATALOGUE





Introduction of Company

Guilin Guibei Machine Co., Ltd. (formerly known as Guibei grinding machine factory) was founded in 1966 and located in Guilin, Guangxi province, in which the city is famous of the world for its unique landscape. The company is one of the National high-tech enterprises, specialized in the development and production of medium , high-level, precision surface grinding machine, gantry type surface (guide way) grinding machine, CNC linear rolling guide-way profile grinding machine, horizontal (vertical) wheel head rectangular table column mobile floor-type surface grinding machine and gantry type milling machine .

Over the past 59 years, the company has been actively involved in the development of China's machine tool industry and continuously technical transformation. We have excellent equipment such as horizontal machining center, large gantry type planer (milling) machine, CNC gantry type guide way grinding machine. As well as UK Renishaw laser interferometer, Sweden Hexcon CMM, Japan Sanfeng surface profile roughness meter and other testing equipment. The company has forged a high-end brand of specialized new grinding machines with hard strength to promote high-quality development. We will do our best to meet the needs of the market. The company's products have 12 categories and more than 200 specifications, Extensive services cover traditional machinery and automobile industries; Electric equipment, railway locomotives, ships, national defense industry; Aerospace industry, engineering machinery, electronic information technology industry, and mold and measuring tool processing industry. The company's products are sold in the domestic market, accounting for 30% of the market, and have the qualification of self-operated export. Some models of products are exported to 41 countries and regions such as Germany, Canada, Italy, Russia, the United States, Japan, Brazil, Bangladesh, the Middle East and Southeast Asia. "Guibei surface grinding machine" is a famous brand in Guangxi province and well-known at home and abroad honored "Users all over the world, product sold millions".

The company is the director unit of China Machine Tool Association, the member unit of grinder branch of National metal cutting machine tool Standardization Committee, and the Technological innovation demonstration enterprise in Guangxi. We have Guangxi enterprise technology center, Guangxi precision grinding engineering technology research center and other R & D platforms. And passed the international quality management system certification and National safety index certification. The saddle mobile CNC surface grinding machine and the fixed beam type CNC gantry grinding machine are listed in the National Torch project. The products have won the National green manufacturing science and technology progress award, Guangxi science and technology progress award, Guangxi outstanding new product achievement award, etc. The company is a National Key "Little Giant" Enterprise under the Specialized, Sophisticated, Distinctive, and Innovative (SSDI) program, a Guangxi Gazelle Enterprise, and a Guangxi Single-item Champion Demonstration Enterprise.

Quality Assurance



Qualification certificate



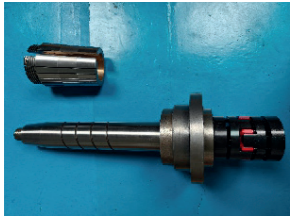
Certificate of honor



Patent certificate



★ Spindle



- Simple structure, convenient manufacturing, processing, and disassembly; High carrying capacity; Good impact resistance and vibration absorption performance.

★ Column



- Precision scraping of vertical rectangular sliding guide rail.

★ Dressing



- Automatic dressing of collision cylinder positioning grinding wheel.



• Grinding workpiece

- Head-mobile structure, High machining accuracy and cost effective

GUIBEI MACHINE

High cost effectiveness-High accuracy-Easy operation
Surface grinding machine with PLC system

- **Min. vertical feed: 5 μm**
- **Equal thickness of the workpiece 0.008/300mm**
- **Surface roughness of the workpiece Ra0.63**



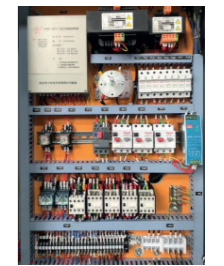
- Can be equipped with fully enclosed safety hood

★ Simple and clear operation panel



- Exquisite buttons, resistant to aging Easy to learn and operate

★ Simple and clear arrangement of electrical components



- Safe and standardized circuit design, functional modules and electrical network components are neatly and orderly installed in independent electrical boxes, ensuring electrical safety and facilitating inspection and maintenance.



- 5" touch screen; Multiple conversational operation interface Input processing parameters to achieve automatic precision machining Easy to learn and operate

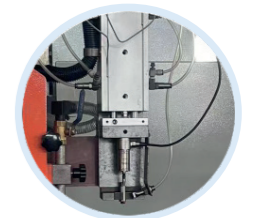
- External proportional valve oil station

- The longitudinal guide rail of the worktable and the vertical guide rail of the grinding head are turcite-B, which has good wear resistance and high feed sensitivity.

MB7163×12/2CK

- High rigidity, wide width and stable casting structure; Stable and long-lasting machining accuracy of machine tools

★ Automatic detection devices



- Automatic detection devices can be added according to user needs.



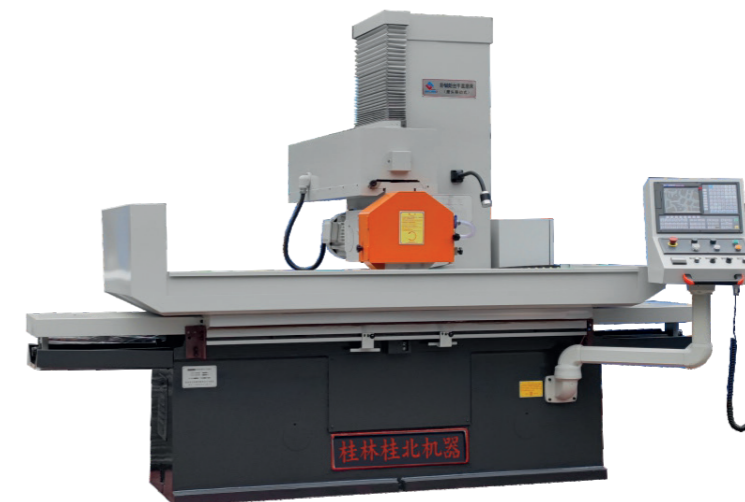
GUIBEI MACHINE



M7130Y



M7163x12

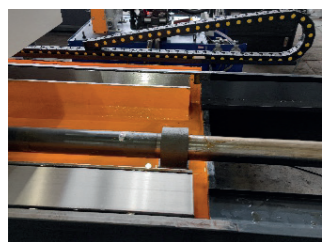


MKB7163x12/2

主要技术参数 Main Specifications	单位 unit	M7130Y	M7132	M7132x16	M7132x20	M7140Y	M7150Y	M7160Y
工作台面尺寸 (宽×长) Size of working table (W×L)	mm	300×1000	320×1000	320×1600	320×2000	400×1000		
最大磨削尺寸 (宽×长×高) Max.size of workpiece to be ground (W×L×H)	mm	300×1000×400	320×1000×400	320×1600×400	320×2000×400	400×1000×400	500×1000×600	600×1000×600
工作台纵向移动量(液动) Table longitudinal travel (Hydraulic)	mm	200 ~ 1100		200 ~ 1700	200 ~ 2100	200 ~ 1100		
工作台负载量 (含电磁吸盘) Max.Allowable weight of workpiece (Including eletromagnetic chuck)	kg	500		800	998	624	800	
砂轮尺寸 (外径×宽度×内径) Wheel size (O.D×W×I.D)	mm	Φ400×50×Φ203						
电气设备总容量 Electrical equipment total capacity	kVA	14						
磨头电机功率 Grinding wheel motor 转速 Rotational speed	kW r/min	7.5 1440						
加工工件等厚度 Equal thickness of the workpiece	mm	300:0.005						300:0.008
工件表面粗糙度 Surface roughness of the workpiece	μm	Ra0.63						
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)	mm	3000×1712×2250		4360×1712×2250		3000×1782×2250	3000×1975×2450	
包装箱外形尺寸 (长×宽×高) Packing dimensions (L×W×H)	cm	299×175×260		470×175×260	532×175×260	299×175×260	299×187×280	
净重 N.W	kg	约 3200	约 3300	约 4500	约 5000	约 3750	约 4300	约 4400

主要技术参数 Main Specifications	单位 unit	M7150x12	M7150x16W	M7150x20W	M7163x12	M7163x16W	M7163x20W
工作台面尺寸 (宽×长) Size of working table (W×L)	mm	500×1250	500×1600	500×2000	630×1250	630×1600	630×2000
最大磨削尺寸 (宽×长×高) Max.size of workpiece to be ground (W×L×H)	mm	500×1250×600	500×1600×600	500×2000×600	630×1250×600	630×1600×600	630×2000×600
工作台纵向移动量(液动) Table longitudinal travel (Hydraulic)	mm	200 ~ 1350	200 ~ 1700	200 ~ 2100	200 ~ 1350	200 ~ 1700	200 ~ 2100
工作台负载量 (含电磁吸盘) Max.Allowable weight of workpiece (Including eletromagnetic chuck)	kg	805	1200	1480	980	1500	1850
砂轮尺寸 (外径×宽度×内径) Wheel size (O.D×W×I.D)	mm	Φ400×50×Φ203					
电气设备总容量 Electrical equipment total capacity	kVA	16	18	21	16	18	21
磨头电动机功率 Grinding wheel motor 转速 rotational speed	kW r/min	9 1440					
加工工件等厚度 Equal thickness of the workpiece	kVA	300:0.008					
工件表面粗糙度 Surface roughness of the workpiece	μm	Ra0.63					
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)	mm	3540×2073×2450	4190×2073×2450	5600×2073×2450	3450×2173×2450	5200×2173×2450	5600×2173×2450
包装箱外形尺寸 (长×宽×高) Packing dimensions (L×W×H)	cm	383×218×280	442×218×280	457×218×280	420×228×280	457×228×280	
净重 N.W	kg	约 5200	约 5900	约 6500	约 5400	约 6100	约 7000

★ Detail



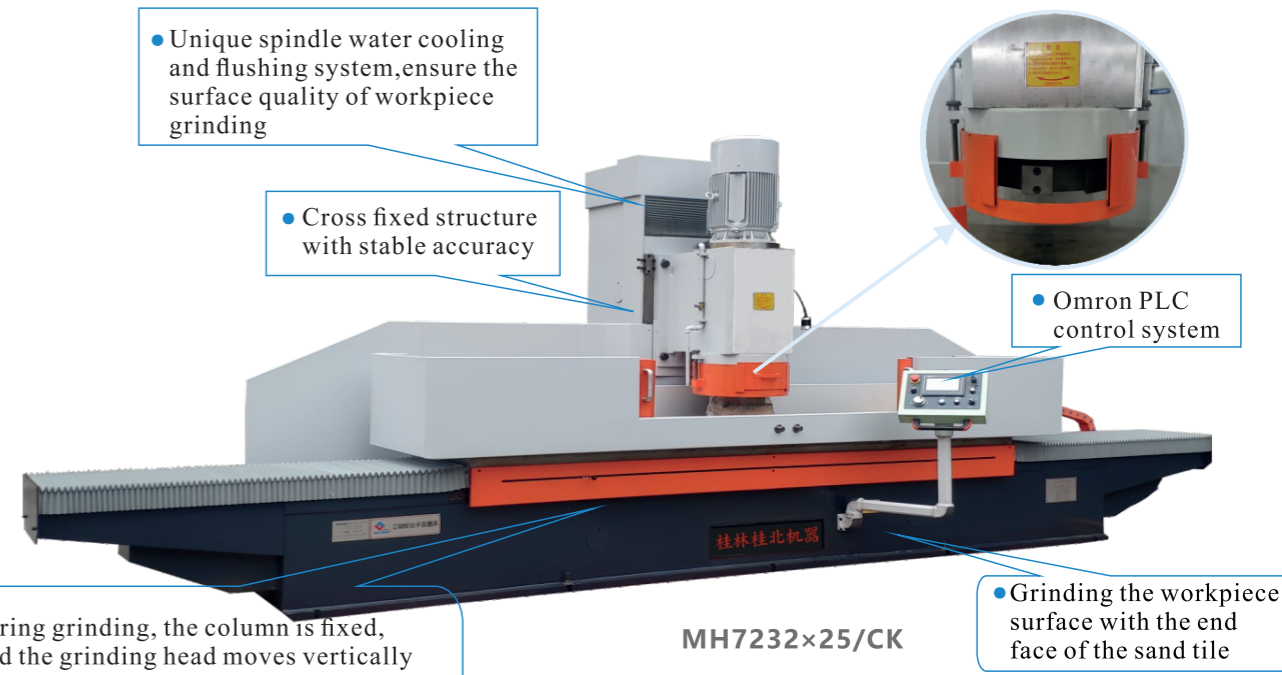
• Bed guide rail



M7180×20B

GUIBEI MACHINE

PLC vertical grinding machines with vertical grinding wheel spindle and reciprocating table



MH7232×25/CK

主要技术参数 Main Specifications	单位 unit	M7180×12A M7180×12B M7180×12C	M7180×16A M7180×16B M7180×16C	M7180×20A M7180×20B M7180×20C	M7180×25A M7180×25B M7180×25C	M7180×30A M7180×30B M7180×30C
工作台面尺寸 (宽×长) Size of working table (W×L)	mm	800×1250	800×1600	800×2000	800×2500	800×3000
最大磨削尺寸 (宽×长×高) Max.size of workpiece to be ground (W×L×H)	mm	800×1250×600	800×1600×600	800×2000×600	800×2500×600	800×3000×600
纵向移动行程 Longitudinal travel	mm	300~1350	300~1700	300~2100	300~2600	300~3100
工作台最大承重量 Table Max.table load capacity	kg	1600	2000	2472	3000	3700
主轴中心线到台面的距离 Distance spindle center to table	mm	225~825				
横向移动行程 Lateral movement stroke	mm	820				
垂直行程 Vertical travel	mm	600				
砂轮尺寸 (外径×宽度×内径) Wheel size (O.D×W×I.D)	mm	Φ450×63×Φ203				
砂轮转速 Wheel speed	r/min	1460				
垂直最小进给量 The minimum vertical feed	mm	0.005				
磨头电机功率 Grinding motor power	kW	15				
电机总功率 Total motor power	kW	约 28				
加工工件等厚度 Equal thickness of the workpiece	mm	300:0.008				
工件表面粗糙度 Surface roughness of the workpiece	μm	Ra0.63				
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)	mm	3540×2350×2630	6620×3600×2630	7560×3600×2630	9000×3600×2630	
机床净重 N.W	Kg	约 9800	约 10100	约 10650	约 12500	约 13100

主要技术参数 Main Specification	单位 Unit	MH7232×25/CK	MH7232×40/CK	MH7232×50/CK
工作台面尺寸 (宽×长) Size of working table surface (W×L)	mm	320×2500	320×4000	320×5000
最大磨削尺寸 (宽×长×高) Max.size of workpiece to be ground (W×L×H)	mm	320×2500×400	320×4000×400	320×5000×400
工作台纵向最大行程 Max.longitudinal movement of table	mm	3000	4500	5500
工作台纵向移动速度 (液压无级调速) Table longitudinal moving speed (Hydraulic and stepless variable speed)	m/min	5~15		
砂瓦卡盘下端面与工作台面的距离 The distance between the lower end of the sand tiles chuck and the worktable surface	mm	410		
最大 Maximum / 最小 Minimum		5		
工作台最大承重量 (含电磁吸盘) Max.allowable weight of workpiece(Including eletromagnetic chuck)	kg	1240	2000	2500
磨头电机功率 Power of grinding head motor	kW	22		
磨头主轴转速 The spindle speed of grinding wheel motor	r/min	1440		
砂瓦尺寸 Size of sand tile	mm	150×85 (100) ×35		
砂瓦数量 Number of sand tiles	mm pc.	4 or 8		
加工工件等厚度 Equal thickness of the workpiece	mm	0.005/300		
工件表面粗糙度 Surface roughness of workpiece	μm	Ra1.6		
垂直移动距离 Vertical movement distance	mm	400		
快速升降速度 Fast lifting speed	mm/min	400		
最小进给量 The minimum feed	mm	0.005		
电机总容量 Total motor capacity	kW	34		
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)	mm	8000×2500×3100	11000×2500×3100	14000×2500×3100
机床重量 (约) Weight of machine (about)	kg	9500	13000	15000

★ Spindle



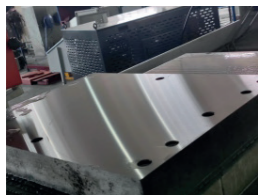
- The front end of the grinding head spindle adopts bearing bush structure.

★ Vertical- harden guide rails



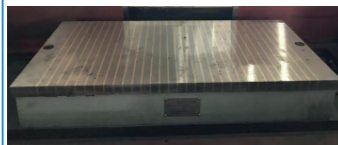
- Precision scraping of vertical rectangular sliding guide rail.

★ Workpieces



- Display of completed grinding of workpieces, good surface grinding quality

★ Electromagnetic chuck



- Copper core magnet chuck



- Grinding workpiece

GUIBEI MACHINE

High cost effectiveness-High accuracy-Easy operation

Surface grinding machine with PLC system

- Min. vertical feed: 5 μm
- Equal thickness of the workpiece 0.005/300mm
- Surface roughness of the workpiece Ra0.63

- Column-mobile structure, High machining accuracy and cost effective

- The longitudinal guide rail of the worktable and the vertical guide rail of the grinding head are turcite-B, which has good wear resistance and high feed sensitivity.



- Can be equipped with half enclosed safety hood

- 5" touch screen; Multiple conversational operation interface Input processing parameters to achieve automatic precision machining Easy to learn and operate

- External proportional valve oil station



M7180×20/LCK

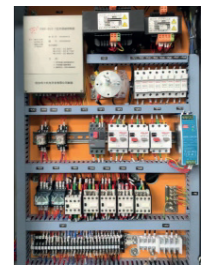
- High rigidity, wide width and stable casting structure; Stable and long-lasting machining accuracy of machine tools

★ Simple and clear operation panel



- Exquisite buttons, resistant to aging Easy to learn and operate

★ Simple and clear arrangement of electrical components



- Safe and standardized circuit design, functional modules and electrical network components are neatly and orderly installed in independent electrical boxes, ensuring electrical safety and facilitating inspection and maintenance.

★ Oil station



- The longitudinal movement of the working table is hydraulic transmission, the proportional control valve is stepless speed regulation, and the operation is stable.

GUIBEI MACHINE



MK7163×12/L



M7180×16/LCK

主要技术参数 Main Specifications	单位 unit	M7163×12/L M7163×12/LCK	M7163×16/L M7163×16/LCK	M7163×20/L M7163×20/LCK	M7163×30/L M7163×30/LCK	M7163×40/L M7163×40/LCK	M7163×50/L M7163×50/LCK
工作台面尺寸 (宽×长) Size of working table (W×L)	mm	630×1250	630×1600	630×2000	630×3000	630×4000	630×5000
最大磨削工件尺寸 (宽×长×高) Max.size of workpiece to be ground (W×L×H)	mm	630×1250×400	630×1600×400	630×2000×400	630×3000×400	630×4000×400	630×5000×400
纵向移动行程 Longitudinal travel	mm	300~1350	300~1700	300~2100	300~3100	300~4100	300~5100
工作台最大承重量 Table Max.table load capacity	kg	1015	1500	1850	2448	3264	4080
主轴中心线到台面的距离 Distance spindle centre to table	mm	200~625					
横向移动行程 Lateral movement stroke	mm	650					
砂轮尺寸 (外径×宽度×内径) Wheel size (O.D×W×I.D)	mm	Φ450×50×Φ203					
砂轮转速 Wheel speed	r/min	1460					
磨头电机功率 Grinding motor power	kW	11					
电机总功率 Total motor power	kW	25			30		
加工工件等厚度 Equal thickness of the workpiece	mm	300:0.005					
工件表面粗糙度 Surface roughness of the workpiece	μm	Ra0.63					
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)	mm	3600×3200×2200	4900×3200×2200	5900×3200×2200	8900×3200×2200	11000×3200×2200	13100×3200×2200
机床净重 N.W	Kg	约 5100	约 6000	约 7000	约 11500	约 13500	约 16500

主要技术参数 Main Specifications	单位 unit	M7180×12/L M7180×12/LCK	M7180×16/L M7180×16/LCK	M7180×20/L M7180×20/LCK	M7180×30/L M7180×30/LCK	M7180×40/L M7180×40/LCK	M7180×50/L M7180×50/LCK
工作台面尺寸 (宽×长) Size of working table (W×L)	mm	800×1250	800×1600	800×2000	800×3000	800×4000	800×5000
最大磨削工件尺寸 (宽×长×高) Max.size of workpiece to be ground (W×L×H)	mm	800×1250×600	800×1600×600	800×2000×600	800×3000×600	800×4000×600	800×5000×600
纵向移动行程 Longitudinal travel	mm	300~1350	300~1700	300~2100	300~3100	300~4100	300~5100
纵向移动速度 (无级调速) Longitudinal moving speed(Stepless)	m/min	5~25					
工作台最大承重量 Table Max.table load capacity	kg	1600	2000	2472	3700	4900	5544
主轴中心线到台面的距离 Distance spindle centre to table	mm	250~850					
横向移动行程 Lateral movement stroke	mm	830					
砂轮尺寸 (外径×宽度×内径) Wheel size (O.D×W×I.D)	mm	Φ500×75×Φ203					
砂轮转速 Wheel speed	r/min	960					
磨头电机功率 Grinding motor power	kW	22					
电机总功率 Total motor power	kW	约 40			约 50		
加工工件等厚度 Equal thickness of the workpiece	mm	300:0.005					
工件表面粗糙度 Surface roughness of the workpiece	μm	Ra0.63					
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)	mm	5400×3450×2540		6250×3450×2540	9250×3450×2540	11250×3450×2540	14500×3450×2540
机床净重 N.W	Kg	约 9800	约 10100	约 10650	约 13100	约 17200	约 22000

★ Spindle



- The front end of the grinding head spindle adopts bearing bush structure.

★ Vertical- harden guide rails

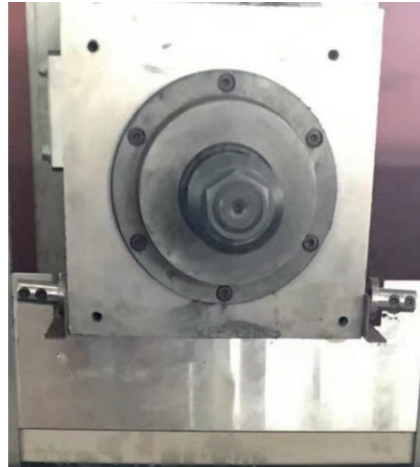


- Precision scraping of vertical rectangular sliding guide rail.

★ Sliding guide rails



- One flat and one V-shaped guide rail structure.



• Grinding head

GUIBEI MACHINE

High cost effectiveness-High accuracy-Easy operation

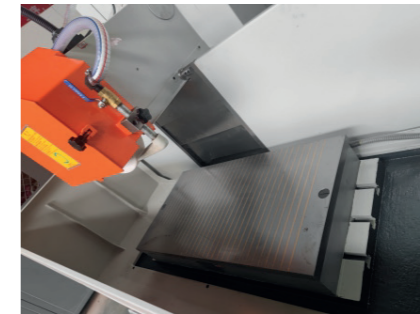
Surface grinding machine with PLC system

- Min. vertical feed: 5 μ m
- Equal thickness of the workpiece 0.005/300mm
- Surface roughness of the workpiece Ra0.63

★ Simple and clear operation panel

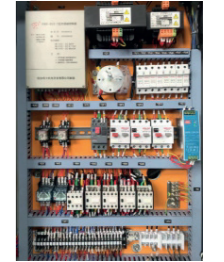


- Exquisite buttons, resistant to aging
Easy to learn and operate

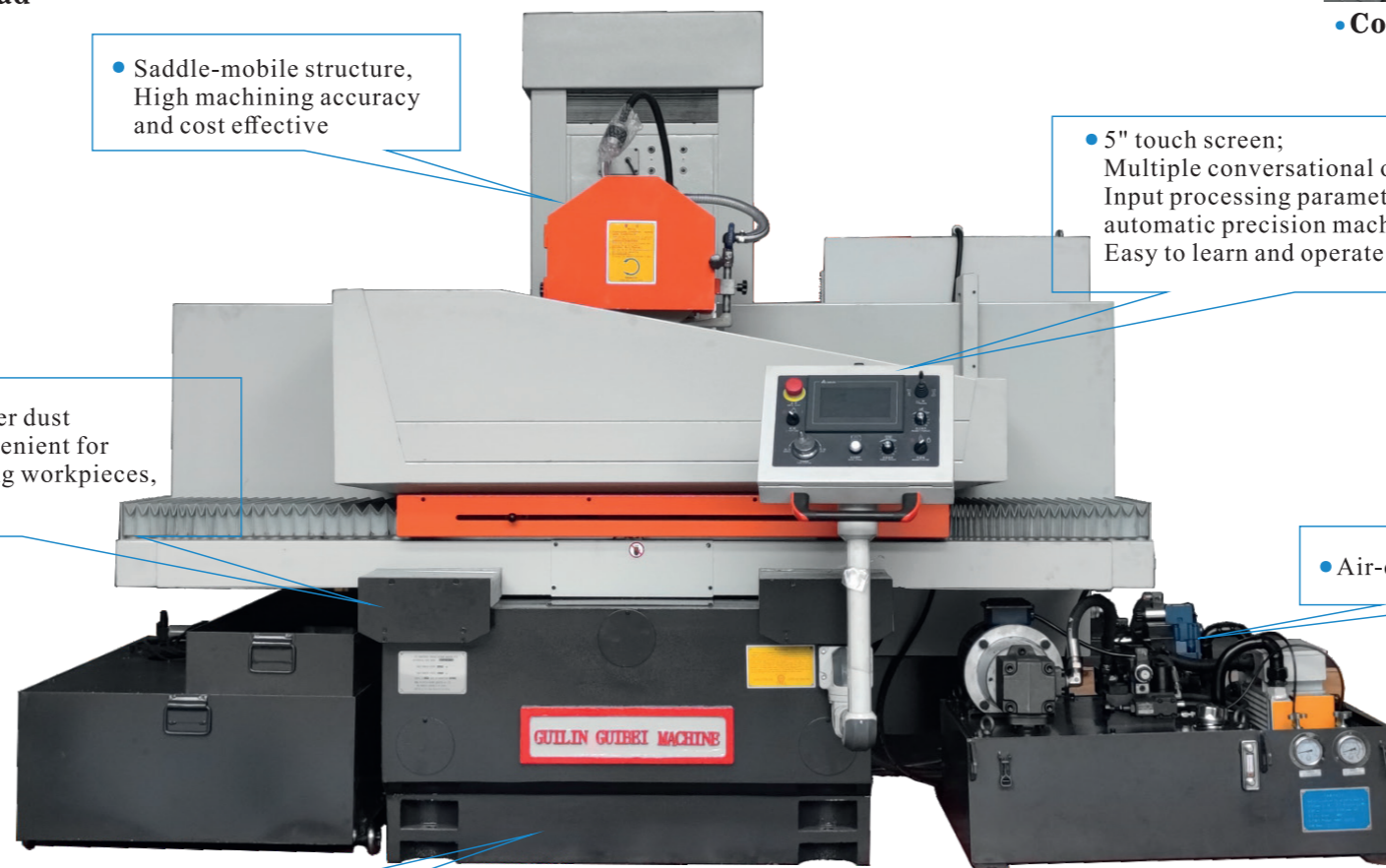


• Copper core magnet chuck

★ Simple and clear arrangement of electrical components



- Safe and standardized circuit design, functional modules and electrical network components are neatly and orderly installed in independent electrical boxes, ensuring electrical safety and facilitating inspection and maintenance.



- Saddle-mobile structure, High machining accuracy and cost effective

- 5" touch screen; Multiple conversational operation interface
Input processing parameters to achieve automatic precision machining
Easy to learn and operate

- Telescopic organ cover dust proof structure, convenient for loading and unloading workpieces, saving space

- Air-cooled external oil station

- High rigidity, wide width and stable casting structure; Stable and long-lasting machining accuracy of machine tools

M7140x8/TCK

★ Front and rear precision linear guide rails



- Front and rear precision linear guide rails with good seismic resistance.

GUIBEI MACHINE



MK7132×6/T



MK7140×8/T



MM7150×12

主要技术参数 Main Specifications	单位 unit	M7130×6/T M7130×6/TCK	M7132×6/T M7132×6/TCK	M7132×8/T M7132×8/TCK	M7132/T M7132/TCK
工作台面尺寸 (宽×长) Size of working table (W×L)	mm	300×600	320×600	320×800	320×1000
最大磨削工件尺寸 (宽×长×高) Max.size of workpiece to be ground (W×L×H)	mm	300×600×400	320×600×400	320×800×400	320×1000×400
工作台纵向行程 Longitudinal stroke of table	mm	700		900	1100
主轴中心线到台面的距离 Distance spindle centre to table	mm	175~575		200~600	
工作台最大承重量 (含电磁吸盘) Table Max.table load capacity (Including electromagnetic chuck)	kg	280	300	400	500
磨头电机功率 Grinding wheel motor power	kW	4	5.5	7.5	
砂轮尺寸 (外径×宽度×内径) Wheel size (O.D×W×I.D)	mm	Φ350×40×Φ127		Φ400×50×Φ127	
砂轮转速 Wheel speed	r/min	1460			
垂直移动距离 Vertical movement distance	mm	420			
垂直最小进给量 Min.vertical feed	mm	0.005			
横向移动距离 Lateral movement distance	mm	360			
横向进给 Lateral feed 连续 Continuous 断续 Intermittent	mm/min mm/次	100~2000 3~15(任意)			
加工工件等厚度 Equal thickness of the workpiece	mm	300:0.005			
工件表面粗糙度 Surface roughness of the workpiece	μm	Ra0.63			
电气设备总容量 Electrical equipment total capacity	kVA	12		16	
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)	mm	2600×2300×2350		3150×2400×2350	3550×2400×2350
机床净重 N.W	Kg	约 2800	约 3000	约 3300	约 4200

主要技术参数 Main Specifications	单位 unit	MK7132×6/T MK7132×6B/T MK7132×6C/T	MK7132×8/T MK7132×8B/T MK7132×8C/T	MK7140×8/T MK7140×8B/T MK7140×8C/T
工作台面尺寸 (宽×长) Size of working table (W×L)	mm	320×600	320×800	400×800
最大磨削工件尺寸 (宽×长×高) Max.size of workpiece to be ground (W×L×H)	mm	320×600×400	320×800×400	400×800×400
工作台纵向移动量 (液动) Longitudinal travel of table (Hydraulic)	mm	100~700	100~900	
工作台最大承重量 (含电磁吸盘) Table Max.table load capacity (Including electromagnetic chuck)	kg	300	400	500
砂轮尺寸 (外径×宽度×内径) Wheel size (O.D×W×I.D)	mm	Φ350×40×Φ127	Φ400×50×Φ127	
磨头电机功率 Grinding wheel motor power 转速 Rotational speed	kW r/min	5.5 1440	7.5 1440	7.5 1440
电气设备总容量 Electrical equipment total capacity	kVA	12	16	
加工工件等厚度 Equal thickness of the workpiece	mm	300:0.005		
工件表面粗糙度 Surface roughness of the workpiece	μm	Ra0.63		
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)	mm	2600×2300×2350	3150×2400×2350	3550×2400×2350
机床净重 N.W	Kg	约 3000	约 3300	约 4500



GUIBEI MACHINE

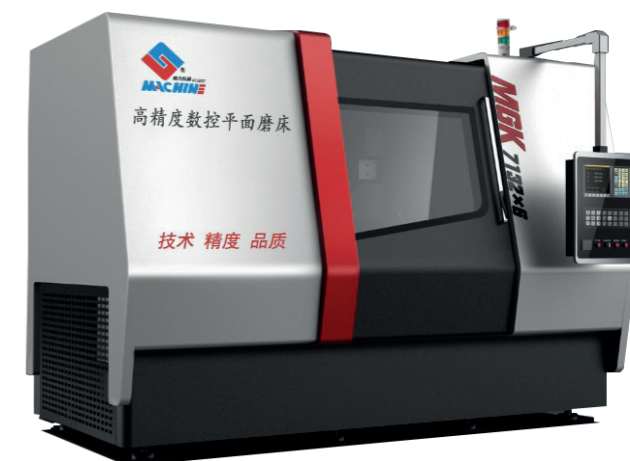
★ Certificate



MM7132x6/CK



MMK7140x8



MGK7132x6

主要技术参数 Main Specifications	单位 unit	MMK7132x6 MM7132x6/CK	MMK7132 MM7132/CK	MMK7140x8 MM7140x8/CK	MMK7140 MM7140/CK
工作台面尺寸 (宽×长) Size of working table(W×L)	mm	320×600	320×1000	400×800	400×1000
最大磨削工件尺寸 (宽×长×高) Max.size of workpiece to be ground (W×L×H)	mm	320×600×400	320×1000×400	400×800×400	400×1000×400
工作台纵向移动量 (液动) Longitudinal travel of table (Hydraulic)	mm	100~700	100~1100	100~900	100~1100
工作台最大承重量 (含电磁吸盘) Table Max.table load capacity (Including electromagnetic chuck)	kg	200	330		415
横向进给 (无级调速) Cross-feed(stepless)			0.02~2		
连续 Continuous	m/min		0.1~15		
断续 Intermittent	mm				
垂直进给电子手轮最小刻度值 Min.down-feed electronic hand-wheel dial graduated to	mm		0.002		
砂轮尺寸 (外径×宽度×内径) Wheel size (O.D×W×I.D)	mm	Φ400×50×Φ127			
磨头电机功率 Grinding wheel motor power	kW	5.5		7.5	
转速 Rotational speed	r/min	1440		1440	
电气设备总容量 Electrical equipment total capacity	kVA	15		19	
加工工件等厚度 Equal thickness of the workpiece	mm	200~320:0.003			
工件表面粗糙度 Surface roughness of the workpiece	μm	Ra0.16			
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)	mm	2600×2300×2100	3400×2700×2100	3000×2700×2100	3400×2700×2100
机床净重 N.W	Kg	约 3000	约 4300	约 4000	约 4500

主要技术参数 Main Specifications	单位 unit	MGK7132x6	MGK7140x8
工作台面尺寸 (宽×长) Size of table working surface (W×L)	mm	320×600	400×800
最大磨削工件尺寸 (宽×长×高) Max.size of workpiece to be ground (W×L×H)	mm	320×600×400	400×800×400
工作台纵向行程 Longitudinal movement stroke of workpiece	mm	100~700	100~900
主轴中心线到台面的距离 Distance spindle centre to table	mm	175~575	
工作台纵向移动速度 (无极调速) Table longitudinal moving speed (Stepless)	m/min	3~25	
工作台最大承重量 (含电磁吸盘)Max.Allowable weight of workpiece	kg	200	330
电机功率 Motor power	KW	5.5	
砂轮尺寸 (外径×宽度×内径) Wheel size (O.D×W×I.D)	mm	Φ350×40×Φ127	
砂轮转速 Wheel speed	r/min	1460	
垂直移动距离 Vertical movement distance	mm	400	
垂直快速升降速度 Vertical rapid lifting speed	mm/min	300	
垂直最小进给量 Min.vertical feed	mm	0.001	
横向移动距离 Lateral movement distance	mm	335	415
横向进给 Lateral feed			
连续 Continuous	m/min	0.02~2	
断续 Intermittent	mm/次	0.1~10	
电气设备总容量 Electrical equipment total capacity	kVA	15	19
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)	mm	4200×2500×2500	4300×2500×2500
加工工件等厚度 Workpiece thickness	mm	0.002/300	
工件表面粗糙度 Surface roughness of workpiece	μm	≤Ra0.08	
净重 N.W	kg	约 3600	约 4800

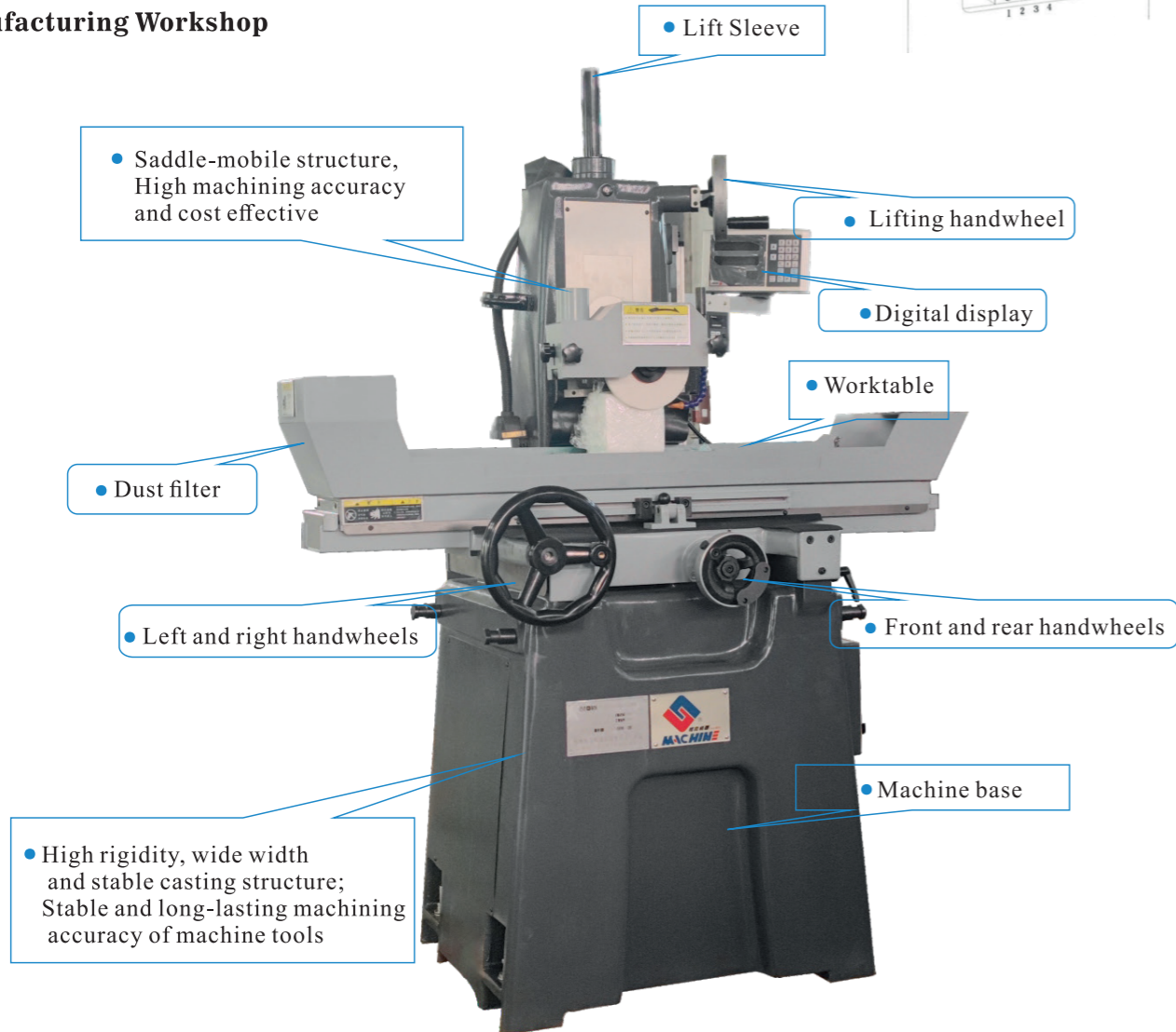
GUIBEI MACHINE

High cost effectiveness-High accuracy-Easy operation Saddle-mobile manual precision surface grinding machine

- Min. vertical feed: 5 μm
- Equal thickness of the workpiece 0.003/300mm
- Surface roughness of the workpiece Ra0.4



● Manufacturing Workshop



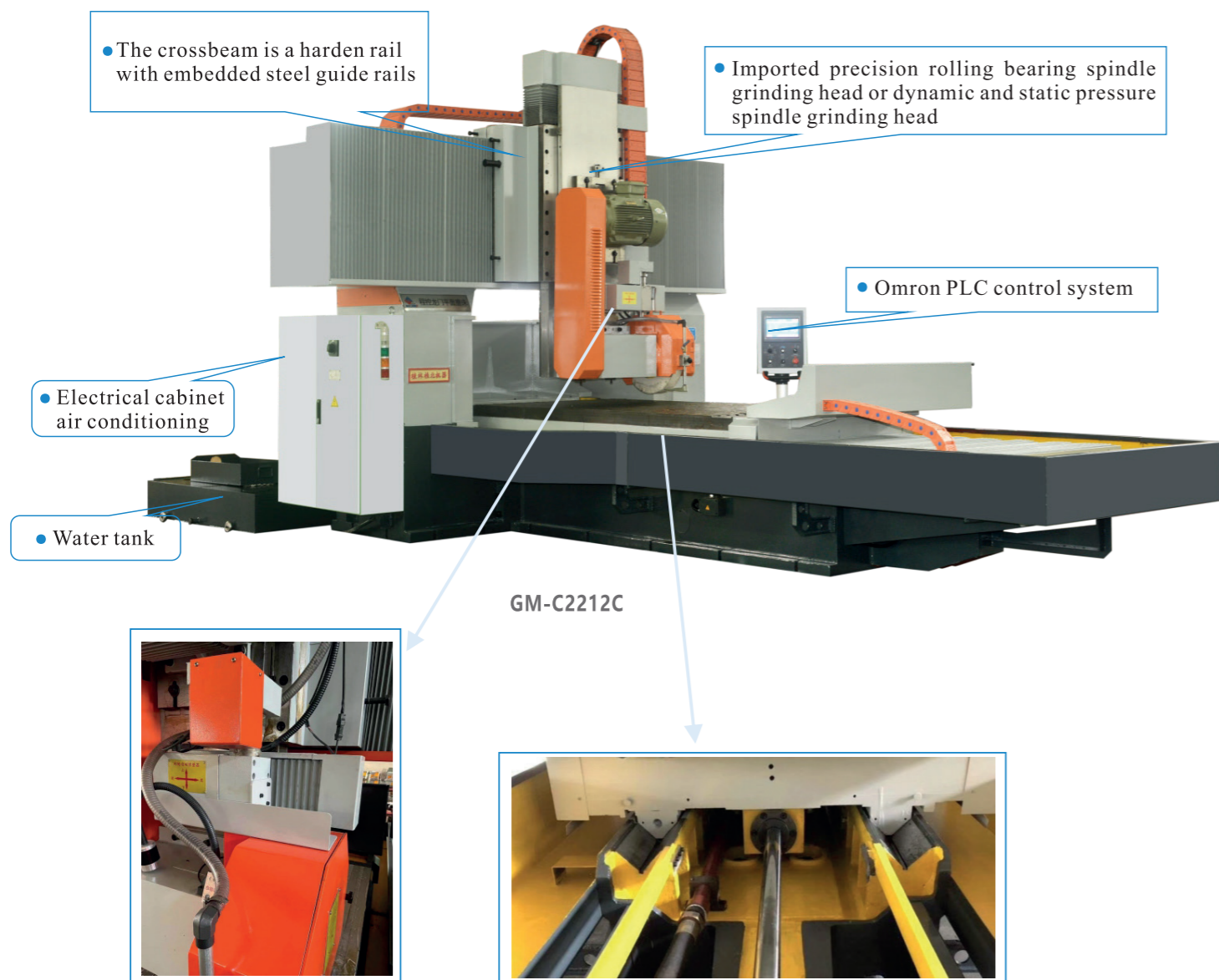
MM-150

主要技术参数 Main Specifications		单位 unit	MM-150
工作台面尺寸 (宽×长) Table working surface (W×L)		mm	150×470
最大磨削尺寸 (宽×长×高) Max.size of workpiece to be ground (W×L×H)		mm	150×470×310
工作台纵向移动量 Table longitudinal travel		mm	485
永磁吸盘尺寸 (宽×长) Magnetic chuck size(W×L)		mm	150×350
工作台 T 形槽 (槽数×宽度) T-slot of workbench (number of slots × Width)		/	1×14
工作台拖板横向移动量 Max.travel of table (articulated bottom plate)cross		mm	180
垂直进给手轮 Vertical feed handwheel	每格 per frame	mm	1
	每转 per revolution		0.005
横向进给手轮 Horizontal feed handwheel	每格 per frame	mm	5
	每转 per revolution		0.02
砂轮中心线至台面的距离 Distance from wheel center to table		mm	89 ~ 350
砂轮尺寸 (外径×宽度×内径) Wheel size (O.D×W×I.D)		mm	Φ180×13×Φ31.75
砂轮转速 Rotational speed of wheel		r/min	3000
电气设备总容量 Electrical equipment total capacity		kVA	3
磨头电机功率 Grinding wheel motor		kW	1.5
冷却电机功率 Cooling motor power		kW	40
加工工件等厚度 Working surface to base level parallelism		mm	300:0.003
工件表面粗糙度 Surface roughness		μm	Ra0.4
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)		mm	1550×1150×1980
包装箱外形尺寸 (长×宽×高) packing dimensions (L×W×H)		cm	160×130×190
机床净重 N.W		kg	约 800

GUIBEI MACHINE

High cost effectiveness-High accuracy-Easy operation Gantry type surface grinding machines with PLC system

- **Min. vertical feed: 5 μm**
- **Equal thickness of the workpiece 0.01/1000mm**
- **Surface roughness of the workpiece Ra0.63μm**
- **Waviness Wz1.0μm**
- **Closed cooling water circulating water tank structure**
- **CNC systems can be configured according to user needs, such as the Siemens 828D system**



• Equipped with automatic grinding wheel dresser

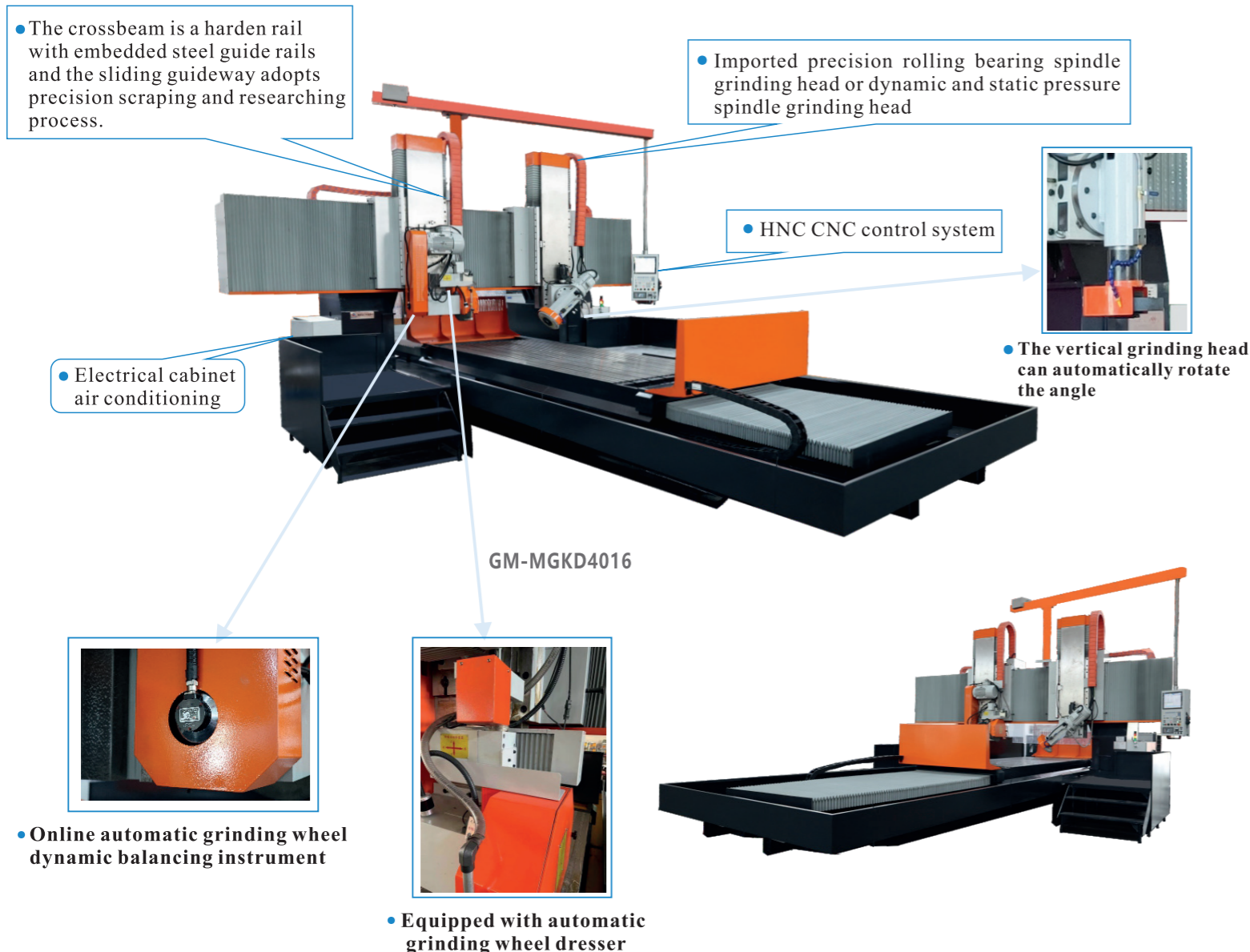
• Left and right V-V sliding guide rails

主要技术参数 Main Specifications	单位 unit	GM-C2212B GM-C2212C	GM-C2512B GM-C2512C	GM-C3012B GM-C3012C
工作台面尺寸 (长×宽) Size of table working surface (L×W)	mm	2200×1200	2500×1200	3000×1200
最大磨削工件尺寸 (长×宽×高) Max.size of workpiece to be ground (L×W×H)	mm	2200×1200×630	2500×1200×630	3000×1200×630
工作台纵向最大行程 Longitudinal stroke of table	mm	2300	2600	3100
龙门立柱间距 Distance between gantry columns	mm	1560		
周边磨头砂轮中心至台面距离 Distance from peripheral grinding spindle center to table	mm	200~880		
工作台纵向移动速度 (液压无级调速) Longitudinal movement speed (Hydraulic stepless)	m/min	5~25		
工作台最大承重量 (含电磁吸盘) Max.table load capacity (Including electromagnetic chuck)	kg	4300	4900	5800
磨头电机功率 Motor power of grinding head	KW	15		15
砂轮尺寸 (外径×宽度×内径) Wheel size (O.D×W×I.D)	mm	Φ500×75×Φ203		
垂直移动距离 Vertical movement distance	mm	680		
垂直快速移动速度 Vertical rapid movement speed	mm/min	400		
垂直最小进给量 Min.vertical feed	mm	0.005		
横向移动距离 Horizontal movement distance	mm	1300		
横向移动速度 Horizontal movement speed	mm/min	250~2400		
断续进给量 Intermittent feed	mm/次	1-35 (任意)		
加工表面对基面的平行度 Working surface to base level parallelism	mm	0.01/1000		
表面粗糙度 Surface roughness	μm	Ra0.63		
电气设备总容量 Electrical equipment total capacity	kVA	35		40
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)	mm	7500×3500×4000	9000×3500×4000	
机床净重 N.W	Kg	约 19000	约 21000	约 24000

GUIBEI MACHINE

High cost effectiveness-High accuracy-Easy operation High precision CNC double column guideway grinding machines

- **Min. vertical feed: 2 μm**
- **Equal thickness of the workpiece 0.004/1000mm**
- **Surface roughness of the workpiece Ra0.08μm**
- **Closed cooling water circulating water tank structure**
- **CNC systems can be configured according to user needs, such as the Siemens or Fanuc system.**



主要技术参数 Main Specifications	单位 unit	GM-MGKD2212C	GM-MGKD4016C
工作台面尺寸 (长×宽) Size of table working surface (L×W)	mm	2200×1200	4000×1600
最大磨削工件尺寸 (长×宽×高) Max.size of workpiece to be ground (L×W×H)	mm	2200×1200×800 立: 650 (高)	4000×1600×800 立: 650 (高)
工作台纵向最大行程 Longitudinal stroke of table	mm	2300	4100
龙门立柱间距 Distance between gantry columns	mm	1560	2800
周边磨头砂轮中心至台面距离 Distance from peripheral grinding spindle center to table	mm	200 ~ 1020	200 ~ 1050
工作台纵向移动速度 (液压无级调速) Longitudinal movement speed(Hydraulic stepless)	m/min	5 ~ 25	
工作台最大承重量 (含电磁吸盘) Max.table load capacity(Including electromagnetic chuck)	kg	4300	10000
卧磨头电机功率 Motor power of horizontal grinding head	KW	15	
立磨头电机功率 Motor power of vertical grinding head	KW	7.5	
卧磨砂轮尺寸 (外径×宽度×内径) Horizontal grinding wheel size (O.D×W×I.D)		Φ500×75×Φ203	
立磨砂轮尺寸 (外径×宽度×内径) Vertical grinding wheel size (O.D×W×I.D)	mm	Φ400×50×Φ127	
磨头垂直移动距离 Vertical movement distance of grinding wheel	mm	850	
磨头垂直快速移动速度 Vertical rapid movement speed grinding whee	mm/min	400	
磨头垂直最小进给量 Min.vertical feed grinding whee	mm	0.002	
磨头横向移动距离 Horizontal movement distance grinding whee	mm	2000	2800
横向移动速度 Horizontal movement speed	mm/min	250 ~ 2400	
断续进给量 Intermittent feed	mm/次	1-35 (任意)	
加工表面对基面的平行度 Working surface to base level parallelism	mm	0.004/1000	
表面粗糙度 Surface roughness	μm	Ra0.08	
电气设备总容量 Electrical equipment total capacity	kVA	50	70
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)	mm	8050×5500×5000	13000×7000×5500
机床净重 N.W	Kg	约 24000	约 55000

GUIBEI MACHINE

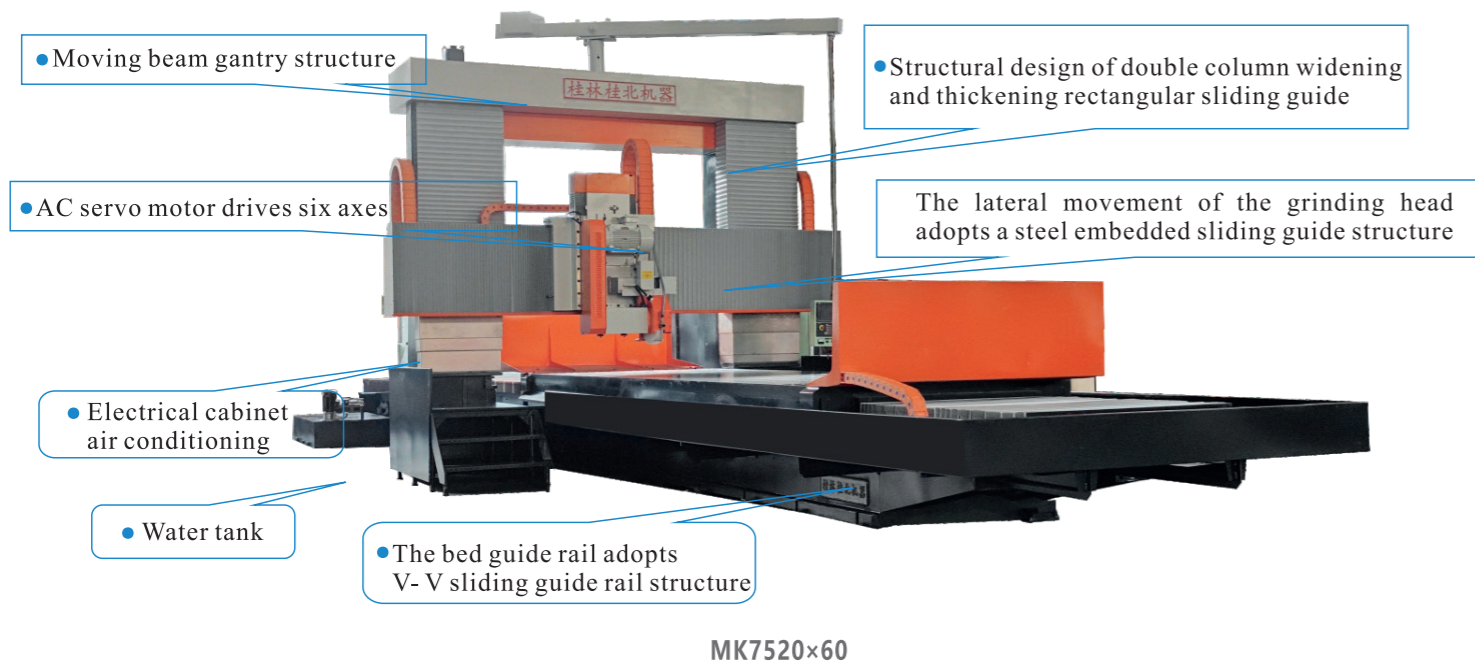
Technology-Quality-Efficiency

CNC double column surface grinding machines with moving beam

- Min. vertical feed: 5 μm
- Equal thickness of the workpiece 0.01/1000mm
- Surface roughness of the workpiece Ra0.63μm
- Waviness Wz1.0μm
- The lifting of the crossbeam adopts a Heidenhain fully enclosed ring grating ruler
- Configure Siemens 828D CNC system



● The vertical grinding head can automatically rotate the angle



● Moving beam gantry structure

● Structural design of double column widening and thickening rectangular sliding guide

● AC servo motor drives six axes

The lateral movement of the grinding head adopts a steel embedded sliding guide structure

● Electrical cabinet air conditioning

● Water tank

● The bed guide rail adopts V-V sliding guide rail structure

主要技术参数 Main Specifications	单位 Unit	MK7520×60 MK5220×60	MK7520×80 MK5220×80
磨削工件的最大尺寸 (宽×长×高) Max.size of workpiece to be ground(W×L×H)	mm	2000×6000×1500	2000×8000×1500
工作台尺寸 (宽×长) Worktable surface (L×W)	mm	2000×6000	2000×8000
工作台纵向最大行程 Longitudinal stroke of worktable	mm	6100	8100
龙门两立柱间距 Distance between gantry columns	mm	2880	
最大允许通过工件宽度 Maximum allowable through workpiece width	mm	2600	
卧磨头砂轮中心至台面距离 Horizontal grinding wheel center to table distance	mm	200~1750	
工作台速度 (液压无级调速) Longitudinal movement speed(Hydraulic stepless)	m/min	5~25	
工作台最大承重量 (含电磁吸盘) Max .table load weight (Including eletromagnetic chuck)	kg	18000	22000
卧磨头电动机功率 Motor power of grinding head	kW	15	22
砂轮尺寸 (外径×宽度×内径) Grinding wheel size (O.D×W×I.D)	mm	φ500×75×φ203 φ400×50×φ127(MK55**Series:Vertical grinding wheel)	
横梁垂直移动距离 Vertical movement distance of the cross beam	mm	1200	
横梁上下移动速度 Moving speed of cross beam up and down	mm/min	300	
磨头垂直移动距离 Vertical movement distance of grinding head	mm	300	
垂直快速移动速度 Vertical fast moving speed	mm/min	400	
垂直最小进给量 Min.vertical feed	mm	0.005	
横向移动距离 Horizontal movement distance	mm	2100	
横向移动速度 Horizontal moving speed	mm/min	50~2400	
断续进给量 Intermittent feed	mm/次	1-35mm (任意)	
加工工件等厚度 Equivalent thickness of machined workpiece	mm	0.01/1000	
加工工件表面粗糙度 Surface roughness of machined workpiece	μm	≤Ra0.63	
数控轴线定位精度和重复定位精度 (横向及垂直) CNC axis positioning accuracy and repeated positioning accuracy (Lateral and Vertical)	μm	0.03/2000 (双向) 0.02/2000 (双向)	
横梁垂直移动对工作台纵向移动或磨头横向移动的垂直度 Verticality of vertical movement of cross member to longitudinal movement of worktable or lateral movement of grinding head	μm	0.03/500	
电气设备总容量 Total capacity of electrical equipment	kVA	75	90
机床外形尺寸 (长×宽×高) Overall dimensions (L×W×H)	mm	17000×6000×5500	21000×6000×5500
整机重量 N.W	kg	约 72000 kg	约 82000 kg

GUIBEI MACHINE

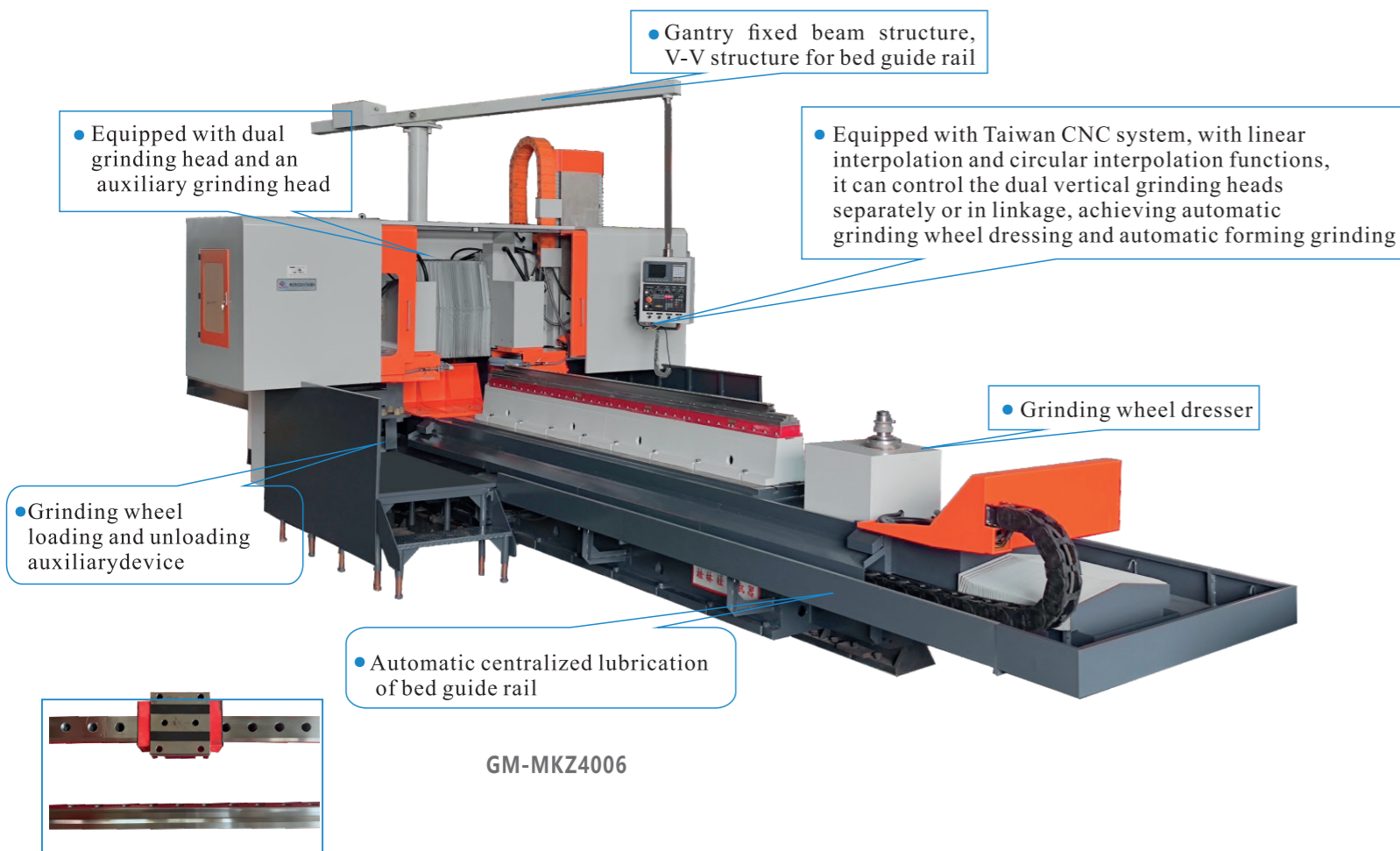
Accuracy--Quality-Efficiency

CNC profile precision grinding machine of the linear rolling guideways

- **Min. vertical feed: 5 μm**
- **The parallelism of the facing two sides of the orbit arc.0.004/1000mm**
- **Surface roughness of the workpiece Ra0.32μm**
- **Suitable for grinding precision curved surfaces of linear guide rails and other formed surfaces, as well as assisting in small surface grinding, with high work efficiency and stability of accuracy**



• Details



GM-MKZ4006

• Workpieces



主要技术参数 Main Specifications		单位 unit	GM-MKZ4006	GM-MKZ6006
工作台面 (长×宽) Work surface (L×W)		mm	4000×600	6000×600
龙门立柱间距 Distance between column		mm	1200	
工作台纵向移动速度 Speed of table		m/min	5~25 (Stepless)	
立式磨头磨削尺寸 (宽×长) Size of be ground of vertical grinding head (W×L)		mm	(15~80) ×4000	(15~80) ×6000
辅助磨头磨削尺寸 (宽×长×高) Size of be ground of auxiliary grinding head (W×L×H)		mm	600×4000×600	600×6000×600
工作精度 Working accuracy	工件表面粗糙度 Surface roughness of workpieces	μm	Ra0.32	
	轨道圆弧面对两侧的平行度 The parallelism of the facing two sides of the orbit arc.	mm	0.006/4000	0.009/6000
立式磨头 Vertical grinding head				
横向移动距离 Lateral movement distance		mm	600	
砂轮尺寸 (外×径宽度×内径) Grinding wheel size (O.D×W×I.D)		mm	Φ600×(20~80)×Φ203	
砂轮线速度 (变频调速) Grinding wheel linear velocity		m/s	≤35	
磨头电机功率 Grinding head motor power		kW	(2×) 25 (电主轴)	
立式砂轮修整器电机功率 Vertical grinding wheel dresser motor power		kW	3.5 (电主轴)	
辅助磨头 Auxiliary grinding head				
横向移动距离 Lateral movement distance		mm	600	
垂直移距离 Vertical movement distance		mm	600	
砂轮尺寸 (外径×宽度×内径) Grinding wheel size (O.D×W×I.D)		mm	Φ200×40×Φ75	
砂轮转速 Grinding wheel rotation speed		r/min	2900	
磨头电机功率 Grinding head motor power		kW	4	
工作台最大承载重量 (含工夹具) Max .load weight (Including tooling)		kg	4000	5000
机床外形尺寸 (长×宽×高) Machine tool appearance (L×W×H)		mm	13000×4200×3660	17000×4200×3660
机床重量 Net weight		kg	约 23000kg	约 26000kg

GUIBEI MACHINE

Technology--Quality-Efficiency

CNC grinding machines with floor-standing table

- **Min. vertical feed: 5 μm**
- **Equal thickness of the workpiece 0.01/1000mm**
- **Surface roughness of the workpiece Ra0.63μm**
- **Reducing costs, saving one-third of the floor space compared to the mobile structure of the worktable, reducing electricity and fuel consumption costs, and reducing maintenance costs**



• The grinding head adopts imported precision rolling bearing spindle or dynamic and static pressure spindle

• Floor standing workbench with strong load-bearing capacity

• Omron PLC control system

• The guide rail of the machine bed is a double flat double V structure

• Closed protective cover, clean and environmentally friendly

GM-C3016/LD

主要技术参数 Main Specifications	单位 unit	12 系列		16 系列	
		GM-C2512/LD GM-C3012/LD		GM-C2016/LD GM-C3016/LD GM-C5016/LD	GM-C2516/LD GM-C4016/LD GM-C6016/LD
最大磨削工件尺寸 (长×宽×高) Max.size of workpiece to be ground (L×W×H)	mm	****×1200×800		****×1600×800	
		****按工作台长度定 (given by table length)			
工作台面尺寸 (长×宽) Size of table working surface (L×W)	mm	2500 (3000、4000、5000、6000) ×1200		2500 (3000、4000、5000、6000) ×1200	
横梁纵向最大行程 Max.beam longitudinal travel	mm	按工作台长度定 given by table length			
床身间距离 Distance between bed	mm	2400		2800	
周边磨头主轴中心线到台面距离 Distance from peripheral grinding spindle center to table	mm	200 ~ 1050			
横梁纵向移动速度 Beam longitudinal moving speed	m/min	3 ~ 23			
工作台最大承载重量 Max.allowable weight of workpiece	kg/m ²	10000			
磨头电机功率 Motor power of grinding head	KW	15			
砂轮尺寸 (外径×宽度×内径) Grinding Wheel dimensions (O.D×W×I.D)	mm	Φ500×75×Φ203			
砂轮线速度 Wheel speed	m/s	< 35			
垂直移动距离 Vertical movement distance	mm	850			
快速进给速度 Rapid feed speed	mm/min	400			
垂直最小进给量 Minimum vertical feed	mm	0.005			
横向移动距离 Horizontal movement distance	mm	1300		1750	
快速移动速度 Rapid move speed	mm/min	50 ~ 2400			
断续进给量 Intermittent feed	mm/次	1 ~ 35			
横向最小进给量 Minimum horizontal feed	mm	0.01			
加工工件等厚度 Working surface to base parallelism	mm	0.01/1000			
工件表面粗糙度 Surface roughness	μm	Ra0.63			
电气设备总容量 Electrical equipment total capacity	kVA	33			

GUIBEI MACHINE

HIGH Quality-Intelligent-Green CNC Vertical & Composite Grinding Machines With Two Columns & Rotary Table

- **Min. setting unit : 1 μm**
- **Surface roughness of the workpiece Ra0.32μm**
- **Equipped with Siemens 828D CNC system, it can be controlled separately or through two axes simultaneously control, with functions such as linear interpolation and arc interpolation.**



• The working table rotation adopts static rotary table, which is directly driven by torque motor.

• The grinding head adopts rolling bearing structure, which is directly driven by servo motor for rotation with stepless speed to meet the grinding needs of workpieces of different materials.

• Equipped with diamond roller dresser and diamond pen for dressing to achieve fiat and curved surface dressing.

• The C-axis of the static rotary table adopted by DD directly driven, equipped with Renishaw RESA high-precision accuracy circular encoder, which can achieve high-precision and arbitrary angle positioning with high repeatability. The electrical permanent magnetic chuck with adjustable suction force and automatic demagnetization.



GM-KLF1000

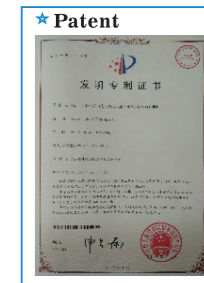
• Closed protective cover, clean and environmentally friendly

主要技术参数 Main Specifications		单位 unit	GM-KLF0800	GM-KLF1000	GM-KLF1250	GM-KLF1600	GM-KLF2000
基本参数 Basic parameters	工作台(吸盘)直径 Electromagnetic chuck diameter	mm	φ800	φ1000	φ1250	φ1600	φ2000
	最大工件回转直径 Workpiece max. rotation diameter	m/min	φ900	φ1100	φ1350	φ1700	φ2100
	最大磨削工件高度 Maximum height of ground workpiece	mm	500				
	内孔磨削范围 Grinding range of inner hole	mm	φ300~φ700	φ300~φ900	φ300~φ1050	φ300~φ1400	φ300~φ1800
	工作台承重 Max.table load capacity	kg	1600	2000	2500	3200	4000
	电气设备总容量(约) Electrical equipment total capacity	kVA	58	60	70	85	95
	机床外形尺寸(长×宽×高) Overall dimensions(W*L*H)	cm	540×520×460	580×560×460	600×560×460	640×580×460	680×610×460
	机床重量(约)N.W	kg	25000	28000	32000	37000	41000
	工作台 Working table	工作台回转精度(轴向/径向)Working table rotation accuracy (axial/radial)	mm	0.001			
工作台最大转速 Maximum speed of working table		RPM	70	60		50	
工作台回转最小设定单位 Min. setting unit for working table rotation		°	0.001				
重复定位精度 Repetitive positioning accuracy		"	±2.5				
磨头横向移动 Cross movement of grinding head	最大行程 Maximum movement stroke	mm	1600	1800	2000	2200	2400
	移动速度 Movement speed	m/min	0.01-2.4				
	最小设定单位 Min.setting unit	mm	0.001				
	定位精度 Positioning accuracy	mm	0.01		0.012	0.015	0.020
	重复定位精度 Repetitive positioning accuracy	mm	0.008		0.01	0.012	0.015
磨头垂直移动 Vertical movement of grinding head	最大行程 Maximum movement stroke	mm	550				
	移动速度 Movement speed	m/min	0.01~0.4				
	最小设定单位 Min.setting unit	mm	0.001				
	定位精度 Positioning accuracy	mm	0.008				
主轴及砂轮 Spindle and grinding head	重复定位精度 Repetitive positioning accuracy	mm	0.006				
	左右磨头主轴电机功率 Motor power of grinding head	kW	15		18.5		22
	左右磨头主轴电机最大转速 Max. speed of grinding head spindle motors	RPM	3000				
成形修整器 Profile dresser	砂轮规格(外径×内径×厚度) Wheel size (O.D×I.D×W)	mm	φ450×φ127× (30~63)				
	修整电机功率 Motor power of dresser	kW	5.5				
	修整主轴转速 Spindle speed of dresser	RPM	0~3000				
工作精度 working accuracy	滚轮安装孔直径 Diameter of roller installation hole	mm	φ52				
	圆度 Roundness	mm	0.002				
	圆柱度 Cylindricity	mm	0.004				
	同轴度 Coaxiality	mm	0.005				
表面粗糙度 Surface roughness	μm	Ra0.32					

GUIBEI MACHINE

Technology--Quality-Efficiency

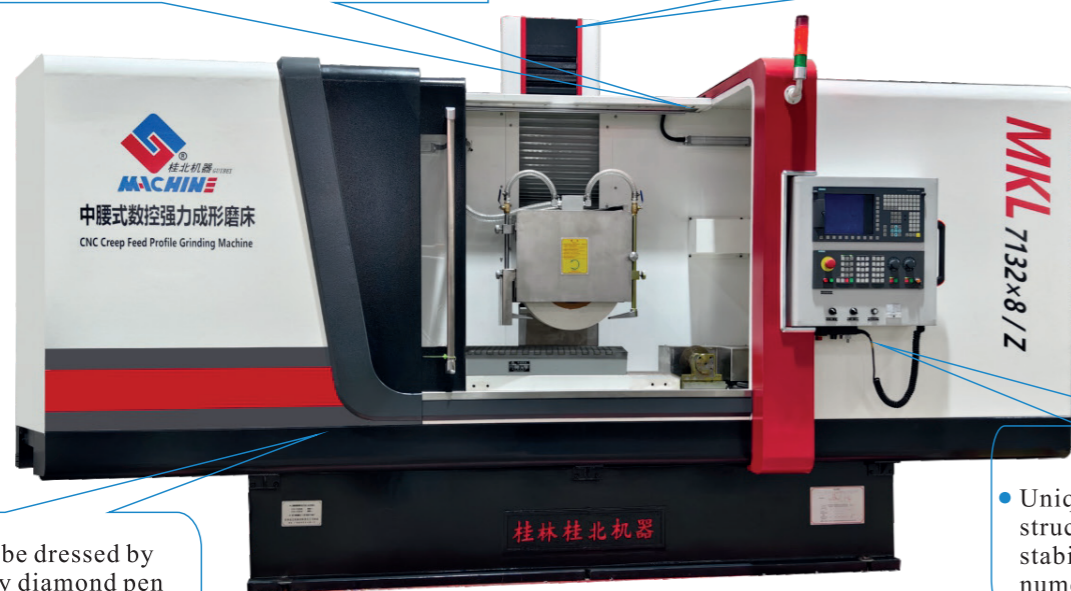
CNC creep feed profile grinding machine



- The machine adopts the creep feed structure and longitudinal linear motor drive, which runs smoothly and work with high precision.
- The machine is widely used in aircraft, ship, automobile (locomotive), hydraulic components and other manufacturing industries engine or turbine blade fir roots and locking plate groove, steering nut teeth, diesel engine connecting rod body and connecting rod cover combined teeth, thread rolling plate edgesurface, cycloidal pump rotor and other complex surfaces of the form grinding process.

● X, Y, Z three-axis are using linear guide, Y-axis and Z-axis servo motor driven ball screw drive, X-axis linear motor drive; linear motor with high precision, fast response speed, high sensitivity, smoothness, safety and reliability of the advantages of a long life, etc., the application of the grinder can be very good to improve the processing of the surface quality with the form of chipping and surface grinding and other functions.

● With linear interpolation and circular interpolation and other functions, can realize automatic cycle grinding, positioning accuracy and repeated positioning accuracy.

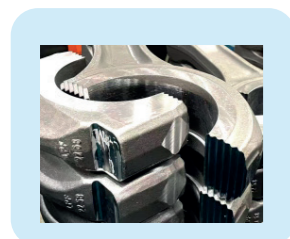


● Grinding wheel can be dressed by diamond roller, or by diamond pen and diamond disethrough axis Y and axis Z linkage dressing with high precision.

● Unique anti-collision grinding head structure, spindle accuracy and stability, standard Siemens 828D numerical control system.

MKL7132x8/Z

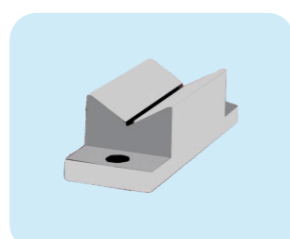
★ Sample Grinding Applications



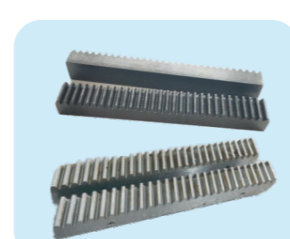
engine connecting rod
发动机连杆



Curved surface forming
曲面成形



V-shaped surface forming
V-形面成形



Tooth profile grinding
齿形磨削



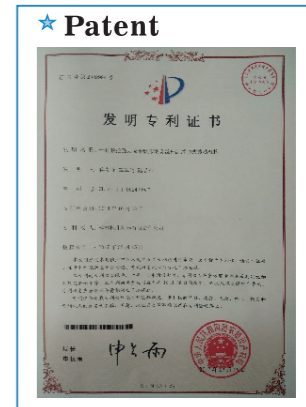
Engine blades
发动机叶片

主要技术参数 Main Specifications	单位 Unit	MKL7132x8/Z
工作台面尺寸(宽×长)Workbench dimensions (W*L)	mm	320×800
最大磨削尺寸(宽×长×高)Max. grinding dimensions (W*L*H)	mm	320×800×500
工作台纵向移动速度 Longitudinal traveling speed of the workbench	m/min	0.02-30
工作台纵向移动最小设定单位 Min. setting unit for the longitudinal traverse of the workbench	mm	0.001
工作台负载量(含电磁吸盘) Max. load of the workbench (including electromagnetic chuck and turntable)	kg	500
工作台纵向行程(X轴) Longitudinal stroke of the workbench (X-axis)	mm	1200
主轴中心至台面的距离(Y轴) Distance from spindle center to the workbench (Y-axis)	mm	200-750
立柱横向最大行程(Z轴) Max. horizontal stroke of the column (Z-axis)	mm	320
磨头垂直进给速度 Vertical feed of grinding head	m/min	0.02-2
磨头垂直进给最小设定单位 Min. setting unit for vertical feed of grinding head	mm	0.001
立柱横向移动速度 Horizontal movement speed of the column	m/min	0.04-3
立柱横向移动最小设定单位 Min. setting unit for horizontal movement of the column	mm	0.001
砂轮尺寸(外径×厚度×内径) Grinding wheel dimensions (O.D×W×I.D)	mm	φ500×(50-80)×φ203
电气设备总容量 Total capacity of electrical equipment	kVA	50
伺服主轴电机功率 Servo spindle motor power	kW	22
金刚滚轮驱动电机功率 Driven motor power of diamond rollers	kW	2.2
强力磨削 V 形面纵向直线度 Longitudinal straightness of strong grinding V-shaped surface	mm	0.010/100
强力磨削 V 形面纵向轮廓度 Longitudinal contour of strong grinding V-shaped surface		±5
工件表面粗糙度 Surface roughness of the workpiece	μm	0.63
机床外形尺寸(长×宽×高) Machine tool dimensions (W*L*H)	mm	4400×2300×2600
净重(约)Net weight	kg	5800

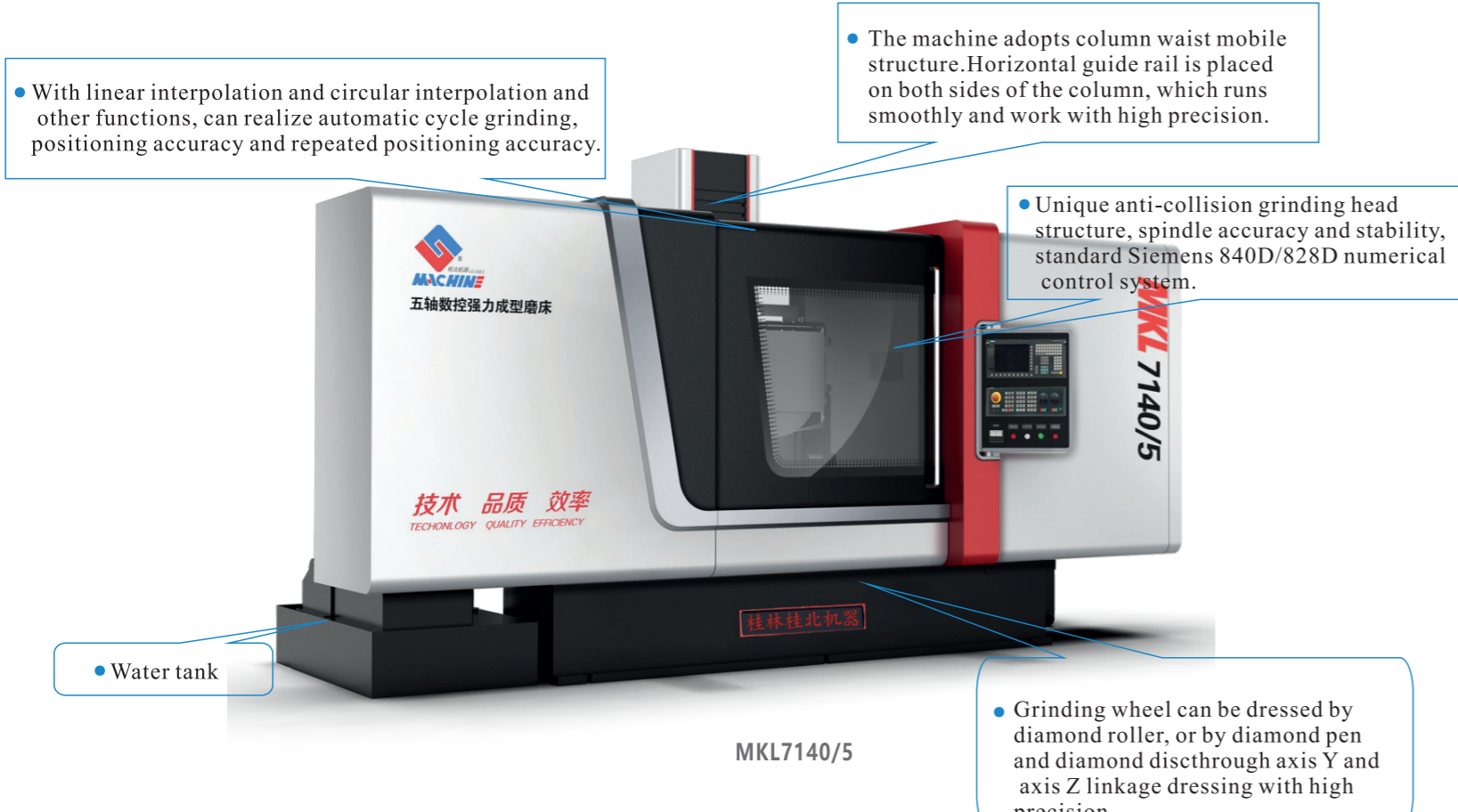
GUIBEI MACHINE

Technology--Quality-Efficiency

Five-axes column waist-mobile CNC creep feed profile grinding machines

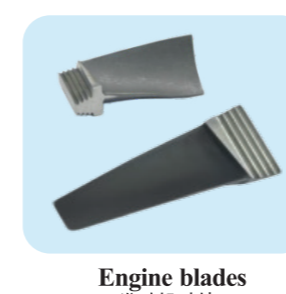
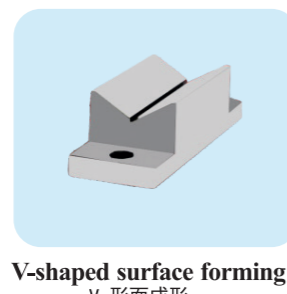
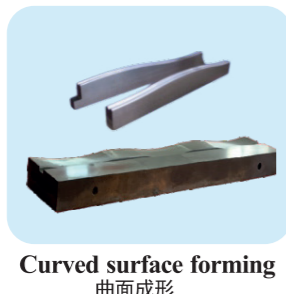


- The machine is suitable for multi-direction, convex surface, concave surface, arc surface and other parts surface.
- The machine has five CNC axes, X,Y,Z for linear axis, which adopted linear guide rail and ball screw structure.
- X-axis adopts floating nut structure with high speed screw, with novel design, advanced technology, sensitive feed and high machining precision, which has the functions of forming grinding and surface grinding.
- A-axis is inclined axis, B-axis is rotary axis and equipped with HEIDENHAIN encoder, which with high repetition accuracy.



主要技术参数 Main Specifications		单位 Unit	MKL7140/5
工作台面尺寸 (宽×长) Size of working table (W*L)		mm	400×1000
工作台最大承重量 (含电磁吸盘及转台) Max table load capacity (Including eletromagnetic chuck and turntable)		kg	780
工作台纵向移动 (X 轴) Table longitudinal movement (axis-X)	最大行程 Max. stroke	mm	1400
	移动速度 Speed of movement	m/min	0.02~15
	最小设定单位 Setting unit	mm	0.001
磨头垂直进给 (Y 轴) Wheel head vertical feed (axis-Y)	主轴中心至台面距离 Distance from spindle center to tabel	mm	200~750
	移动速度 Speed of movement	m/min	0.01~2
	最小设定单位 Setting unit	mm	0.001
立柱横向移动 (Z 轴) Lateral movement of column (axis-Z)	最大行程 Column transverse travel	mm	400
	移动速度 speed of travel movement	m/min	0.01~3
	最小设定单位 Setting unit	mm	0.001
倾斜轴 (A 轴) Tilt axis (axis- A)	转角范围 Angle range	°	±60°
	最小进给量 Min.feed	°	0.001°
回转轴 (B 轴) Axis of rotation (axis-B)	转角范围 Angle range	°	0°~360°
	最小进给量 Min.feed	°	0.001°
主轴伺服电机 Spindle motor	功率 Power	kW	22
	转速 Rotation speed	rpm	0~1500
砂轮尺寸 Wheel size	外径 O.D	mm	φ500
	内径 I.D	mm	φ203
	宽度 Width	mm	50~80
金刚滚轮驱动电机功率 Power of roller motor		kW	2.2
修整主轴中心至台面距离 Distance from dressing spindle to table (修整轴中心高于工作台面) (Dressing shaft center is higher than working table)		mm	45
电气设备总容量 (约) Electrical equipment total capacity		kVA	50
整机参数 Machine parameter	机床外形尺寸 (长×宽×高) Overall dimensions (L*W*H)	mm	4400×2350×2750
	机床净重(约) N.W	kg	7200

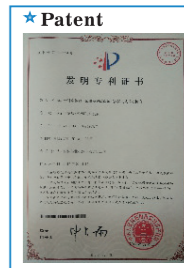
★ Sample Grinding Applications



GUIBEI MACHINE

Technology--Quality-Efficiency

Four-axes CNC vertical creep feed profile grinding machines

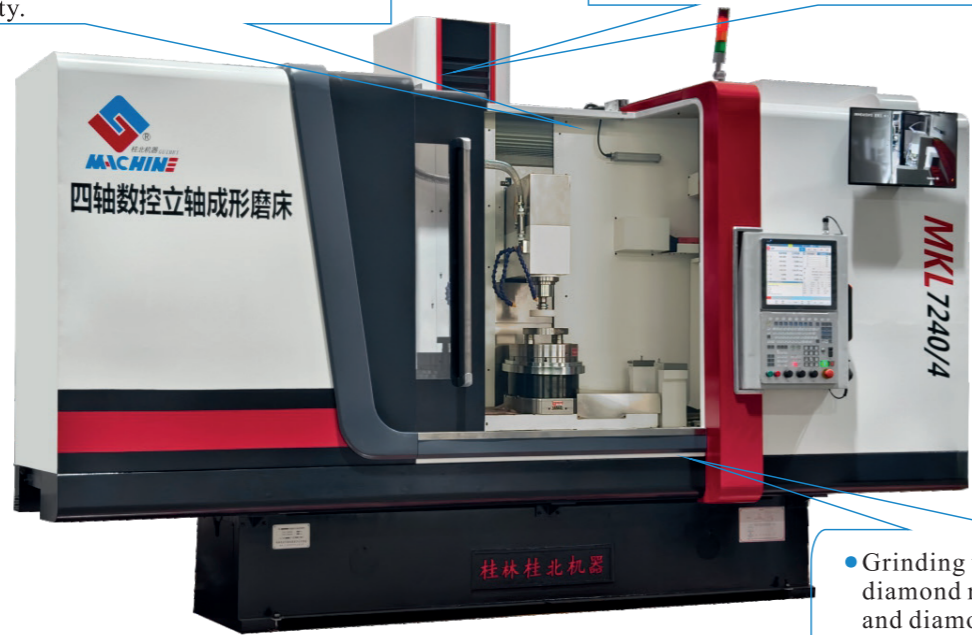


- The machine is mainly used for grinding of cylindrical, inner-hole, annular linear guide track raceway, flange-shaped irregular cylindrical and straight grooved parts. Meanwhile, it can grind large and medium-sized internal and external contour curves with two axes linkage. The machine is widely used in important national economic fields such as bearings, wind power, engineering machinery, valves, automobiles, military industry and robots, etc.
- The machine is standardly equipped with the Huazhong 848Di Five Axes CNC system, which can be used for individual control or four axes linkage control, with functions such as linear interpolation and circular interpolation.

● The machine consists of four axes with X, Y, and Z being linear axes, and all the three axes using linear guides and ball screw structures. The X axis adopts a floating nut structure authorized by the national invention patent. The C axis is a direct drive (DD) static pressure turntable equipped with RENISHAW RESA absolute high-precision circular grating, and the turntable has high accuracy both in rotation and repeatability.

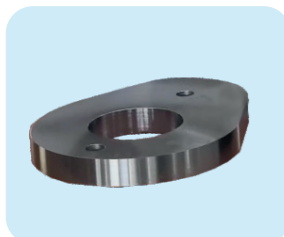
● The machine adopts column waist mobile structure. Horizontal guide rail is placed on both sides of the column, which runs smoothly and work with high precision.

● Grinding wheel can be dressed by diamond roller, or by diamond pen and diamond disc through axis Y and axis Z linkage dressing with high precision.

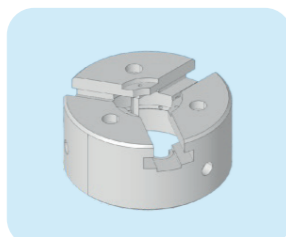


MKL7240/4

★ Sample Grinding Applications



Curved surface forming
曲面成形



T-slot forming
T-形槽成形



T-slot forming
T-形槽成形



T-slot forming
T-形槽成形



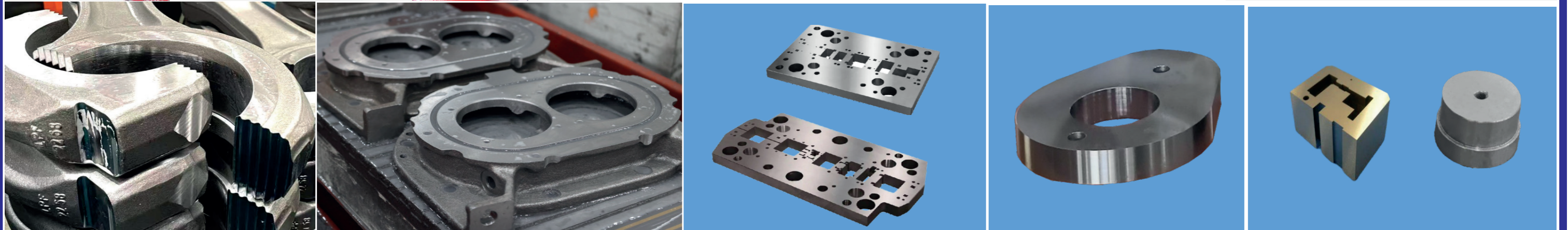
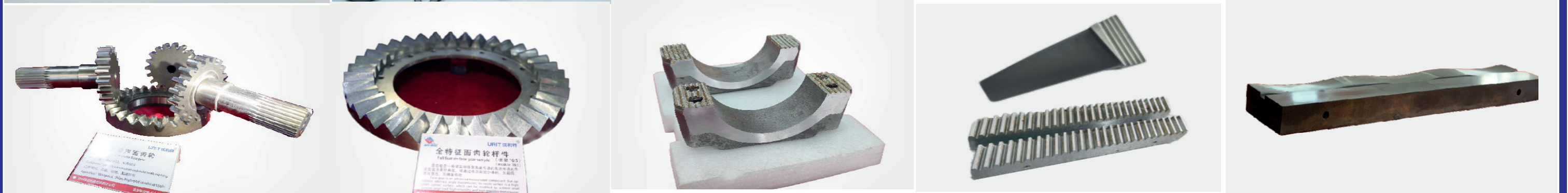
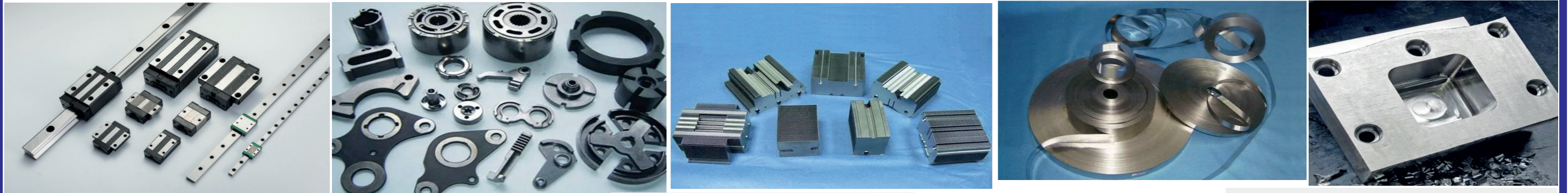
Curved surface forming
曲面成形

主要技术参数 Main Specifications		单位 Unit	MKL7240
工作台尺寸 (宽×长) Workbench dimensions (W*L)		mm	400×1000
工作台最大承重量 (含电磁吸盘及转台) Max. load of workbench (including electromagnetic chuck and turntable)		kg	1000
工作台纵向移动 (X轴) Longitudinal movement of workbench (X-axis)	最大行程 Max. stroke	mm	1050
	移动速度 Traveling speed	m/min	0.02 ~ 15
	最小设定单位 Min. setting unit	mm	0.001
磨头垂直进给 (Y轴) Vertical feed of grinding head (Y-axis)	主轴鼻端至台面距离 Distance from spindle nose to the workbench	mm	50 ~ 650
	移动速度 Traveling speed	m/min	0.01 ~ 2
	最小设定单位 Min. setting unit	mm	0.001
立柱横向移动 (Z轴) Horizontal movement of column (Z-axis)	最大行程 Max. stroke	mm	400
	移动速度 Traveling speed	m/min	0.01 ~ 3
	最小设定单位 Min. setting unit	mm	0.001
静压转台 Static pressure turntable	工作台尺寸 Workbench dimensions	mm	φ400
	转台总高 Total height of turntable	mm	230
	最大承重量 Maximum load capacity	kg	200kg
	转角范围 Rotation range	(°)	0 ~ 360°
	最小进给量 Min. feed rate	(°)	0.001°
	额定转矩 Rated torque	Nm	354
	静止转矩 Static torque	Nm	282
	旋转转速 Rotation speed	rpm	0 ~ 150
	旋转精度 Rotation accuracy	mm	≤0.001
重复定位精度 Repositioning accuracy	"	±2.5 "	
主轴刀柄接口尺寸 Spindle tool holder interface size			HSK-E50
主轴转速 Spindle speed		RPM	1000 ~ 13500
砂轮尺寸 Grinding wheel dimensions	外径×内径×厚度 (O.D×W×I.D)	mm	(φ100 ~ 150) × φ32×30
	外径×内径×厚度 (O.D×W×I.D)	mm	(φ20 ~ 60) × φ10×60 (双边凹) (Bilateral concave)
成形修整器 Forming trimmer	修整器电机功率 Trimmer motor power	kW	1.3
	修整主轴转速 Spindle speed of the trimmer	RPM	0 ~ 5000
	安装滚轮内孔直径 Inner hole diameter for installation of rollers	mm	35
工作精度 Working accuracy	基圆柱圆度 Roundness of base cylinder	mm	0.002
	基圆柱圆柱度 Cylindricity of the base cylinder	mm	0.004
	两圆柱同轴度 Coaxiality of two cylinders	mm	0.002
主轴鼻端至静压旋转台面距离 Distance from spindle nose to static pressure turntable		mm	0 ~ 300
电气设备总容量 (约) Total capacity of electrical equipment		kVA	35
整机参数 Overall parameters	机外外形尺寸 (长×宽×高) Outer dimensions of the machine (L*W*H)	mm	4400×2600×2800
	机床重量(约)Weight of the machine	kg	8500

GUIBEI MACHINE

Guibei machine solution

Tools and Mold Industry, Aerospace, Automotive industry, Equipment manufacturing



GUIBEI MACHINE

PRODUCTION PROCESS

STRICT PRODUCT CONTROL



1. Raw Materials Storage



2. Planning



3. Milling



4. Boring



5. Drilling



6. Grinding



7. Assembling



8. Inspecting

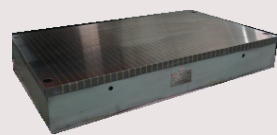


9. Packing



10. Finished Product

Accessories



Electromagnetic chuck



Diamond pen



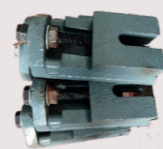
Wheel balancing arbor



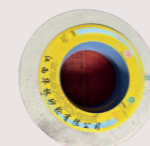
Foot bolt



Flange extractor



Leveling seats



Grinding wheel



Scraping board



Wheel dresser



Wheel balancing stand



Linear Encoder



Wheel flange