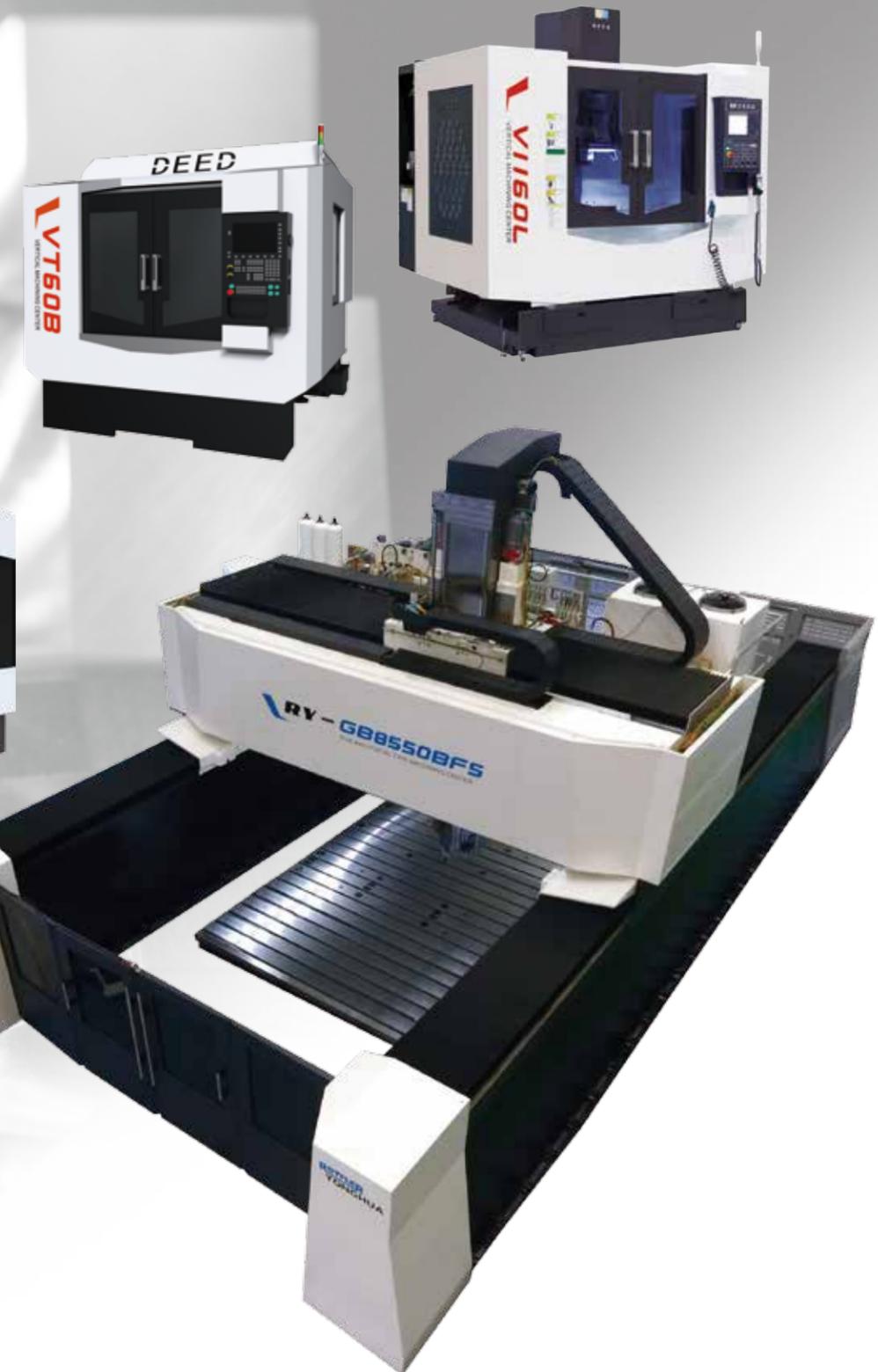




立加 VL / VMC  
钻攻 VT  
龙门 GL / GMC  
五轴 RY / GB/VB  
镗铣 PBC / HB



中国销售中心  
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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.



## Strong Technical Strength

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.



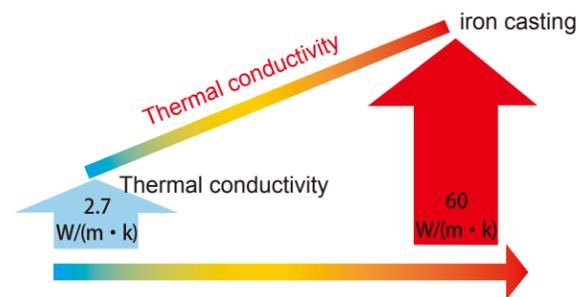
## Advanced Manufacture Equipment

15000 m<sup>3</sup> 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.



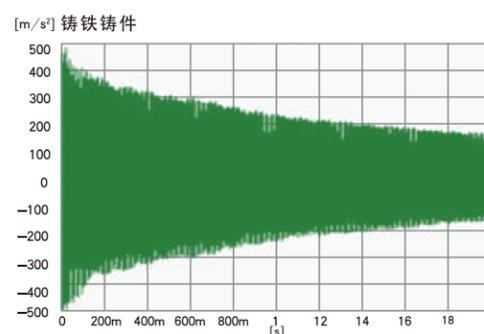
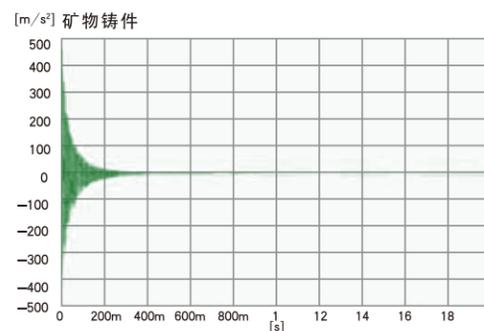
## Casting Material Technology

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.



### 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.

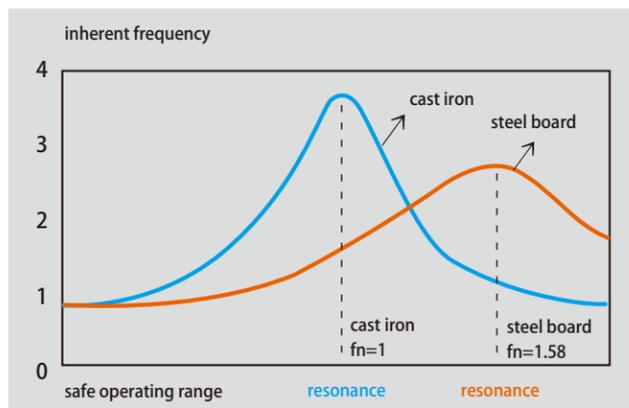


### Better Vibration Absorption

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%.

## Steel-board welding technology

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



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%.

Compared with cast iron materials of the same structure, the natural frequency is obviously increased, which reduces the possibility of resonance in the cutting process and improves the cutting stability and machining precision.



The moving parts, saddle, worktable and headstock 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%.

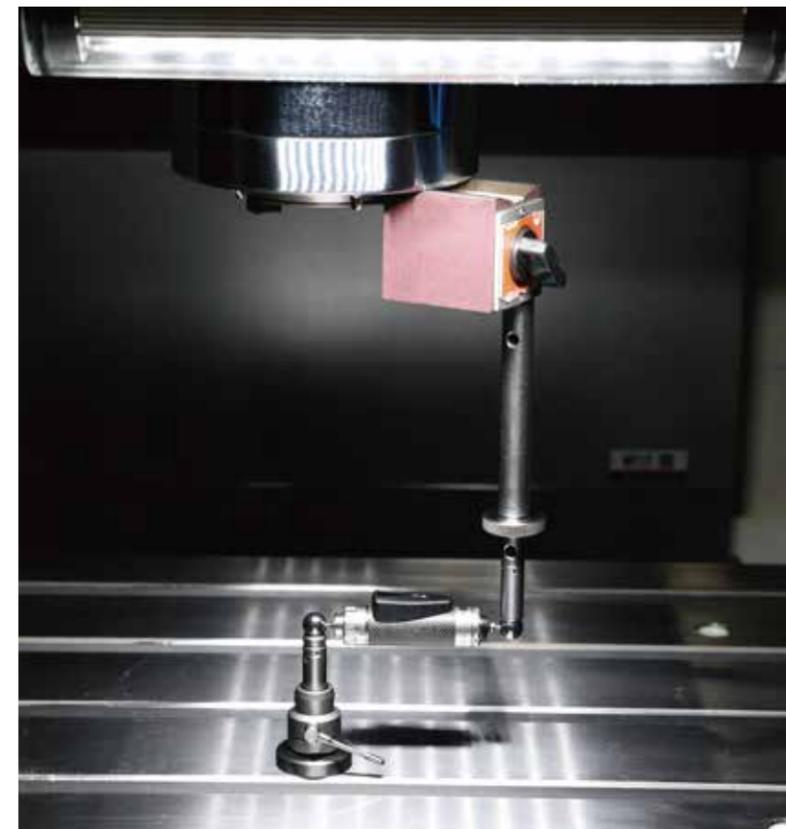
The section shape of the welded parts uses high performance, high stiffness, fully enclosed hollow thin wall, double wall and honeycomb structure.

### Strict test process

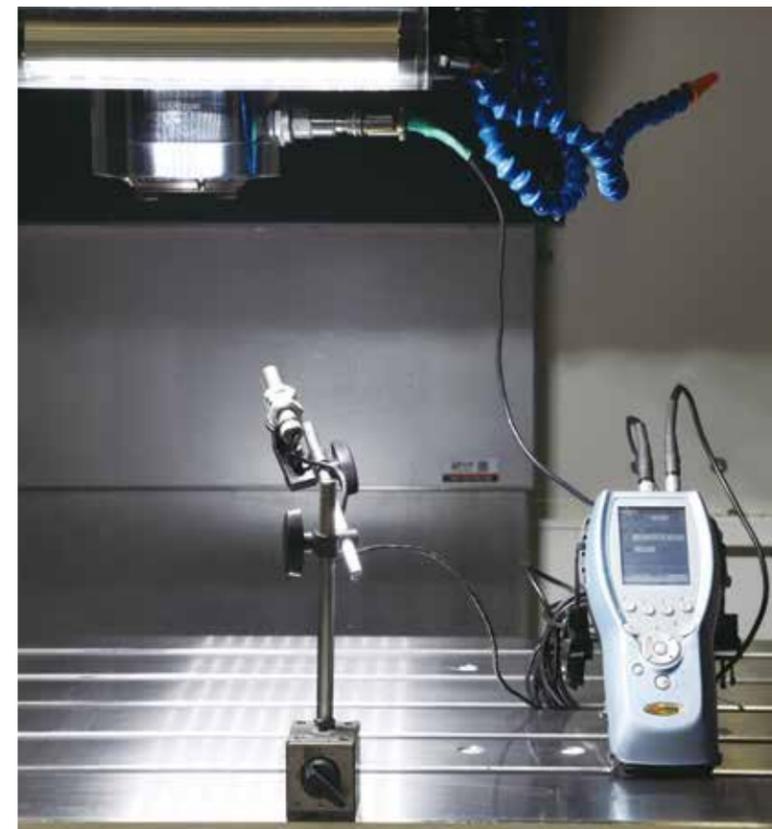
To strictly test and control the whole design and manufacture process of each machine, the company constructs intensive internal control standards. With 45 inspection and monitoring projects, 632 quality control points, 48-hour high-speed full-travel load processing test, tested by ZEISS three-coordinate 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.



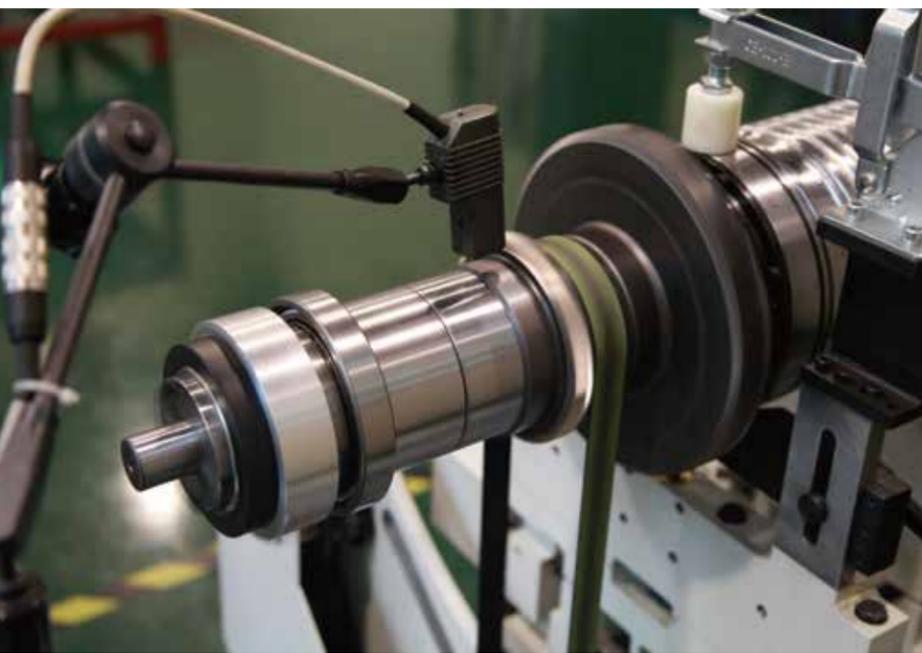
▲  
Three-coordinate Measure



▲  
Ball-bar Test



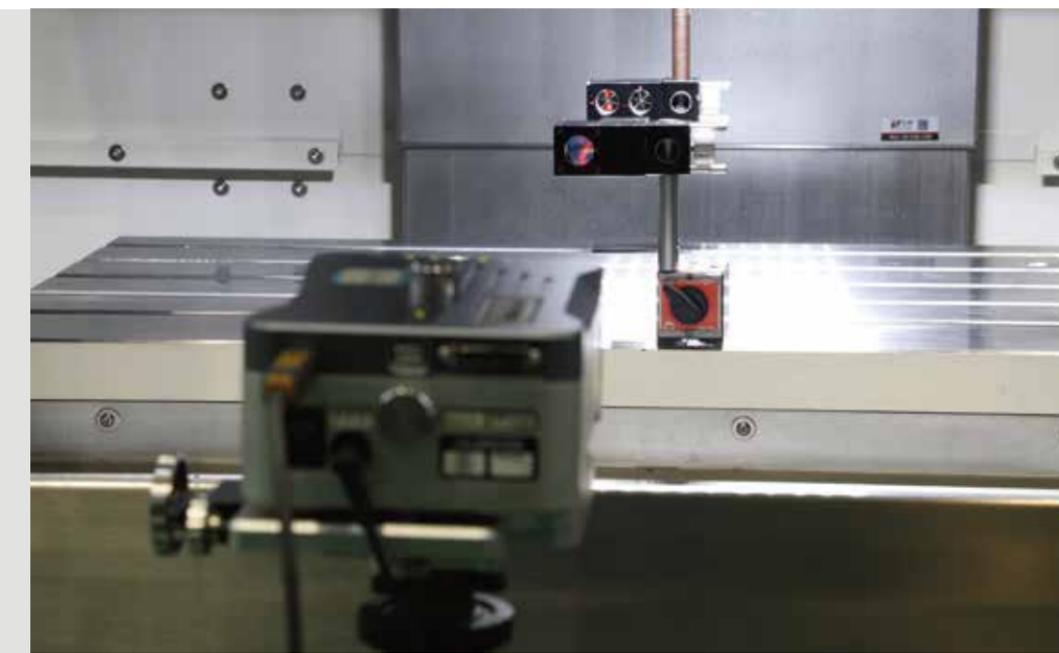
▲  
Dynamic Balance



▲  
Horizontal Dynamic Balance



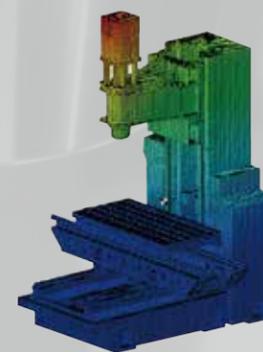
▲  
Electronic leveling



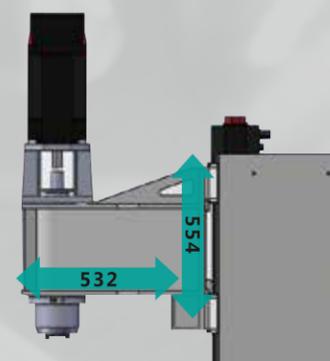
▲  
Laser Interferometer

**VL series vertical machining center**  
 Excellent cost performance, can be widely used in various production sites

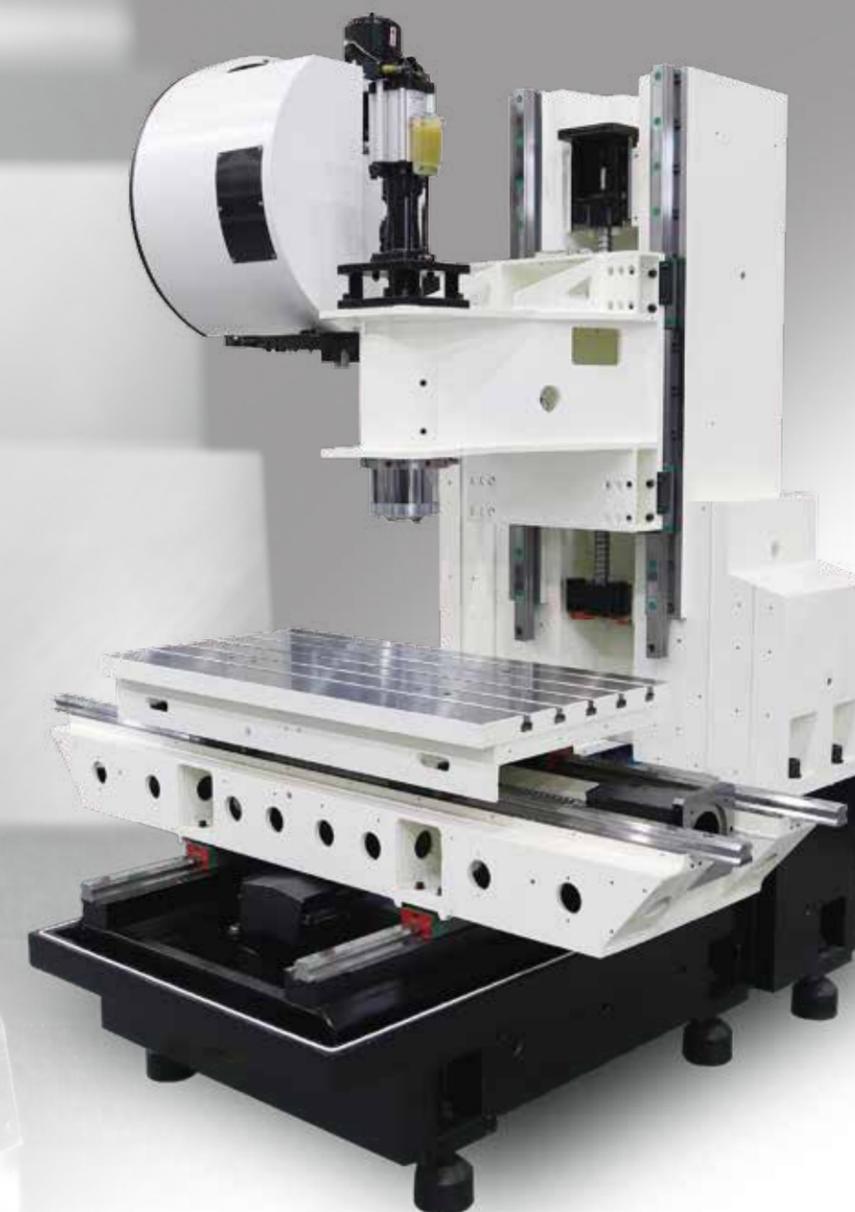
- 1. The machine bed, column and other basic components are made of German high-performance mineral castings. Compared with the traditional high energy consumption iron castings, they have excellent vibration absorption, thermal stability, high rigidity and corrosion resistance. At the same time, the room temperature curing internal stress is small, green and pollution-free, energy saving and environmental protection.
- The saddle, worktable, headstock and other moving parts adopt the German advanced steel plate welding new technology, which has higher rigidity, at the same time reduces the weight of the moving parts, reduces the motion inertia potential energy, and improves the response speed and motion accuracy of the machine tool.
- Z-axis no counterweight, effectively reduce vibration caused by Z-axis reverse
- The feed system adopts pre stretching structure, manual precision scraping, fast moving speed, machine precision and cutting rigidity are better.
- The accuracy of the key parts and the whole machine is strictly controlled by the precision CMM and laser interferometer, so as to ensure the stability and reliability of the geometric accuracy and working accuracy of the machine tool.
- 3-axis linear guideway with large span ,can help for bigger load capacity,higher rigidity and more stability



FEA is used for dynamic simulation and structural analysis of mechanical structures to ensure optimal structural rigidity, mechanical accuracy and machining reliability.



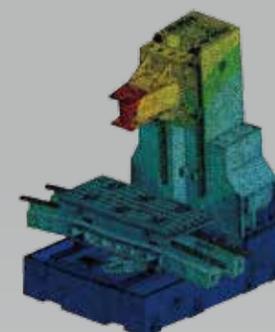
Headstock overhang ratio greater than 1:1, maintain high stiffness, more stable processing.



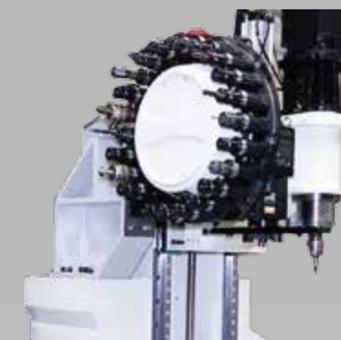
		V850L	V1160L	V1370L	V1160L	V1370L	V1580L	V1690L
X-axis travel	mm	850	1100	1300	1100	1300	1500	1600
Y-axis travel	mm	510	610	710	600	700	810	910
Z-axis travel	mm	510	610	710	600	700	810	810
Worktable size	mm	950*500	1200*600	1400*700	1200*600	1400*700	1700*800	1800*900
Maximum load	kg	500	1000	1300	1000	1300	1500	1600
Spindle speed	rpm	8000/10000	8000/10000	8000/10000	4500	4500	5000	5000
Spindle power	kW	11/15	11/15	11/15	15/18.5	15/18.5	11/15	11/15
Spindle torque	N.m	52.5/95.5	52.5/95.5	52.5/95.5	126/208	126/208	168/305	168/305
Rapid traverse	m/min	36/36/24	36/36/24	30/30/24	36/36/24	30/30/24	20/20/20	20/20/20
Tool Magazine		24	24	24	24	24	24	24
Spindle taper			BT40			BT50		

VMC series vertical machining center  
High performance milling performance  
Provide professional solutions for different needs

- The machine bed, column and other basic components are made of German high-performance mineral castings. Compared with the traditional high energy consumption iron castings, they have excellent vibration absorption, thermal stability, high rigidity and corrosion resistance. At the same time, the room temperature curing internal stress is small, green and pollution-free, energy saving and environmental protection.
- The saddle, worktable, headstock and other moving parts adopt the German advanced steel plate welding new technology, which has higher rigidity, at the same time reduces the weight of the moving parts, reduces the motion inertia potential energy, and improves the response speed and motion accuracy of the machine tool.
- Each axis adopts high torque AC servo motor to drive precision ball screw through German coupling, with zero backlash, good transmission rigidity and fast response speed, which is suitable for high-precision powerful cutting.
- Each guide rail, ball screw and other lubrication points are equipped with centralized automatic grease lubrication system without leakage, which completely solves the problem of machine tool oil leakage and mixed pollution of oil and cutting fluid and reduces maintenance cost.
- The machine occupies a small area and has a large internal space. At the same time, there are many doors that can be opened or disassembled, convenient for operator control and machine inspection.



By FEA analysis and pyramidal pattern design, machine bed gain the optimal structural rigidity, the static rigidity is improved by 46%.



Standard tool magazine is configured with 24 tools (30 tools optional), can increase tool selecting range, realize fast auto change and further shorten the stand-by time when no cutting.



Bed, column reserved closed groove, by adding sealant to prevent water leakage.



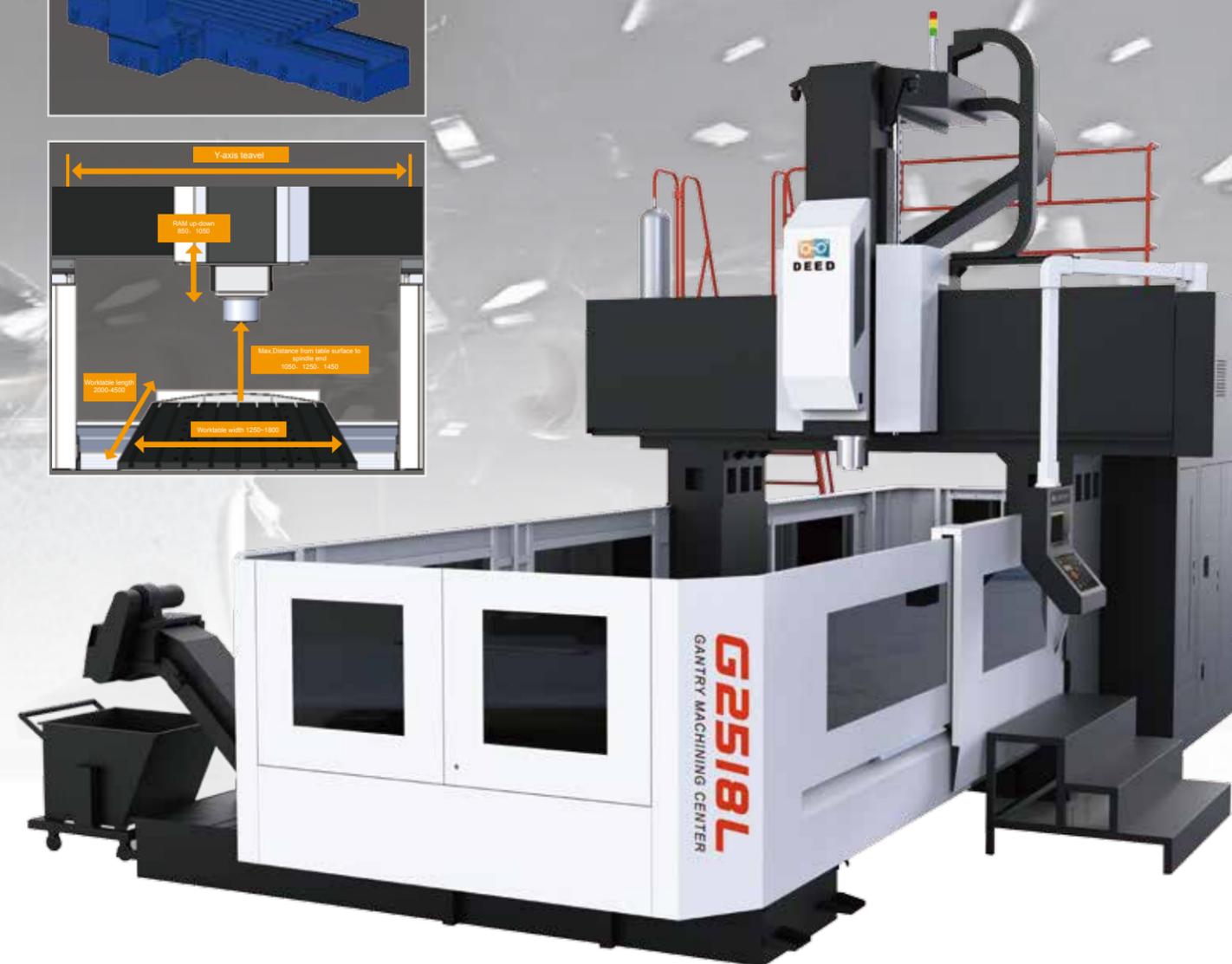
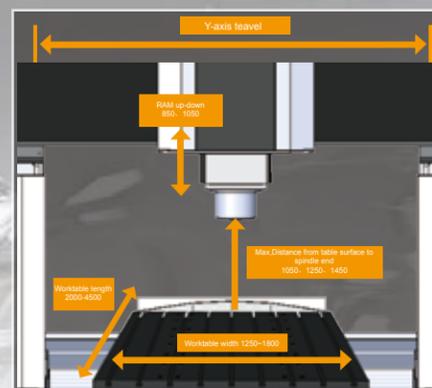
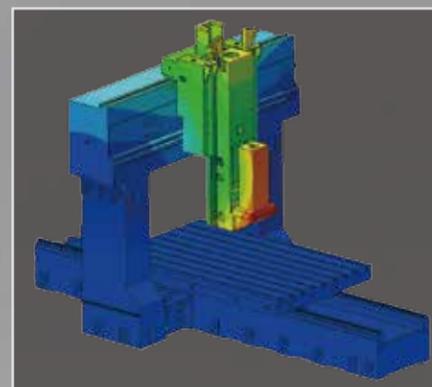
spindle type	speed/rpm	torque/N.m
Direct type spindle BT40/BBT40	10000	52.5/95.5
	12000	70/95.5
	15000 [option]	55/115
Belt type spindle BT50	4500 [option]	168/260
	5300 [option]	146/220
Closest type spindle HSK-A63	20000	30.7/36.8



		VMC50B	VMC50C	VMC60B	VMC60C	VMC70B	VMC70C
X-axis travel	mm	850	850	1100	1100	1400	1400
Y-axis travel	mm	500	500	600	600	700	700
Z-axis travel	mm	600	600	600	600	700	700
Worktable size	mm	950*500	950*500	1200*600	1200*600	1500*700	1500*700
Maximum load	kg	600	600	1000	1000	1200	1200
Spindle speed	rpm	10000(12000)	20000	10000(12000)	20000	10000(12000)	20000
Spindle power	kW	11/15	20/24	11/15	20/24	11/15	20/24
Rapid traverse	m/min	40/40/32(40)	24/24/24	40/40/32(40)	24/24/24	32/32/24 (40/40/32)	20/20/20
Tool Magazine		24	24	24	24	24	24

GL series gantry machining center  
Excellent high rigidity structure  
Cost-effective and full travel processing

- The machine bed and columns are casted by new material and new technology of UHPC from Germany. It has excellent shock absorption, low thermal expansion coefficient, low thermal conductivity coefficient, corrosion resistance, casting at room temperature, low internal stress after solidification.
- The worktable, slider, headstock and other moving parts adopt the German advanced steel plate welding new technology, which has higher rigidity, at the same time reduces the weight of the moving parts, reduces the motion inertia potential energy, and improves the response speed and motion accuracy of the machine tool.
- The three coordinate moving parts are supported by heavy load roller linear guideway, and roller retainer is used to prevent deviation, to realize balanced and stable movement, and ensure the accuracy and stability of the machine tool in long time operation.
- The headstock adopts large section and slider structure, support by heavy load roller linear guideway, strong resistance to spindle cross cutting, so it can achieve Z - axis full travel of the strong cutting.
- Z axis adopts double balance cylinder to eliminate the unbalance moment caused by self- weight.



Specification		G2518L	G3018L	G3518L	G3024L	G3524L
X-axis travel	mm	2600	3100	3600	3000	3500
Y-axis travel	mm	1800	1800	1800	2400	2400
Z-axis travel	mm	850	850	850	850	850
Worktable width	mm	1600	1600	1600	1800	1800
Maximum load	t	7	8	9	8	9
Spindle speed	rpm	6000	6000	6000	6000	6000
Spindle power	kW	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5
Spindle torque	N.m	190/313	190/313	190/313	190/313	190/313
Rapid traverse X/Y/Z	m/min	16/16/16	16/16/16	12/16/16	12/12/12	12/12/12

Specification		G4024L	G4524L	G4028L	G4528L	G5532L	G6532L	G6537L	G8537L	G10537L	G10542L	G12542L	G14542L
X-axis travel	mm	4000	4500	4000	4500	5500	6500	6500	8500	10500	10500	12500	14500
Y-axis travel	mm	2400	2400	3400	3400	3800	3800	4300	4300	4300	4300	4300	4300
Z-axis travel	mm	850	850	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
Worktable width	mm	1800	1800	2200	2200	2800	2800	3500	3500	3500	3500	3500	3500
Maximum load	t	10	11	20	22	28	30	30	32	36	36	36	36
Spindle speed	rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000	4500	4500	4500
Spindle power	kW	15/18.5	15/18.5	22/26	22/26	22/26	22/26	22/26	22/26	22/26	30/37	30/37	30/37
Spindle torque	N.m	190/313	190/313	770/910	770/910	770/910	770/910	770/910	770/910	770/910	996.4/1228	996.4/1228	996.4/1228
Rapid traverse X/Y/Z	m/min	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	10/12/12	10/12/12	8/10/10	8/10/10	8/10/10

## GMC series gantry machining center

### High speed and high precision

#### To meet the complex multi - faceted processing needs

- All news material and technology of UHPC from Germany, with strong shock absorption and thermal stability, ensure the stability of physical and mechanical properties. Stable heavy bed and column, reduce the distortion, enhance the stability of the machine.
- The design of lightweight moving parts and high rigid structure can satisfy the static rigidity and dynamic fast response, which is more conducive to improving the positioning accuracy and machining performance of the machine tool.
- High rigidity square slider, cross section of 400\*400mm or 450\*450mm, can achieve z axis full travel strong cutting.
- High rigidity double-layer enclosed box structure and stepped guide rail can reduce the deformation of beam due to stress concentration, ensure the machining accuracy of workpiece.
- Closed-end automatic head-magazine can be selected, each head can be automatically exchanged, can also be selected with the vertical horizontal tool-magazine, improve the machine tool automation ability, realize automatic multi-faceted processing.



Specification		GMC2016L	GMC2516L	GMC3016L	GMC3516L	GMC4016L	GMC2020L	GMC2520L	GMC3020L	GMC3520L	GMC4020L	GMC3024L	GMC3524L	GMC4024L	GMC4524L	GMC3028L
X-axis travel	mm	2000	2500	3000	3500	4000	2000	2500	3000	3500	4000	3000	3500	4000	4500	3000
Y-axis travel	mm	1600	1600	1600	1600	1600	2000	2000	2000	2000	2000	3000	3000	3000	3000	3600
Z-axis travel	mm	850	850	850	850	850	850	850	850	850	850	850	850	850	850	1250
Worktable width	mm	1250	1250	1250	1250	1250	1600	1600	1600	1600	1600	1800	1800	1800	1800	2600
Maximum load	t	5	6	8	9	10	7	9	11	13	14	15	16	17	18	17
Spindle speed	rpm	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	6000
Spindle power	kW	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26
Spindle torque	N.m	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	560/660	770/910
Rapid traverse X/Y/Z	m/min	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	12/12/12

Specification		GMC3528L	GMC4028L	GMC4528L	GMC5028L	GMC5528L	GMC6528L	GMC5532L	GMC6532L	GMC8532L	GMC10532L	GMC5537L	GMC6537L	GMC8537L	GMC10537L
X-axis travel	mm	3500	4000	4500	5000	5500	6500	5500	6500	8500	10500	5500	6500	8500	10500
Y-axis travel	mm	3600	3600	3600	3600	3600	3600	4000	4000	4000	4000	4500	4500	4500	4500
Z-axis travel	mm	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250	1250
Worktable width	mm	2600	2600	2600	2600	2600	2600	2800	2800	2800	2800	3500	3500	3500	3500
Maximum load	t	18	20	22	24	28	32	28	32	36	40	28	32	36	40
Spindle speed	rpm	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
Spindle power	kW	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26
Spindle torque	N.m	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910	770/910
Rapid traverse X/Y/Z	m/min	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	12/12/12	10/12/12	12/12/12	12/12/12	12/12/12	10/12/12

## Vertical tapping processing center

- The machine bed and column are casted by new material and new technology of UHPC from Germany. Compared with the traditional iron castings, it has excellent shock absorption, low thermal expansion coefficient, low thermal conductivity coefficient, corrosion resistance, casting at room temperature, low internal stress after solidification.
- The slider, headstock, worktable and other moving parts adopt the German advanced steel plate welding new technology. Compared with the traditional iron castings, they can get higher rigidity, lighter moving parts, less movement inertia, then the machine can get better response rate and movement precision.
- The worktable moves along the Y-axis on the bed, effectively avoid the defects of mobile table structure. For example, the problem of excessive response under small load, and the problem of delayed response under large load.
- The slider moves along the X-axis on the beam, and the headstock moves along the z-axis on the slider, which effectively avoids the overhang of the moving parts and has higher rigidity and precision.
- 3-axis adopts high-precision silent C3 level lead screw with low friction loss and high positioning accuracy. The lead screw is powered by high-torque ac servo motor directly connected with the precision coupling.



VT60B立式钻攻中心

X-axis travel	mm	1100	Maximum load	kg	400	positioning	mm	0.008
Y-axis travel	mm	600	Spindle speed	rpm	12000	Repeatability	mm	0.005
Z-axis travel	mm	350	Spindle power	kW	3.7/7.5	Acceleration		1g
Spindle nose to table	mm	250-600	Spindle torque	N.m	23.6/47.7	Tool magazine capacity	pcs	21
Worktable size	mm	1200*600	Rapid traverse	m/min	60/60/60			

## PBC Boring and milling machining center

- The servo motor is used to control the double anti-backlash gear box to drive the imported precision ring gear for rotary motion, and it is equipped with an angle grating ruler to achieve any indexing of the turntable  $\pm 6''$  high positioning accuracy and is equipped with a four-point positioning device, making the turntable  $90''$  Indexing meets the high-precision positioning requirements of  $\pm 4''$ .
- The X / Y / Z servo axis uses a servo motor directly connected to a precision planetary gearbox to drive a large diameter, high-precision double nut preloaded ball screw, and the machine tool guide adopts a roller linear rolling guide pair. Among them, the X axis and the z axis use three guide rails. The design guarantees high load and high stability of the machine.
- The spindle adopts high-precision SKF spindle special bearings, equipped with technologies such as spindle outer cooling and spindle oil thin oil lubrication cooling, which ensure the spindle's long-term high-precision operation. The boring shaft is made of advanced materials and after careful heat treatment, it provides w-axis rigidity and accuracy retention.
- Temperature sensors are designed at the front and rear ends of the spindle bearing. The real-time monitoring of the spindle bearing temperature can prevent the bearing from being damaged due to the high bearing temperature, and can also compensate for the thermal extension of the boring shaft.

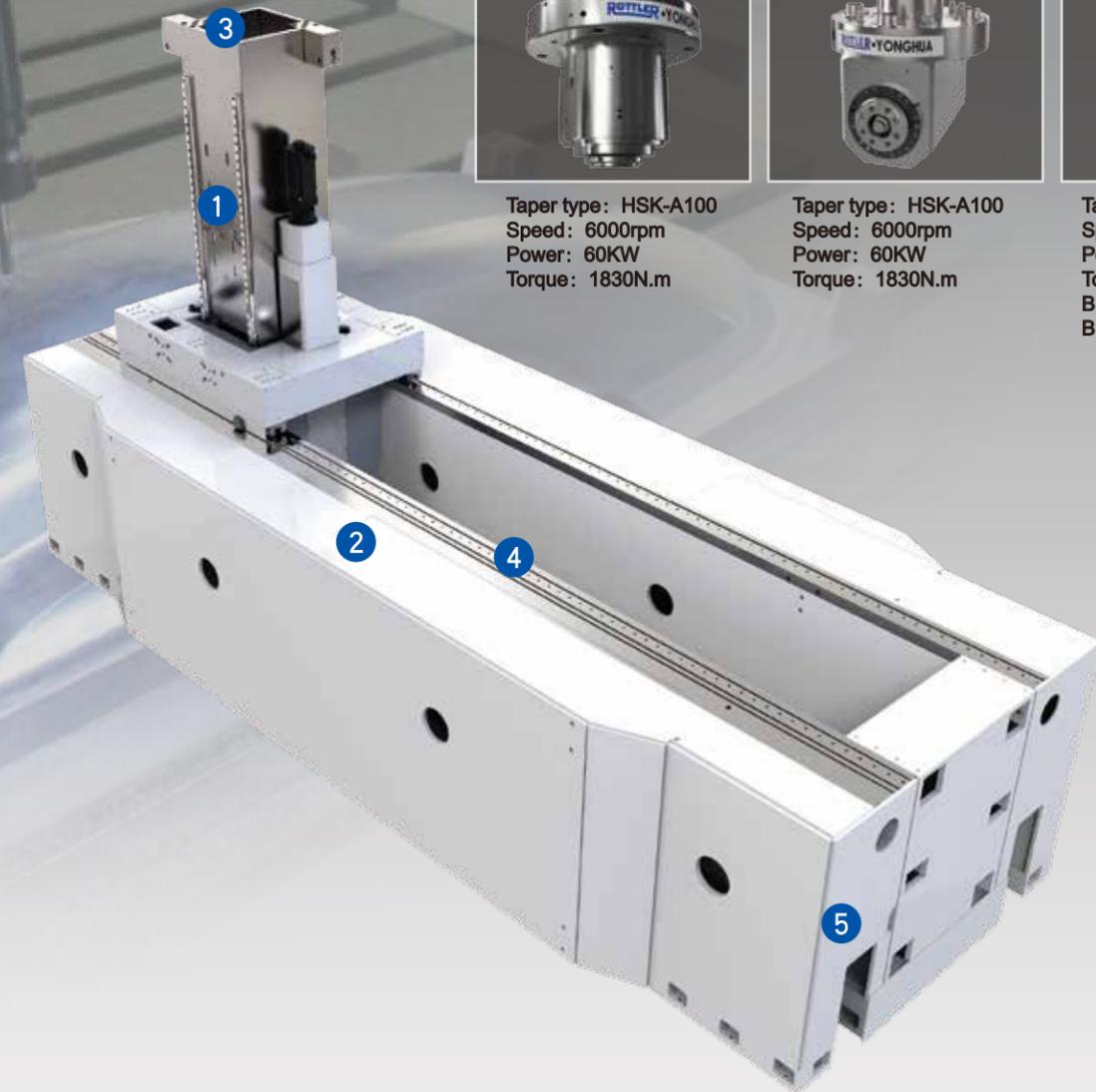
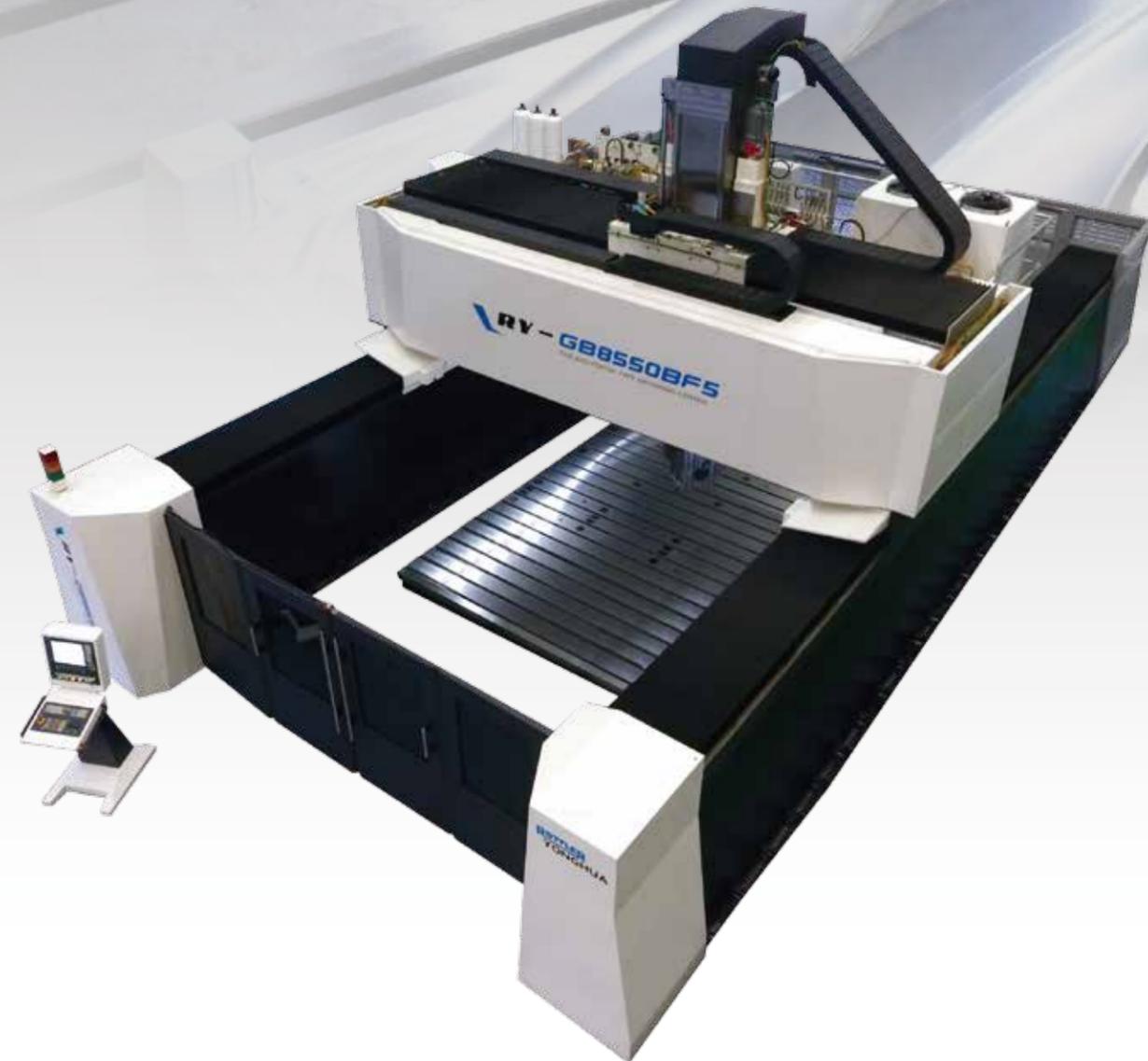


		PBC1120	PBC1330	PB1330E	PBC1640	PB1640E	HB1116	HB1316
X-axis travel	mm	2000	3000	3000	4000	4000	1600	1600
Y-axis travel	mm	1600	2000	2000	2500	2500	1200	1200
Z-axis travel	mm	1200	1600	1600	2000	2000	1200	1200
W-axis travel	mm	600	800	800	1000	1000	600	600
Boring axis diameter	mm	$\phi 110$	$\phi 130$	$\phi 130$	$\phi 160$	$\phi 160$	$\phi 110$	$\phi 130$
Size	mm	1200*1400	1800*2000	1800*2000	2000*2200	2000*2200	1200*1400	1200*1400
Maximum load	kg	8000	25000	12000	30000	18000	6000/3000	6000/3000
Spindle speed	rpm	3000	2500	1200	1400	1000	2000/1200	2000/1200
Spindle power	kW	18.5/22	22/30	22/30	37/51	37/51	22/26	22/26
Spindle torque	N.m	2000	3000	3000	4000	4000	1500	2000
Location Precision		$\pm 6''$	$\pm 6''$	$4^{\circ}90' \pm 6''$	$\pm 8''$	$4^{\circ}90' \pm 8''$	$\pm 6''$	$\pm 6''$
Repeated Location Precision		$\pm 3''$	$\pm 3''$	$4^{\circ}90' \pm 3''$	$\pm 4''$	$4^{\circ}90' \pm 4''$	$\pm 3''$	$\pm 3''$



**GB series 5-axis machining center**  
 Specially designed for high precision machining and high contour precision machining

- 1 The C-axis is hidden inside the headstock and is driven by a torque motor, which expands the effective machining space of the Z axis and ensures the consistency of C-axis positioning accuracy.
- 2 The double-beam box-in-box structure ensures cutting rigidity in all directions and symmetry after thermal deformation, so that the machine tool can maintain consistent cutting performance and stable machining accuracy during continuous commutation processing.
- 3 The 600 \* 600mm large cross section of the headstock ensures that even when the headstock is working with a large overhang, it can still maintain a strong cutting rigidity.
- 4 Each X / Y axis is equipped with 4 roller linear guides, and is equipped with high-precision grating ruler, which has greater dynamic static load capacity and stronger motion resistance.
- 5 The X / Y axis is equipped with two sets of servo motors, and the two-sided electronic anti-backlash synchronous drive is used to maintain the consistency of high-speed movement.



Taper type: HSK-A100  
 Speed: 6000rpm  
 Power: 60KW  
 Torque: 1830N.m



Taper type: HSK-A100  
 Speed: 6000rpm  
 Power: 60KW  
 Torque: 1830N.m



Taper type: HSK-A63  
 Speed: 12000rpm  
 Power: 56KW  
 Torque: 89N.m  
 B axis swing angle: -110°/+5°  
 B axis speed: 6rpm

Worktable		
Worktable size	mm	3500*9000
Maximum load	kg	5000/m <sup>2</sup>
Width between columns	mm	5000
Beam moving (X-axis)		
longitudinal Travel	mm	6500
Feed rate	mm/min	10~20000
Rapid Traverse	mm/min	28000
C-axis		
C-axis Rotary Speed	rpm	12
C-axis Rotary Angle		±185°

Cross movement of saddle (Y-axis)		
Cross Travel	mm	4000
Feed rate	kg	10~20000
Rapid Traverse	mm	28000
Spindle box (Z-axis)		
Vertical travel	mm	1500
Feed rate	mm/min	10~15000
Rapid Traverse	mm/min	20000
B-axis		
B-axis Rotate Speed	rpm	6
B-axis Rotate Angle		-110°/+5°

**VB series vertical/5-axis machining center**  
 Convenient operation, excellent 5-axis machining capability

- The overall gantry structure has good rigidity. The Y-axis adopts a dual-drive design to ensure the balance of high-speed movement. The box-type spindle box structure brings higher stability of large torque output.
- The A / C axis is directly driven by a torque motor, eliminating the need for reduction gears, greatly improving the running accuracy, increasing the rotation speed, and having a hydraulic clamping system, which has a large locking torque and can well guarantee the realization of five-axis machining.
- The X / Y / Z axis is equipped with a grating ruler, and the A / C axis is equipped with a ring scale, which ensures that the machine tool can improve the precision and positioning accuracy of the workpiece under high-speed moving conditions.
- VB63F5 adopts double rocker structure to ensure five-axis machining or positioning accuracy at any angle, so as to expand the application field of machine tools and meet complex processing requirements.
- Equipped with a chain-type in-line tool magazine, which is directly driven by a servo motor, with high speed blocks and high positioning accuracy, which greatly facilitates customers' processing requirements for different processes.  
 Tool sleeve running speed: 150 / min  
 Tool capacity: 40



Travel		
X-axis travel	mm	800
Y-axis travel	mm	1200
Z-axis travel	mm	600
A-axis	mm/min	±135°
C-axis	mm/min	连续360

Travel		
Table dimension	mm	Φ 660
Max load	kg	800
Spindle speed	mm	18000
Rapid traverse speed X/Y/Z	mm/min	60/60/55
Rapid traverse speed A/C	mm/min	60/60



**Service Guarantee**  
 24H/7D non-stop service



- Quick-maintenance guarantee:
- 24/7 service hotline: 400-113-6699
  - quick response to customer failure within 2 hours
  - on-site service within 24 hours in servicing range
  - lifelong after-sale service