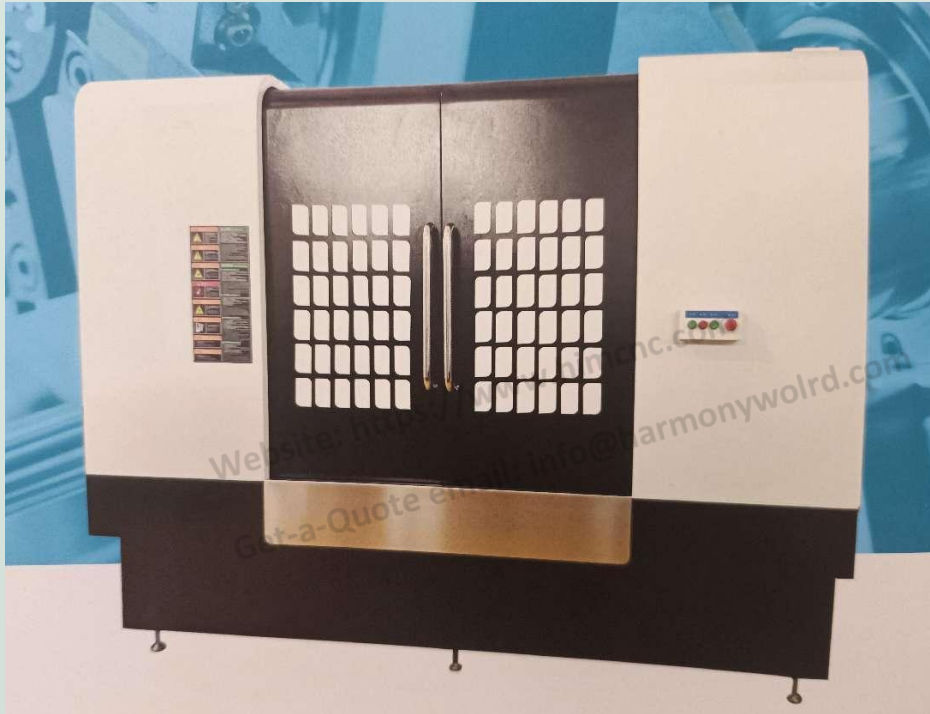
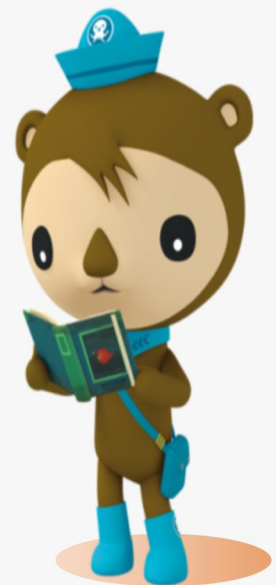


## High speed horizontal machining center



### Product characteristics

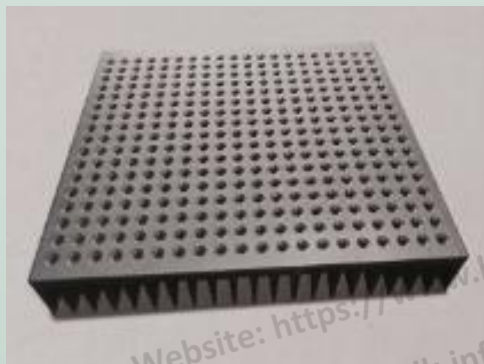
- This machine tool is a horizontal five axis machining center with a box in box structure.
- This machine tool is a fully automatic composite machining center that integrates milling, awning, drilling, cutting, tapping, and other functions, resulting in extremely high consistency of the processed workpieces
- Equipped with ultra high speed 6000rpm synchronous tapping, as well as ultra-high surface quality and machining accuracy.
- One clamping can complete pentahedral machining, reducing secondary clamping time and clamping accuracy. Optional dual exchange workbenches can be equipped to achieve online clamping of workpieces, greatly reducing clamping time and improving production efficiency.
- Applied to LED display box, 5G communication (filter, radiator), large antenna, automotive engine, gearbox end cover, explosion-proof box shielding cover, new energy vehicle control box, battery pack, photovoltaic inverter.
- Processing size range, 500x500640x640640x680960x9601000x500 and other specifications of box body



## Basic technical parameters

	name	unit	HMH1200	HMH1212
<b>route or distance of travel</b>	X-axis stroke	mm	1200	1200
	Travel Y-axis	mm	800	1200
	Z-axis travel	mm	500	600
	Distance from spindle end face to workbench surface	mm	300-1100	500-1700
	Distance from spindle center to workbench surface	mm	200-700	200-800
<b>staging</b>	Workbench size	mm	500x500	500x500
	Maximum load-bearing capacity of the workbench	Kg	200	700
	T-shaped groove (groove number x groove width x spacing)	mm	5x18x100	5x18x100
<b>principal axis</b>	Electric spindle power (rated/peak)	kw	20/30	20/30
	Speed range	r/min	50~18000	50~18000
	Spindle diameter	mm	φ 150	φ 150
	Rigid tapping speed	r/min	6000	6000
	Knife handle specifications		BT40	BT40
<b>guide</b>	Three axis roller linear guide rail	mm	45x2	45x2
<b>drive</b>	Three axis ball screw	mm	4016	4016
	Sun Wu's electric power exceeds the power of the idiot machine X/Y/Z	kw	2.9/2.9/2.9	3.9/3.9/3.9
<b>velocity</b>	X. Y and Z axis fast moving speed	m/min	48	48
	X. Y, Z cutting feed speed range	mm/min	1-10000	1-10000
<b>seat</b>	Positioning accuracy (X/Y/Z)	mm	±0.005/300	±0.005/300
<b>precision</b>	Repetitive positioning accuracy (X/Y/Z)	mm	±0.003	±0.003
<b>Tool magazine</b>	Magazine capacity	grasp	24	32
	Tool length	mm	300	300
	Maximum diameter (full blade/adjacent empty blade)	mm	Φ80/Φ160	Φ80/Φ160
	Tool change time (knife to knife)	s	1.2	1.2
<b>other</b>	Total power capacity	KVA	30	40
	Air source	MPa	0.6	0.6
	Overall dimensions (length x width x height)	mm	3000x2700x2500	3000x5000x3200
	Total weight (approximately)	kg	5000	10000

## Small high-speed drilling center



### Product characteristics

- The machine tool adopts a dual zero level high-precision marble integrated body design, ensuring long-term stability and deformation of the body
- The high-speed displacement reaches 48 meters/minute, and the servo tool library automatically changes tools. Multiple processes such as milling, drilling, and tapping can be completed in one clamping operation.
- The spindle adopts a high speed, high torque, and high-precision permanent magnet synchronous motor, which can meet the needs of high-speed machining and ensure accuracy.
- Suitable for high-speed drilling, milling, and 6000 rpm high-speed rigid tapping of small precision components.
- The control system can be either a standard CNC numerical control system or a programmable numerical control system independently developed by microcontrollers. The programmable CNC system is the first in China and can automatically generate machining codes by importing 2D drawings, which can be operated by ordinary workers.

**Parameter Table of Small High Speed Drilling and Tapping Center**

	type	HM740H	HM1040H
	unit	parameter	parameter
<b>route or distance of travel</b>			
X-axis stroke	mm	700	1000
Travel Y-axis	mm	400	400
Z-axis travel	mm	180	180
Gantry width	mm	800	1200
Distance from spindle end face to workbench	mm	170-350	170-350
<b>staging</b>			
Workbench size	mm	700x450	1100x450
T-shaped groove (groove number x groove width x spacing)	mm	4x14x100	4x14x100
<b>principal axis</b>			
Spindle speed	rpm	12000	12000
Spindle rigid tapping speed	rpm	5000-6000	5000-6000
Spindle taper		BT30	BT30
<b>Automatic tool change system</b>			
Tool change form		Hat type servo tool magazine	Bucket style uniform knife magazine
Magazine capacity		10T	10T
Maximum tool length	mm	200	200
Tool change time	mm	3.5	3.5
<b>Feed rate</b>			
X/Y/Z rapid feed	m/min	48/30/30	48/30/30
Cutting feed	mm/min	10000	10000
<b>precision</b>			
positioning accuracy	mm	±0.005/300	±0.005/300
Repetitive positioning accuracy	mm	±0.003	±0.003
<b>other</b>			
Total power	kw	10	11
Machine weight (approximately)	Kg	2200	2500
Overall dimensions (length, width, height)	mm	2200x1600x2000	2600x1600x2000
<b>Standard configuration</b>			
●Shangyin/Yintai screw guide rail	●Automatic tool setting instrument	●CNC numerical control system	
●Electronic handwheel	●Delta Tongfu Motor	●Permanent magnet synchronous spindle motor	

## High speed drilling center



### Product characteristics

- Adopting new technology permanent magnet synchronous spindle, it has high-speed, high-precision, high gloss, and high efficiency in processing. Not only is it suitable for processing high-precision, smooth, and aesthetically pleasing mobile phone shells, keyboards, and metal frames, but it is also capable of processing high-precision parts such as watch movements, aerospace, and medical devices.
- Multiple processes such as milling, drilling, reaming, and tapping can be completed through one clamping operation, with a precision machined appearance without tool lines. The processing qualification rate of high-precision parts is as high as 99%, making it the best choice for batch processing of high-precision parts

**Parameter Table of High Speed Drilling Center**

	model	HMT6	HMT8
	unit	Parameters	Parameters
<b>route or distance of travel</b>			
X-axis stroke	mm	600	800
Travel Y-axis	mm	400	500
Z-axis travel	mm	330	550
Distance from spindle end face to workbench surface	mm	150-480	120-670
Distance from spindle center to column guide rail	mm	460	560
<b>staging</b>			
Workbench size	mm	700x420	1000x500
Maximum load-bearing capacity of the workbench	Kg	250	550
T-shaped groove (groove number x groove width x spacing)	mm	3x14x120	3x18x102
<b>principal axis</b>			
Electric spindle power (rated/peak)	kw	3.7/5.5	5.5/7.5
Speed range	r/min	50~20000	50~20000
Spindle diameter	mm	φ 100	φ 100
Rigid tapping speed	r/min	6000	6000
Knife handle specifications		BT30	BT30
<b>guide</b>			
Three axis linear guide rail	mm	30x2	35x2
<b>Screw rod</b>			
Three axis ball screw	mm	3216	3616
<b>velocity</b>			
X, Y and Z axis fast moving speed	m/min	48	48
X, Y, Z cutting feed speed range	mm/min	1-10000	1-10000
<b>seat</b>			
Positioning accuracy (X/Y/Z)	mm	±0.005/300	±0.005/300
<b>precision</b>			
Repetitive positioning accuracy (X/Y/Z)	mm	±0.003	±0.003
<b>Tool magazine</b>			
Magazine capacity	grasp	21	21
Tool length	mm	300	300
Maximum diameter (full blade/adjacent empty blade)	mm	Φ80/Φ100	Φ80/Φ100
Tool change time (knife to knife)	s	1.5	1.5
<b>other</b>			
Total power capacity	KVA	15	20
Air source	MPa	0.6	0.6
Overall dimensions (length x width x height)	mm	1800x2200x2200	2480x2350x2200
Total weight (approximately)	kg	3000	4000
<b>Standard configuration</b>			
Shangyin/Yintai screw guide rail	Automatic tool setting instrument	CNC numerical control system	
Electronic handwheel	Delta servo motor	Permanent magnet synchronous spindle	

## Parts Center Machine Series



### Machine tool characteristics

- Gb300 resin sand castings
- Wide base herringbone column reduces vibration and improves rigidity
- Direct connected platform P4 level 12000
- 15000 rpm spindle
- Taiwan made silent C3 grade screw and P-grade rail
- Meet rapid displacement of 48m/min
- Disk type tool magazine quick tool change 2S



## Basic technical parameters

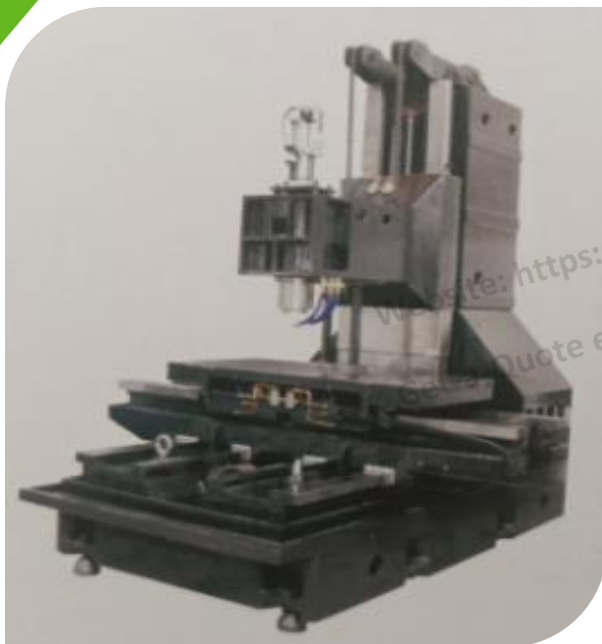
	item	HMV6	HMV8	HMV11
Processing scope	X-axis stroke	600mm	800mm	
	Travel Y-axis	400mm	500mm	
	Z-axis travel	450mm	550mm	
	Spindle center to column guide rail surface	480mm	550mm	
	Distance from spindle end face to workbench surface	170-620mm	100-600mm	
Worktable	Workbench size	700x420mm	1000x450mm	
	Maximum load-bearing capacity of the workbench	300KG	350KG	
	Number of T-slots	3	4	
Principal axis	Spindle taper hole	BT40/Φ120	BT40/Φ140	
	Spindle type	Direct connection	Belt/direct connection	
	Spindle motor power/speed	5.5KW/12000rpm	7.5KW/ 12000rpm	
Servo feed	X/Y/Z axis feed motor power	1.5/1.5/3.0KW	204/204/303B	
	XYZ fast movement speed	48m/min	48m/min	
	feed rate	12m/min	12m/min	
	XYZ Ball Screw Specifications	3216	3216	
	XYZ Linear Rail Specifications	HGW30	RGW35 Roller type	
Tool magazine	ATC form handle type	BT40 disc type	BT40 disc type	
	Magazine capacity	24T	24T	
	Tool change time (knife to knife)	1.8S	1.8S	
Machine accuracy	XYZ positioning accuracy (JIS)	±0.005/300mm	±0.005/300mm	±0.005/300mm
	Repetitive positioning accuracy (JIS)	±0.003	±0.003	±0.003
Other	Power capacity demand	10KVA	15KVA	
	Air pressure requirements	6.0kg/cm <sup>2</sup>	6.0kg/cm <sup>2</sup>	6.0kg/cm <sup>2</sup>
	Machine weight (approximately)	3.5T	4.5T	7.0T
	Standard CNC system	Mitsubishi, Japan M80	Mitsubishi, Japan M80	Mitsubishi, Japan M80
	Machine tool appearance (L * W * H)	Approximately 2200x1800x2200mm	Approximately 2500x2300x2500mm	Approximately 2800x2300x2700mm

### Standard accessories

Working air blowing system	USB transfer interface
Mechanical tool magazine system	Fully enclosed rice gold
Cutting fluid system	Electrical box heat exchanger
Automatic lubrication system	Work lights
Spindle oil cooler	Foundation cushion block and horizontal adjustment screw
Rigid tapping	Three color warning light
Chip flushing device	Toolbox and basic tools
Pulse electronic handwheel	Technical manual



**Mold processing center series**



**Machine tool characteristics**

- Gb300 resin sand mihanna cast iron casting
- Strengthening the cutting strength of the large box main axle box
- Wide base column reduces vibration and improves rigidity
- Belt drive platform P4 level 8000-12000 rpm spindle
- Three axis platform system silent C3 level screw 20m/min rapid displacement
- Three axis hard rail design suitable for high-strength cutting mold processing
- The combination of imported laminated guide rails and hardened grinding guide rails improves durability and maintains high accuracy

**Basic technical parameters**

	type	HM850	HM1060	HM1270	HM1580	HM1890
Processing scope	X-axis stroke	800mm	1000mm	1200mm	1500mm	1800mm
	Travel Y-axis	500mm	600mm	700mm	800mm	900mm
	Z-axis travel	500mm	600mm	650mm	700mm	680mm
	Spindle center to column guide rail surface	550mm	600mm	785mm	800mm	950mm
	Distance from spindle end face to workbench surface	105-655mm	180-780mm	130-780mm	170-870mm	160-840mm
Worktable	Workbench size	1050x500mm	1300x600mm	600x600mm	1700x800mm	2000x900mm
	Maximum load-bearing capacity of the workbench	600KG	800KG	1000KG	1500KG	1650KG
	Number of T-slots	5	5	5	5	5
Principal axis	Spindle taper hole	BT40/Φ150	BT40/Φ150	BT40/Φ150	BT40/Φ150	BT40/Φ150
	Spindle type					
	Spindle motor power/speed	leather belt	leather belt	leather belt	leather belt	leather belt
Servo feed	X/Y/Z axis feed motor power	7.5KW/8000rpm	11KW/8000rpm	15KW/8000rpm	18.5KW/8000rpm	22.0KW/8000rpm
	XYZ fast movement speed	3.0KW	3.0kW	3.5KW	4.5/7.5/4.5KW	7.5KW
	feed rate	20m/min	20m/min	20m/min	20m/min	20m/min
	XYZ Ball Screw Specifications	12m/min	12m/min	10m/min	8m/min	8m/min
	Number of Y-axis slides	4010	4010	5010	6310/6310/5010	5512
Machine accuracy	XYZ positioning accuracy (JIS)	2	2	4	4	4
	Repetitive positioning accuracy(JIS)	±0.005/300mm	±0.005/300mm	±0.005/300mm	±0.010/300mm	±0.010/300mm
other	Power capacity demand	±0.005	±0.005	±0.005	±0.005	±0.005
	Air pressure requirements	20KVA	25KVA	35KVA	40KVA	50KVA
	Machine weight (approximately)	6.0kg/cm <sup>2</sup>	6.0kg/cm <sup>2</sup>	8.0kg/cm <sup>2</sup>	8.0kg/cm <sup>2</sup>	8.0kg/cm <sup>2</sup>
	Standard CNC system	Mitsubishi, Japan M80	Mitsubishi, Japan M80	Mitsubishi, Japan M80	Mitsubishi, Japan M80	Mitsubishi, Japan M80
	Machine tool appearance(L*W*H)	About 2500x2200x2500 mm	About 2800x2350x2700 mm	About 3100x2500x2980 mm	About 4400x3700x3600 mm	About 4850x3950x3400 mm

## Tool magazine drilling and tapping machine



The tool magazine drilling and tapping machine is a vertical automatic tool changing CNC drilling and tapping equipment, widely used in drilling, tapping, and milling of porous positions such as radiators, die-casting parts, hardware processing, and mold manufacturing. The system has an automatic tool change function, and multiple specifications of threaded holes can be clamped in one go to complete positioning processing, thereby solving the positioning error of secondary clamping and ensuring processing accuracy. Especially suitable for processing parts with diverse product specifications that require frequent replacement of products with different specifications. Thread processing range: M1.2~M12, inch and non-standard threads only need to input pitch. Compared with traditional CNC machining centers, multi axis machines, and other equipment, its biggest advantage is that when replacing products of different specifications, CAD drawings can be imported and exported to coordinate data through a USB flash drive or directly input coordinate data, without the need for tedious mechanical alignment adjustment or CNC programming. Ordinary workers can complete the

**Parameter table of tool magazine drilling and tapping machine**

Technical indicators	type	HM740	HM1040	remarks
	unit	parameter	parameter	Support for pecking drilling
Maximum drilling diameter	mm	13	13	
Minimum drilling diameter	mm	0.5	0.5	
Maximum tapping specification		M12	M12	
Spindle specifications		BT30Mechanical spindle	BT30Mechanical spindle	
Workbench size	mm	700x450	1100x450	
X-axis stroke	mm	700	1000	servo motor
Travel Y-axis	mm	400	400	servo motor
Z-axis travel	mm	180	180	servo motor
XY/100 million rapid feed speed	m/m in	48/30/30	48/30/30	servo motor
Drilling spindle speed	rpm	6000	6000	
Rigid tapping spindle speed	rpm	3000	3000	servo motor
Collet specifications		ER20	ER20	
Control system		PLC/IPC	PLC/IPC	
Input and display methods		Import coordinate data/CAD drawings from USB flash drive	Import coordinate data/CAD drawings from USB flash drive	
Rack countertop		Double zero level high-precision marble	Double zero level high-precision marble	
transmission		Ball screw and precision linear guide rail	Ball screw and precision linear guide rail	Shangyin/Yinti
positioning accuracy	mm	0.01	0.01	
Repetitive positioning accuracy	mm	0.005	0.005	
Protection form		Stainless steel protective cover	Stainless steel protective cover	
Tool change method		Servo tool magazine automatic tool change (10 tool positions)	Servo tool magazine automatic tool change (10 tool positions)	servo motor
structural style		Gantry structure	Gantry structure	
Tool cooling method		Electric pump circulation system	Electric pump circulation system	
lubrication system		Fully automatic intelligent lubricating oil pump	Fully automatic intelligent lubricating oil pump	
aggregate capacity	kw	4.5	5	
Additional electronic handwheel		4-axis	4-axis	apolegamy
Overall dimensions (length, width, height)	mm	2200x1600x2000	2600x1600x2000	
Machine weight	kg	2000	2300	

## Double axis drilling and tapping machine



### Product characteristics

The dual axis drilling and tapping machine is a vertical dual axis CNC drilling and tapping equipment, widely used in the drilling, tapping, milling and other integrated parts processing of porous positions such as radiators, die-casting parts, hardware processing, and mold manufacturing. It is particularly suitable for the processing of parts with diverse product specifications that require frequent replacement of different specifications. Thread processing range: M1.2~M8, inch and non-standard threads only need to input pitch. Compared with traditional CNC machining centers, multi axis machines, and other equipment, its biggest advantage is that when replacing products of different specifications, CAD drawings can be imported and exported through a USB flash drive or directly input coordinate data, without the need for tedious mechanical alignment adjustment or CNC programming. Ordinary workers can complete the operation. The equipment has the characteristics of low investment cost, high processing accuracy, good product consistency, and easy to learn operation.



**Parameter Table of Dual Axis Drilling and Tapping Machine**

Technical indicators	model	HM540	HM860	remarks
	Company	parameter	parameter	
Maximum drilling diameter	mm	10	10	Support for pecking drilling
Minimum drilling diameter	mm	0.5	0.5	
Maximum tapping specification		M8	M8	
Spindle specifications		Electric spindle	Electric spindle	
Workbench size	mm	580x450	850x600	
X uranium stroke	mm	500	800	servo motor
Travel Y-axis	mm	400	600	servo motor
Z-axis travel	mm	90	90	servo motor
X/Y/Z rapid feed speed	m/min	30/15/15	30/15/15	servo motor
Drilling spindle speed	rpm	24000	24000	
Rigid tapping spindle speed	rpm	3000	3000	servo motor
Collet specifications		ER20	ER20	
navar		PLC/industrial computer	PLC/industrial computer	
Input and display methods		Import coordinate data/CAD drawings from USB flash drive	Import coordinate data/CAD drawings from USB flash drive	
Rack countertop		Double zero level high-precision marble	Double zero level high-precision marble	
transmission		Ball screw and precision linear guide rail	Ball screw and precision linear guide rail	Shangyin/Yintai
positioning accuracy	mm	0.01	0.01	
Repetitive positioning accuracy	mm	0.005	0.005	
Protection form		Stainless steel protective cover	Stainless steel protective cover	
Shaandao method		Manual tool change	Manual tool change	
structural style		Gantry structure	Gantry structure	
Tool cooling method		Electric pump circulation system	Electric pump circulation system	
lubrication system		Fully automatic intelligent lubricating oil pump	Fully automatic intelligent lubricating oil pump	
Total power	kw	4.5	5	
Additional electronic handwheel		4-axis	4-axis	apolegamy
Overall dimensions (length, width, height)	mm	1700x1500x1700	1950x1900x1700	
Machine weight	kg	1500	1800	

## Horizontal drilling center series



### Standard accessories

New generation CNC system in  
Taiwan, China, China  
Full cover rice gold  
Three color warning light  
Spindle oil cooling system  
Electric box cooling system  
Cutting and blowing device  
Auto chip-removal system

### Optional accessories

Mitsubishi CNC System in Japan  
Clean the air gun  
Cleaning water gun  
CNC indexing plate  
Oil water separator  
Magazine: 24/36 pieces  
Rigid tapping (optional for internal  
installation)  
Other special configurations

## Main specifications and technical parameters

	item	unit	parameter	remarks	
Processing scope	X-axis stroke	mm	1700		
	Y-axis sliding saddle stroke	mm	190		
	Z-axis travel before and after the spindle	mm	150		
staging	Workbench size	mm	800*800		
	Worktable load-bearing	Kg	250		
	T-slot (number of slots - slot width * spacing)	mm	7*16*100		
	Distance from workbench to ground	mm	800		
principal axis	Main motor power (rated)	kw	11		
	Speed range	r/min	24000		
	Spindle diameter	mm	φ 125		
	Spindle rigid tapping speed	r/min	5000~6000		
	Knife handle specifications		BT30		
	Pulling nail specifications		BT30-45degrees		
guide	X/Y/Z axis linear guide rail	mm	30*2/25*2/15*2ball		
drive	X/Y/Z ball screw	mm	4020/2510/1605		
	Motor power X/Y/Z	kw	2/0.75/0.40		
velocity	X. Y and Z axis fast moving speed	m/min	40/30/30		
	Cutting feed speed range	mm/min	1-10000		
Position accuracy	Positioning accuracy (X/Y/Z)	mm	±0.005/300	GB/T18400.4	
	Repetitive positioning accuracy (X/Y/Z)	mm	±0.003	GB/T18400.4	
Tool magazine	Magazine capacity	grasp	10		
	Tool length	mm	100		
	Maximum diameter (full blade)	mm	Φ50		
	Tool change time	s	1.5		
other	Total power capacity	KVA	15		
	Air source	pressure	MPa	0.5~0.7	
		flow	L/min	180	
	Cooling box volume	L	150		
	Machine tool appearance dimensions (length * width * height)	mm	2900x2400x1550		
	Total weight (approximately)	Kg	3000		





## High performance CNC numerical control system

Adopting CNC systems such as Huazhong, Mitsubishi, Fanuc, Siemens, New Generation, and Baoyuan.

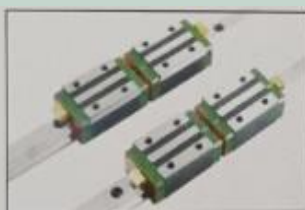


## Machine tool accessories

The main components are all imported from Japan, Germany, and Taiwan (servo motors, wire rails, couplings, screw rods, etc.), with high precision and endurance characteristics. They can be precision processed for different materials (steel, copper aluminum graphite, organic glass, etc.)



ball screw



linear guide rail

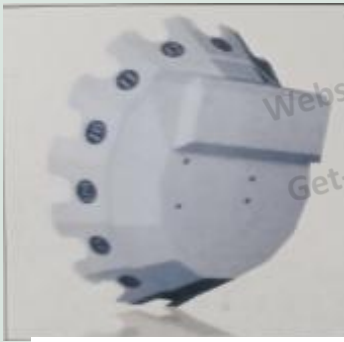


coupling



principal axis

## Tool magazine system



Swashplate tool  
magazine



Bamboo hat style knife  
magazine



Disk type tool magazine

- The swashplate servo automatic tool changing device is fast, accurate, and stable, with a tool changing time of 1.2 seconds.
- The hat type automatic tool changing device uses the pressure system, which is suitable for small and medium-sized tools. The action is simple and the tool changing is fast.
- The disc type automatic tool changing device uses a 3D cam to change tools in just 1.8 seconds. The cutter head can accommodate 24 tools, which can adapt to various processing needs. The tool loading and unloading is easy, and tool management and registration are very convenient.
- The main shaft adopts P4 grade precision bearings, which are highly rigid and heavy cutting. The main shaft has belt type and direct connection type for customers to choose from, and each type of main shaft has high efficiency and strong processing ability.

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