

Marketing Network



ZHEJIANG HEKE INTELLIGENT EQUIPMENT CO.,LTD

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Note: There may be errors between the description, data and actual products of all series of products in this catalogue.
Please refer to the actual products. No further notice will be given for any change.



Integrity • Quality • Cooperate • Serve • Win-win

About Us

Zhejiang Heke Intelligent Equipment Co., Ltd. is a high - tech enterprise which integrates R & D , manufacturing and sales of high - quality , high precision and high - intelligence CNC machinery and equipment and industrial automation.

The company has a machine tool R & D studio in Taiwan , and employs a professional R & D team mainly composed of German engineers to develop and design. The vertical precision machining center produced by the company realizes the perfect integration of European advanced technology and concepts with mainl and manufacturing technology . The company has advanced testing equipment imported from Germany , Japan and other countries to ensure the accuracy and quality of each machine tool . The company operates strictly in accordance with the modern enterprise management mode , realizing the whole process information tracking of each machine tool from design - production - product inspection - sale - service . All series of products have obtained So9001 quality system certificate and CE certificate . The company upholds the business philosophy of " integrity , quality , cooperation , service , win - win " , perfect sales service team and sales service team , guided by the concept of " customer first " , keep close contact with customers and provide technical support at any time . All Heko people make every machine tool with their heart and meet every challenge with a full spirit . We sincerely look forward to cooperating withevery customer in good faith , achieving win - win situation with first - class quality and first - class service .



Vertical Machining Center Machine

VCN-6
XYZ-axis travel
600*400*450mm

VCN-9
XYZ-axis travel
800*550*550mm

VCN-9Z
XYZ-axis travel
820*550*600mm

VCN-10
XYZ-axis travel
1000*600*600mm

VCN-11
XYZ-axis travel
1100*600*600mm

VCN-12
XYZ-axis travel
1300*700(二轨)*700mm

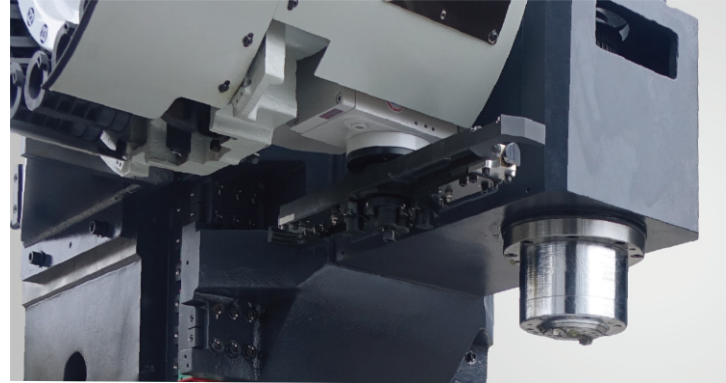
VCN-13
XYZ-axis travel
1300*700(四轨)*700mm



Perfect Structural Design

Steady body structure is the concrete guarantee of rigidity and stability

- Spindle air blast
- Heat exchanger
- Working air blast (Spindle nose)
- Fully enclosed splash guard
- Working lamp
- Tool box with tools
- Leveling screws and blocks
- Operation status indication lamp
- Rigid tapping
- Coolant system
- Operation manual and programming manual
- Automatic lubrication system
- Mpg handwheel
- RS -232 interface
- Telescopic guards on 3 axes
- Air gun and coolant gun



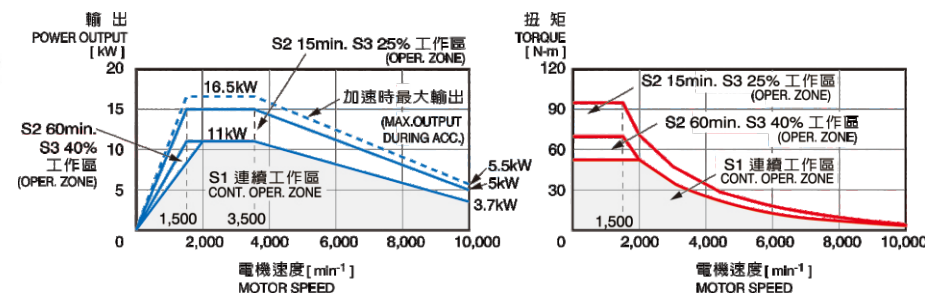
HIGH
RIGIDITY
SPINDLE

Specific Guarantee for Machining Quality

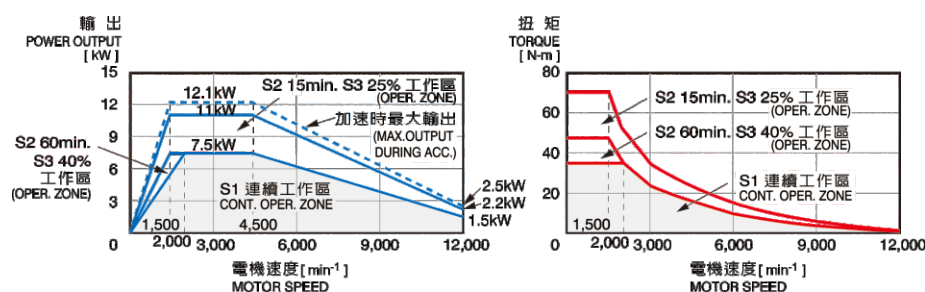
- The spindle runs in class P4 extra high precision bearings , making the machine ideal for various precision machining and high speed cutting
- The spindle body and the spindle motor are subjected to rigorous dynamic test in - house so as to achieve the maximum stability and extreme cutting capabilities



Belt-Drive Spindle 10,000 rpm

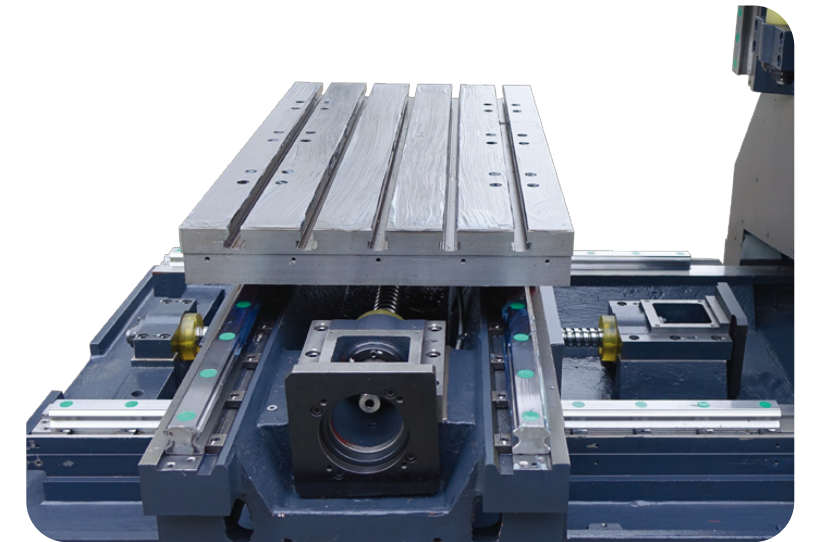


Direct-Drive Spindle 12,000 rpm



THREE AXES
FEED RATES

48 M/min



High Precision Axis Feed System

- High precision linear guide ways on three axes provide the best control and moving efficiency .
- Three axes are transmitted through class C3 high precision ball screws which have been pretensioned and preloaded
- Three axes are mounted with precision P class , heavy duty ball type or roller type linear guide ways with extra wide blocks that upgrade the loading capacity of the table
- The use of high precision nut that rotates ball screw that provides outstanding rigidity in heavy cutting , thereby ensuring high machining accuracy and long service life of ball screw .

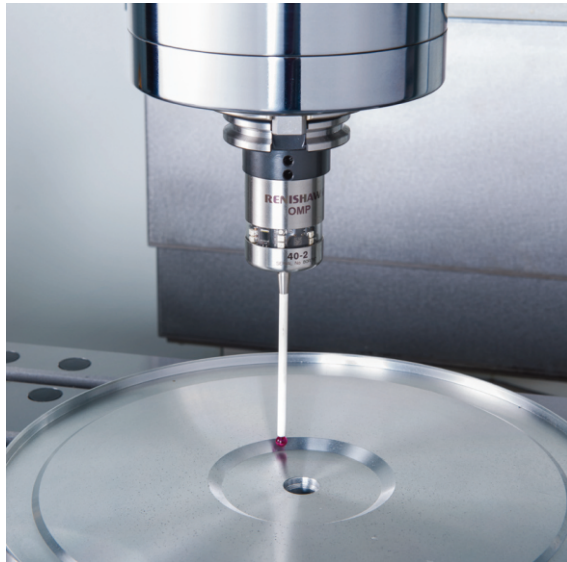


High Speed Automatic Tool Changer

- Available to equip with a 24 tools arm type tool changer. The sufficient tool numbers will meet various machining requirements.
- Standard random tool selection function will lead to shortened tool change time while increasing machining efficiency.

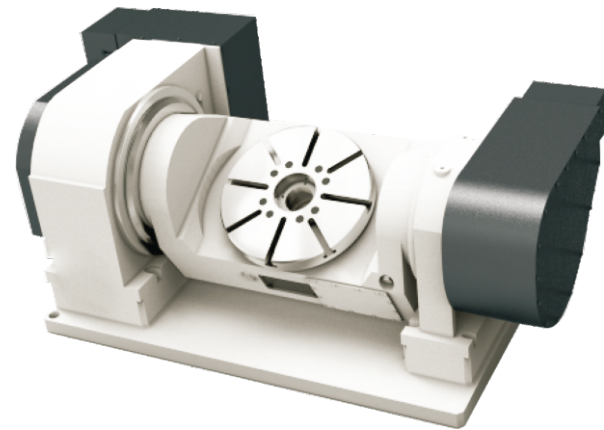
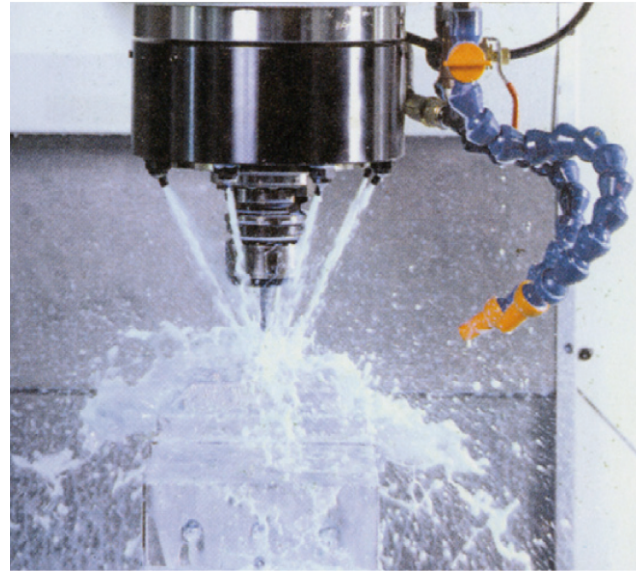
Workpiece Measurement Device (Opt.)

1. It performs automatic measurement to reduce machine down time and reduce human error.
2. Automatic compensation for workpiece coordinate and workpiece.
3. Upgrading product quality while lowering defect percentage.
4. Reduce waste.



Coolant Through Spindle (Opt.)

The coolant through spindle is ideal for deep hole machining that not only fast removes chips, but also reduces heat on the tool and workpiece during cutting.



Tool Length Measurement Device (Opt.)

With the automatic tool length measurement device, the measured values of tool length will be automatically input into the controller for compensation.



For five-axis machining, compact structure, high dynamic response, large acceleration, high-speed continuous machining.



User-Friendly Operation Panel

- The centralized operation panel is a user-friendly design with beautiful appearance.
- Various controllers to select: Mitsubishi, Heidenhain, Fanuc, Siemens and Fagor.



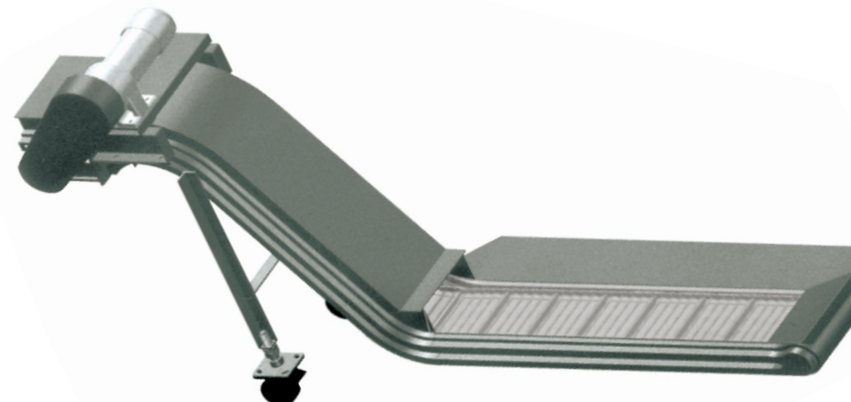
20 Bar High Pressure Coolant Pump

The coolant through spindle system features 25μm of cutting fluid filter accuracy.



4th Axis Rotary Table (Opt.)

With the use of the 4th axis rotary table, it allows to perform multi-sides machining with only one setup. It helps to reduce non-cutting time due to workpiece loading/unloading, making it suitable for high precision parts machining requiring high efficiency and high accuracy.



Link Chain Type (Opt.) Chip Conveyor

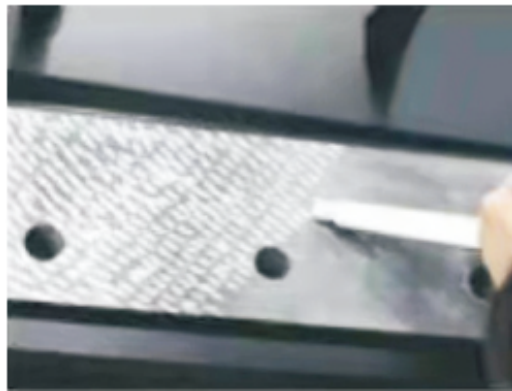
VCN-9Z

XYZ-axis travel
820*550*600mm

Mechanical properties

- ◆ Large span column structure ensures the best structural rigidity of the whole machine
- ◆ Wide base design, heat treatment hardened and tempered
- ◆ High quality cast iron construction
- ◆ The spindle adopts P4 ultra-precision bearings, suitable for precision machining and high speed cutting.
- ◆ The headstock adopts six-slide high-precision line rail
- ◆ The three axes adopt C3 precision ball screw, and the ball screw is pre-drawn.

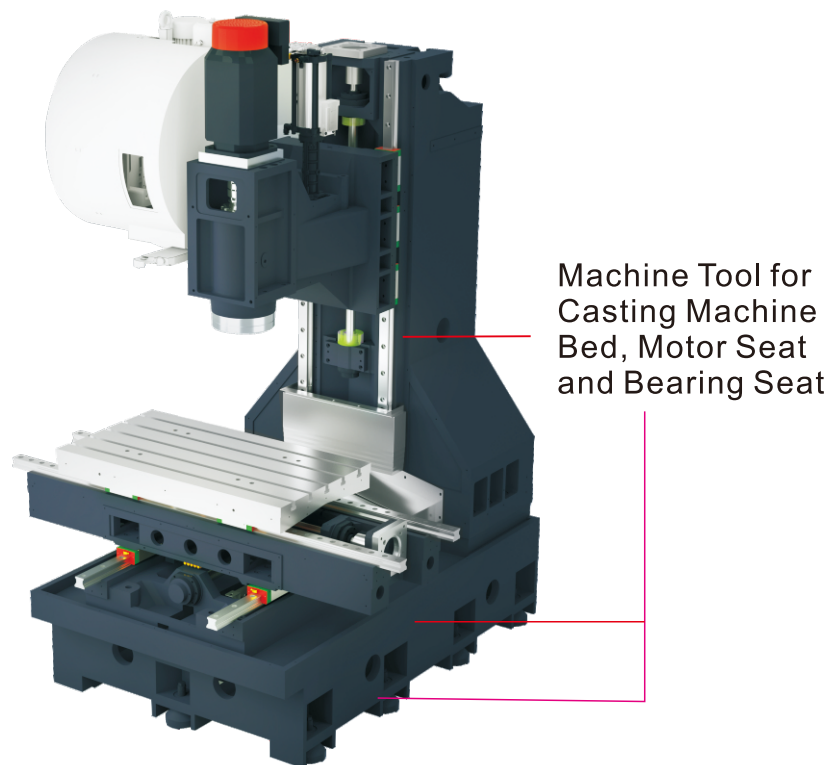
The joint of each component adopts traditional spade process to ensure the accuracy and durability of the product.



Standard :

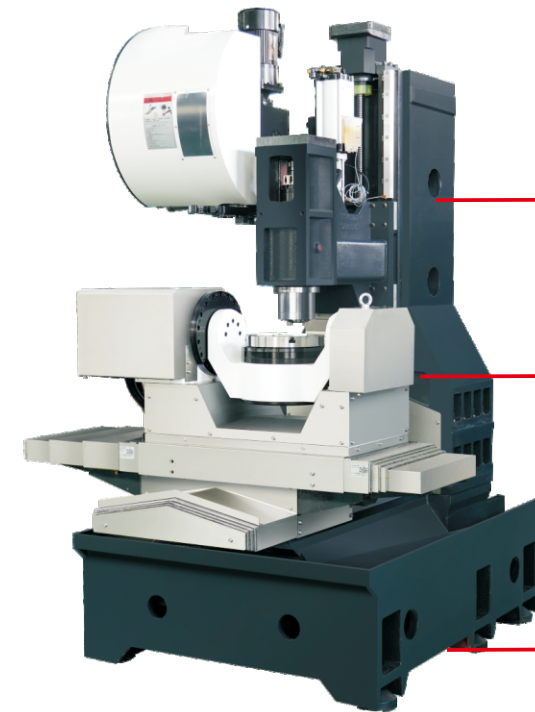
- ◆ Main shaft oil cooler
- ◆ Spindle ring injection
- ◆ Spindle 10000 rpm belt type

Matching: ◆ Water discharge from spindle center ◆ Numerical control turret
◆ Spindle 12000rpm Direct coupling ◆ Electrical cabinet cooling machine ◆
BBT40 spindle ◆ Tool measurement ◆ grating ◆ On-line detection



Machine Tool for
Casting Machine
Bed, Motor Seat
and Bearing Seat

V6C Five-axis machine



The herringbone column with wider span of the joint surface improves the rigidity of the machine.

Equipped with a 5-axis cradle turntable, it can automatically, efficiently and accurately complete the processing of complex processes including inclined plane, curved surface and so on.

Adopt HT300 high grade resin sand mould casting, anneal treatment and vibratory time effect treatment, eliminate internal stress.

Specifications And Parameters

Parameter Name	parameter	Parameter Name	parameter
Three-axis stroke XYZ	500*510*450mm	A axis maximum speed	60rpm
Workbench(long*wide)	φ260mm	A-axis rated torque	259N.m
Maximum workpiece load and size	60kg, Maximum allowable workpiece rotation diameter φ400	A-axis positioning accuracy	±10 "
Spindle Specifications	BT40-120-proboscis direct	A-axis repeat positioning accuracy	5 "
Distance from spindle end face to table	37-487mm (Column heightening200)	C-axis stroke (rotation)	360 °
Triaxial screw	XY: φ28 Z: φ32	C axis maximum speed	386rpm
Triaxial rail	XY Ball 30#, Zaxis35#Ball	C Shaft Rated Torque	122N.m
Knife storehouse	BT40-24T	C-axis positioning accuracy	±10 "
Five Axis Cradle Specifications	DRT260-400	C axis repeat positioning accuracy	5 "
A axis stroke (tilt axis)	±120 °	Brake mode	Air brake

Model parameter	VCN-6	VCN-9	VCN-9Z
Workbench(long*wide)	800×400mm	1000×550mm	1000×550mm
T-groove(number*width)	3×14×80mm	5×18×100mm	5×18×100mm
Maximum load of worktable	400kg	600kg	700kg
X-axis travel	600mm	800mm	820mm
Y-axis travel	400mm	550mm	550mm
Z-axis travel	450mm	550mm	600mm
Spindle nose end to working table	150-600mm	140-690mm	130-730mm
Spindle center to column guide surface	450mm	590mm	590mm
Spindle type	BT40	BT40	BT40
Spindle motor	5.5/7.5kw	7.5/11kw	11/15kw
Belt spindle speed	8000rpm	10000rpm	10000rpm
Direct-junction spindle roation(optional)	12000rpm	12000rpm	12000rpm/15000rpm
Cutter storage capacity	16T/20T(Knife Arm)	24T(Knife Arm)	24T(Knife Arm)
Maximum tool diameter	Φ80	Φ80	Φ80
Airborne knife diameter	Φ120	Φ150	Φ150
X/Y/Z Fast moving speed	48M/min	48M/min	48M/min
Positioning accuracy	±0.005/300mm	±0.005/300mm	±0.005/300mm
Repeated positioning accuracy	±0.002/300mm	±0.002/300mm	±0.002/300mm
Source of barometric pressure	6-8kg/cm²	6-8kg/cm²	6-8kg/cm²
Electricity capacity	15KVA	20KVA	25KVA
Mechanical weight	3500kg	5500kg	6000kg
Coverage (W*D*H)	2100×1900×2300	2600×2250×2450	2600×2350×2450

HQCSW®

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VCN-10	VCN-11	VCN-12	VCN-13
1200×600mm	1200×600mm	1500×700mm	1500×700mm
5×18×100mm	5×18×100mm	5×18×145mm	5×18×145mm
700kg	800kg	900kg	1000kg
1000mm	1100mm	1300mm	1300mm
600mm	600mm	700mm(Second track)	700mm(Four Tracks)
600mm	600mm	700mm	700mm
150-750mm	120-720mm	140-840mm	150-850mm
672mm	650mm	752mm	762mm
BT40 (Φ160)	BT40 (Opt BT50)	BT40 (Φ150)	BT50 (Φ155)
11/15kw	11/15kw	11/15kw	15/18.5kw
10000rpm	10000rpm	8000rpm	6000rpm
12000rpm	12000rpm	12000rpm	8000rpm(belt)
24T(Knife Arm)	24T(Knife Arm)	24T(Knife Arm)	24T(Knife Arm)
Φ80	Φ80	Φ80	/
Φ150	Φ150	Φ150	/
48M/min	36M/min	36M/min	36M/min
±0.005/300mm	±0.005/300mm	±0.005/300mm	±0.005/300mm
±0.002/300mm	±0.002/300mm	±0.002/300mm	±0.002/300mm
6-8kg/cm²	6-8kg/cm²	6-8kg/cm²	6-8kg/cm²
25KVA	25KVA	30KVA	35KVA
6000kg	7000kg	8500kg	8800kg
2800×2350×2450	2950×2350×2450	3600×2600×2665	3600×2600×2665

Note: Due to the continuous upgrading of products, the actual product shall prevail, subject to change without notice

High Speed Drilling Center VTC Series

Mechanical properties

- ◆ HT300 Advanced Resin Sand Moulding Castings
- ◆ Wide base design, after annealing treatment and vibration aging to eliminate internal stress
- ◆ The spindle adopts P4 ultra-precision bearings, suitable for precision machining and high speed cutting.
- ◆ Three axes adopt Japanese "THK" C3 precision ball screw



Direct connection, high precision, high rigidity spindle head

Spindle speed up to 20000 rpm, with low power loss, low vibration, low noise, low temperature rise, etc. to ensure high precision processing and high quality rigid tapping

The spindle can realize stepless speed regulation within the range of its rotation speed to ensure the safety and reliability of the spindle clamping tool. The spindle is equipped with non-contact switch feedback, which can realize the automatic detection of the clamping and loosening of the tool.

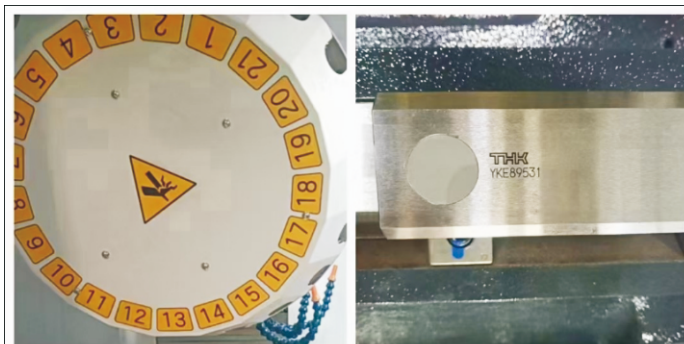


No pause ATC

High speed action and optimal exchange with BT30 spindle and efficient servo tool library

The traditional cam motor is replaced by servo motor drive, which can achieve no interval stop and quickly exchange the farthest distance tool. Through the optimization of the tool magazine to improve the perfect match with the Z axis movement, the cutting to cutting tool change time is greatly shortened.

High output spindle motor

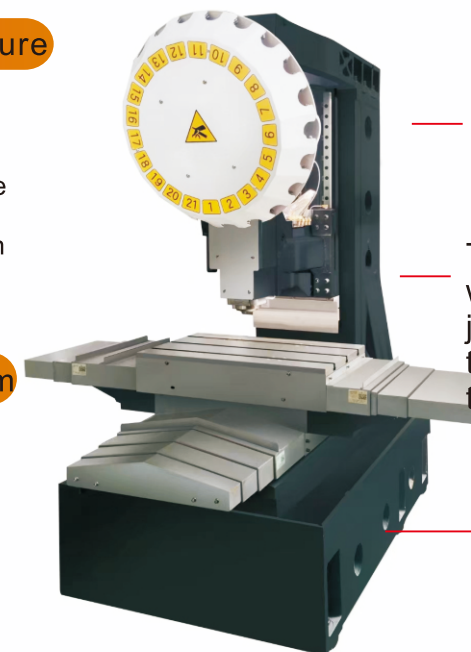


High rigidity mechanical structure

The overall layout of the machine is vertical frame structure, the base is wide and solid, the column is box-shaped structure, the saddle structure is solid and can bear the heavy load during processing, and it can maintain no vibration and deformation during high-speed displacement.

Highly responsive servo system

The pursuit of cutting capacity of the servo motor is manifested in: the use of high-rigidity mechanical structure and high-power spindle motor, which greatly expands the cutting capacity range of high-efficiency machining and heavy cutting.



Adopt HT300 high grade resin sand mold casting, anneal treatment and vibration time effect treatment to eliminate internal stress.

The herringbone column with wider span of the joint surface improves the rigidity of the machine tool

Extra wide one-piece base provides stable load support

Standard : ◆ Spindle ring injection ◆ Spindle 20000 rpm direct coupling

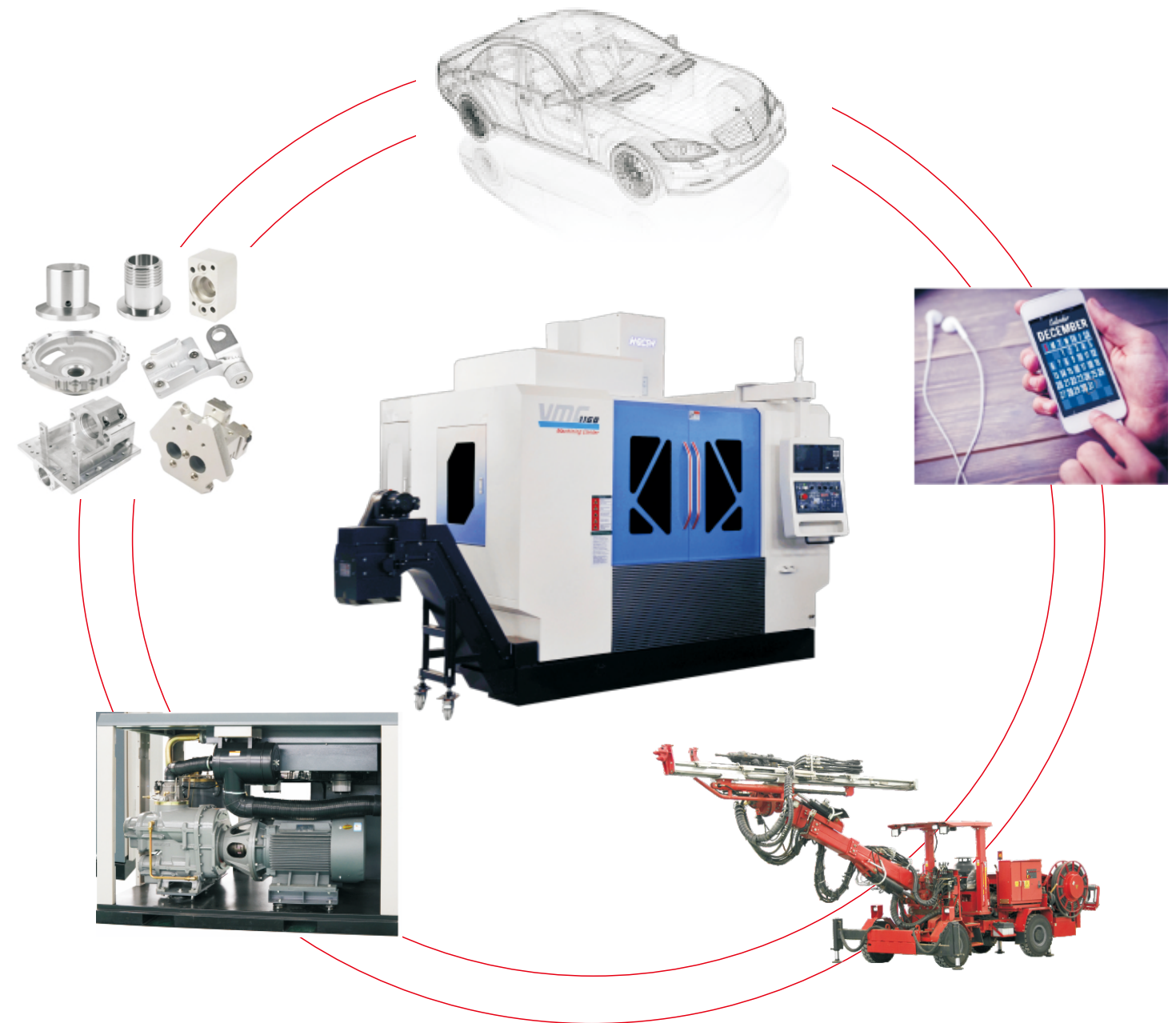
Matching : ◆ Water discharge from spindle center ◆ Numerical control turret ◆ Chain plate chip remover
◆ Chain plate chip remover ◆ Main shaft oil cooler

Project	Name	Unit	VTC-6	VTC-7
Workbench	Workbench size X direction	mm	700	800
	Y direction	mm	420	420
	(number of slots/slot width/spacing)	mm	3/14/125	3/14/125
	Maximum load capacity of workbench	kg	250	300
Scope of work	X-axis travel	mm	600	700
	Y-axis travel	mm	400	450
	Z-axis travel	mm	330	300
	Distance from spindle nose to work surface	mm	150-480	150-450
	Distance from spindle center to column guide surface	mm	464	464
Spindle	Spindle servo motor	kw	3.7/5.5	7.5/11
	spindle maximum speed	rpm	20000	12000
	Spindle taper hole	7:24	BT30	BT40
Feed	Rapid feed rate (X/Y/Z)	m/min	48/48/48	48/48/48
	cutting feed rate	mm/min	5-15000	5-15000
Tool magazine	Tool magazine capacity	pcs	21	20
Guide	ball screw	mm	XY:28*16/Z:32*16	XZ:32*16/Y:28*16
	Linear guide	/	XY:30/Z:30	XY:30/Z:30
Other	Floor space	mm	1800*2200*2300	2000*2200*2300
	Machine weight	kg	3500	4000
Accuracy	Positioning accuracy	mm	±0.005/300	±0.005/300
	Repeat positioning accuracy	mm	±0.003/300	±0.003/300

OEM/ODM Provide complete machining center solutions



Industry application



Automobile equipment manufacturing industry

Industrial articles for people's livelihood

Aviation equipment manufacturing industry

Advanced parts in special equipment manufacturing industry