



森达数控

为全球客户提供自动化和更智能的生产解决方案

CENTRE CNC

Bring automatic and intelligent solutions
to our global clients

莆田市森达数控机械有限公司
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1996

CENTRE has been dedicated to the machinery industry for over 25 years

15+

Our products are distributed in more than 15 countries



High-Tech Enterprise of China



High-Tech Little Giant Enterprise of China



Specialization, Refinement, and Novelty Enterprise

Advance Together

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About Our Company



Since established in 1996, CENTRE has been dedicated to the machinery industry for over 25 years. The CENTRE product series include a complete line of Vertical Machining Center, Horizontal Machining Center, Gantry Machining Center, Engraving and Milling Machine, Drilling and Tapping Machining Center and Vertical Milling Machine. CENTRE has been certified as a High-Tech Enterprise of China and High-Tech Little Giant Enterprise of China by Chinese government to recognize our professionalism in production and development.

Strong Manufacturing Capacity

All CENTRE products are produced in our 40,000-square-meter, state-of-the-art facility in Fujian. What's more, the total investment in equipment of machining and assembly exceeds 10 million US dollars. Also, we have professional teams of designing, machining, assembly, and after-sales with hundreds of employees.

Comprehensive Sales and Services Network

Our major market includes not only most provinces in China, but also Turkey, Finland, Poland, Belgium, Iran, South Africa, India, Bangladesh, and other Southeastern countries. We are providing turn-key solutions and 7*24 after-sale services to these countries as well.

25-year Technology Accumulation

As the "High-Tech Enterprise" and "High-Tech Little Giant Enterprise" company recognized by Chinese government, we have been designing and producing machine tools for more than 25 years. With dozens of patents, our products have been granted mainstream certifications such as ISO9001 and CE.

Customized Turn-Key Solution

We have dozens of patents in clamps and technological equipment to give a complete set of solutions, including stages of equipment selection, process plan, tooling design, tools selection, and processing verification. This service can be offered according to characteristics of the customer's production process, requirements of customer's production capacity, and investment plan to assist customers in improving production capacity and quality of products.

25^{year}

Machine tool design and manufacturing experience

40,000+^{m²}

Plant area

10M+^{USD}

Investment in equipment



Vertical Machining Center—3 Linear Way

This product series is designed based on most major CNC system brands, working perfectly with system drives and motor types from most major CNC system companies. High-precision 3-axis linkage can be realized on this product. It has been designed for complex and multiple procedures with high-precision purposes. This series perfectly fits any industry requiring various types of machine tools, cutting tools, technological equipment, or any industry that employs batch production requiring multiple times of clamping and adjusting, such as electronic, machinery, automobile, aviation, or shipbuilding industries.

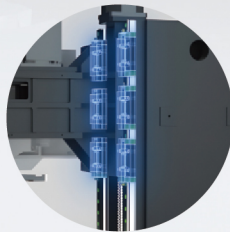


		LV-855	LV-1160	LV-1260	LV-1365
Travel					
3-axis Travel(X/Y/Z)	mm	850/550/550	1100/600/600	1200/600/600	1300/650/650
Spindle Nose To Table	mm	120-670	120-720	120-720	110-760
Spindle Center To Column	mm	612	670	670	698
3-axis Guideway Width(X/Y/Z)	mm	35/45/45	45/45/45	45/45/45	45/45/45
Table					
Table Size	mm	1000x550	1200x600	1400x600	1600x600
T-slot	mm	5x18x90	5x18x100	5x18x100	5x18x100
Max Weight on Table	kg	700	900	900	900
Spindle					
Standard Spindle		Direct-Drive	Direct-Drive	Direct-Drive	Direct-Drive
Spindle Speed	rpm	12000	12000	12000	12000
Spindle Power	kw	11-15	11-15	11-15	11-15
Spindle Taper		BBT40	BBT40	BBT40	BBT40
Feed					
Max Cutting Feed Rate(X/Y/Z)	m/min	15	15	15	15
Rapid Traverse(X/Y/Z)	m/min	36/36/36	36/36/36	36/36/36	36/36/36
3-axis Motor(X/Y/Z)	kw	3/3/3	3/3/3	3/3/3	3/3/3
Ball Screw Diameter/Pitch(X/Y/Z)	mm	40/12	40/12	40/12	40/12
Accuracy					
Positioning Accuracy(X/Y/Z)	mm	0.008/0.006/0.006	0.008/0.006/0.006	0.008/0.006/0.006	0.008/0.006/0.006
Repeatability(X/Y/Z)	mm	0.005/0.004/0.004	0.005/0.004/0.004	0.005/0.004/0.004	0.005/0.004/0.004
Other					
Air Pressure	kgf/cm ²	6.5	6.5	6.5	6.5
Mass of Machine	kg	5800	7200	7350	8000
Floor Space	mm ²	2740x2400	3270x2400	3270x2400	3600x2590
Machine Height	mm	2800	3000	3000	3380

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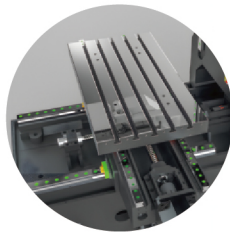
Herringbone column and the Union-Jack pattern shaped internal ribs
Improves the overall rigidity of the machine



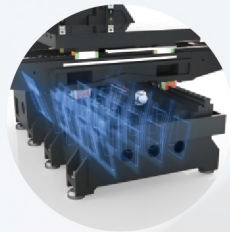
6 sliders headstock and work table track design
Improve the rigidity and stability of machine tool processing (Applicable to certain models)



Ultra wide one-piece machine bed
Provides stable loading capability



Oil-water separation
Easier chip removal, and avoids cutting fluid from stinking and leaking



Diagonal rib structure machine bed
The stress point is directed directly to the anchor bolts, increasing rigidity, reducing deformation, and improving machining accuracy and stability

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Spindle:12,000/15,000rpm Direct-Drive
- Tool Magazine: 24T Disc Type
- CNC Indexing Plate (4th Axis / 5th Axis)
- Through-Spindle Coolant System
- Contact Tool Setter (Broken Tool Detector)
- 3-axis Linear Encoder
- Chip Conveyor

Vertical Machining Center——3 Linear Way

This product series is designed based on most major CNC system brands, working perfectly with system drives and motor types from most major CNC system companies. High-precision 3-axis linkage can be realized on this product. It has been designed for complex and multiple procedures with high-precision purposes. This series perfectly fits any industry requiring various types of machine tools, cutting tools, technological equipment, or any industry that employs batch production requiring multiple times of clamping and adjusting, such as electronic, machinery, automobile, aviation, or shipbuilding industries.

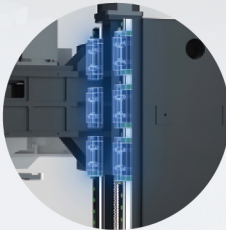


		LV-1380	LV-1580	LV-1680	LV-1890
Travel					
3-axis Travel(X/Y/Z)	mm	1300/800/700	1500/800/700	1600/800/730	1800/900/740
Spindle Nose To Table	mm	160-860	160-860	70-800	125-865
Spindle Center To Column	mm	855	855	866	976
3-axis Guideway Width(X/Y/Z)	mm	55/45/55	55/45/55	55/45/55	55/45/55
Table					
Table Size	mm	1400x800	1600x800	1700x800	2000x900
T-slot	mm	7x18x110	7x22x110	5x22x145	5x22x164
Max Weight on Table	kg	1300	1500	1500	1800
Spindle					
Standard Spindle		Belt	Belt	Belt	Belt
Spindle Speed	rpm	6000	6000	6000	6000
Spindle Power	kw	15-18.5	15-18.5	15-18.5	15-18.5
Spindle Taper		BT50	BT50	BT50	BT50
Feed					
Max Cutting Feed Rate(X/Y/Z)	m/min	15	15	8	5
Rapid Traverse(X/Y/Z)	m/min	30/30/24	30/30/24	20/20/20	16/16/16
3-axis Motor(X/Y/Z)	kw	3/3/3	3/3/3	3/3/3	3/3/3
Ball Screw Diameter/pitch(X/Y/Z)	mm	50/10	50/10	50/10	55/12
Accuracy					
Positioning Accuracy(X/Y/Z)	mm	0.01/0.006/0.006	0.016/0.01/0.01	0.016/0.01/0.01	0.016/0.01/0.01
Repeatability(X/Y/Z)	mm	0.007/0.004/0.004	0.008/0.005/0.005	0.008/0.005/0.005	0.008/0.005/0.005
Other					
Air Pressure	kgf/cm ²	6.5	6.5	6.5	6.5
Mass of Machine	kg	10000	11000	12500	15000
Floor Space	mm ²	3960x3750	4390x3800	4455x3800	5375x3800
Machine Height	mm	3000	3185	3250	3425

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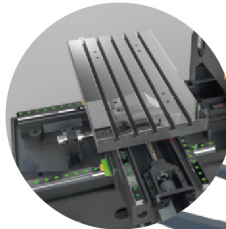
Herringbone column and the Union-Jack pattern shaped internal ribs
Improves the overall rigidity of the machine



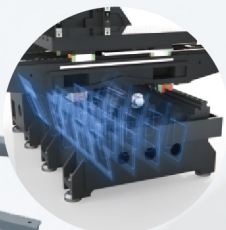
6 sliders headstock and work table track design
Improve the rigidity and stability of machine tool processing



Ultra wide one-piece machine bed
Provides stable loading capability



Oil-water separation
Easier chip removal, and avoids cutting fluid from stinking and leaking



Diagonal rib structure machine bed
The stress point is directed directly to the anchor bolts, increasing rigidity, reducing deformation, and improving machining accuracy and stability

4-track ultrawide Y-axis guideway
Provides stable machining accuracy and rigidity

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Spindle:12,000/15,000rpm Direct-Drive
- Tool Magazine: 24T Disc Type
- CNC Indexing Plate (4th Axis / 5th Axis)
- Through-Spindle Coolant System
- Contact Tool Setter (Broken Tool Detector)
- 3-axis Linear Encoder
- Chip Conveyor

Vertical Machining Center——2 Linear and 1 Box way

This product series is a high-precision, high-performance two linear and one hard-rail guideway vertical machining center. The X, Y axis linear guideways achieve efficient position accuracy, and the Z-axis hard-rail guideway strengthens cutting force and circular accuracy. This series has been widely used in aerospace, automobile, motorcycle, household appliances, electronics, communication, medical equipment, instrumentation, mold base processing and many other industries.



		HV-1370L	HV-1580L	HV-1680L	HV-1890L
Travel					
3-axis Travel(X/Y/Z)	mm	1300/700/700	1500/800/750	1600/800/730	1800/900/750
Spindle Nose To Table	mm	150-850	130-880	70-800	130-880
Spindle Center To Column	mm	760	870	950	950
3-axis Guideway Width(X/Y/Z)	mm	45/45/Rectangular	55/45/Rectangular	55/45/Rectangular	55/45/Rectangular
Table					
Table Size	mm	1500x700	1700x800	1700x800	2000x900
T-slot	mm	5x18x145	5x22x145	5x22x145	5x22x164
Max Weight on Table	kg	1000	1500	1500	1800
Spindle					
Standard Spindle		Belt	Belt	Belt	Belt
Spindle Speed	rpm	6000	6000	6000	6000
Spindle Power	kw	15-18.5	15-18.5	15-18.5	15-18.5
Spindle Taper		BT50	BT50	BT50	BT50
Feed					
Max Cutting Feed Rate(X/Y/Z)	m/min	15	15	15	15
Rapid Traverse(X/Y/Z)	m/min	24/24/18	24/24/18	20/20/12	16/16/12
3-axis Motor(X/Y/Z)	kw	3/3/3	3/3/3	3/3/3	3/3/3
Ball Screw Diameter/pitch(X/Y/Z)	mm	40/10	50/10	50/10	55/12
Accuracy					
Positioning Accuracy(X/Y/Z)	mm	0.01/0.006/0.006	0.016/0.01/0.01	0.016/0.01/0.01	0.016/0.01/0.01
Repeatability(X/Y/Z)	mm	0.007/0.004/0.004	0.008/0.005/0.005	0.008/0.005/0.005	0.008/0.005/0.005
Other					
Air Pressure	kgf/cm ²	6.5	6.5	6.5	6.5
Mass of Machine	kg	11000	12000	12600	15000
Floor Space	mm ²	3860x2900	4390x3040	4410x3220	4850x3650
Machine Height	mm	2910	3185	3185	3450

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Lubrication system with volumetric distributing valve

The lubricating system adopts volumetric distributing valve to supply oil regularly and quantitatively to ensure uniform lubrication. Also, this design prolongs the service life of the machine

Z-axis guideway with rectangular guideway

The Z-axis adopts rectangular guideway design to ensure excellent circular accuracy and cutting force

4-track ultrawide Y-axis guideway

The base adopts 4-track guideway structure design, combined with the large-span design between the guideway, achieving unique stability in heavy cutting

Box-shaped machine base

Box-shaped base, large-span "A"-shaped column and solid structure achieve good precision in heavy cutting

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Spindle:12,000/15,000rpm Direct-Drive, 6,000rpm Gear-Drive Head
- Tool Magazine: 24T Disc Type
- CNC Indexing Plate (4th Axis / 5th Axis)
- Through-Spindle Coolant System
- Contact Tool Setter (Broken Tool Detector)
- 3-axis Linear Encoder
- Chip Conveyor

Vertical Machining Center—E-series

The series is designed for high efficiency production in small and medium volume processing scenarios, Based on the finite element analysis, lightweight design is adopted to improve the dynamic performance of the machine, which can be used to complete the multi-process, high-precision and a variety of cutting requirements of aluminum and steel parts to maximize customer productivity and improve the return on investment.

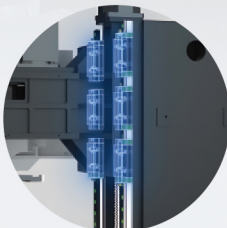


		LV-855E	LV-1380E
Travel			
3-axis Travel(X/Y/Z)	mm	800/550/550	1300/800/700
Spindle Nose To Table	mm	120-670	140-840
Spindle Center To Column	mm	590	845
3-axis Guideway Width(X/Y/Z)	mm	35/45/45	45/45/45
Table			
Table Size	mm	1000x550	1500x800
T-slot	mm	5x18x90	5x18x145
Max Weight on Table	kg	500	1000
Spindle			
Standard Spindle		Belt	Belt
Spindle Speed	rpm	8000	8000
Spindle Power	kw	7.5-11	11-15
Spindle Taper		BT40	BT40
Feed			
Max Cutting Feed Rate(X/Y/Z)	m/min	15	15
Rapid Traverse(X/Y/Z)	m/min	48/48/48	30/30/30
3-axis Motor(X/Y/Z)	kw	2/2/3	3/3/3
Ball Screw Diameter/pitch(X/Y/Z)	mm	40/16	40/10
Accuracy			
Positioning Accuracy(X/Y/Z)	mm	0.008/0.006/0.006	0.01/0.006/0.006
Repeatability(X/Y/Z)	mm	0.005/0.004/0.004	0.007/0.004/0.004
Other			
Air Pressure	kgf/cm²	6.5	6.5
Mass of Machine	kg	5000	8500
Floor Space	mm	2540x2360	3960x3180
Machine Height	mm	2585	3000

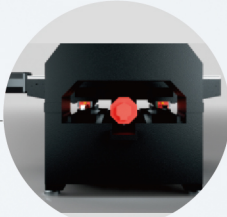
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Herringbone column and the Union-Jack pattern shaped internal ribs
Improves the overall rigidity of the machine



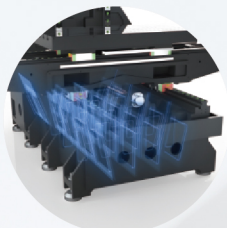
6 sliders headstock and work table track design
Improve the rigidity and stability of machine tool processing
(Applicable to certain models)



Ultra wide one-piece machine bed
Provides stable loading capability



Oil-water separation
Easier chip removal, and avoids cutting fluid from stinking and leaking



Diagonal rib structure machine bed
The stress point is directed directly to the anchor bolts, increasing rigidity, reducing deformation, and improving machining accuracy and stability

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Spindle:12,000/15,000rpm Direct-Drive, 6,000rpm Gear-Drive Head
- Tool Magazine: 24T Disc Type
- CNC Indexing Plate (4th Axis / 5th Axis)
- Through-Spindle Coolant System
- Contact Tool Setter (Broken Tool Detector)
- 3-axis Linear Encoder
- Chip Conveyor

Vertical Machining Center—Dual Magazine

This series is designed specifically for high-efficiency production in large-batch flexible processing scenarios. Based on the high-rigidity bed structure, self-developed spindle, and a standard 64-tool magazine design, while saving machine tool floor space, it improves the equipment's processing capabilities in handling various complex and flexible production environments. It can be used to complete multi-product, multi-process, and high-precision cutting requirements for aluminum, steel, and difficult-to-machine material components, maximizing the reduction of labor dependence, improving equipment utilization rate, and increasing investment return.



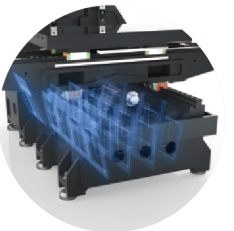
		LV-1165M2	HV-1480LM2	HV-1580LM2
Travel				
3-axis Travel(X/Y/Z)	mm	1100/650/700	1400/800/700	1500/800/700
Spindle Nose To Table	mm	95-795	160-860	160-860
Spindle Center To Column	mm	715	862	862
3-axis Guideway Width(X/Y/Z)	mm	45/45/45	45/45/Rectangular	45/45/Rectangular
Table				
Table Size	mm	1200x650	1500x810	1700x810
T-slot	mm	5x18x110	7x22x110	7x22x110
Max Weight on Table	kg	800	1600	1600
Spindle				
Standard Spindle		Belt	Belt	Belt
Spindle Speed	rpm	8000	6000	6000
Spindle Power	kw	11-15	15-18.5	15-18.5
Spindle Taper		BBT40	BT50	BT50
Feed				
Max Cutting Feed Rate(X/Y/Z)	m/min	15	15	15
Rapid Traverse(X/Y/Z)	m/min	36/36/36	24/24/18	24/24/18
3-axis Motor(X/Y/Z)	kw	3/3/3	3/3/3	3/3/3
Ball Screw Diameter/pitch(X/Y/Z)	mm	40/12	50/10	50/10
Accuracy				
Positioning Accuracy(X/Y/Z)	mm	0.008/0.006/0.006	0.016/0.01/0.01	0.016/0.01/0.01
Repeatability(X/Y/Z)	mm	0.005/0.004/0.004	0.008/0.005/0.005	0.008/0.005/0.005
Other				
Air Pressure	kgf/cm²	6.5	6.5	6.5
Mass of Machine	kg	7900	12200	12400
Floor Space	mm²	3270x3070	4160x3750	4390x3750
Machine Height	mm	2940	3000	3000

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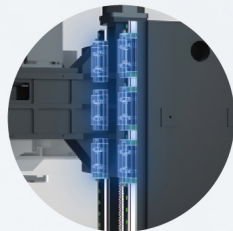
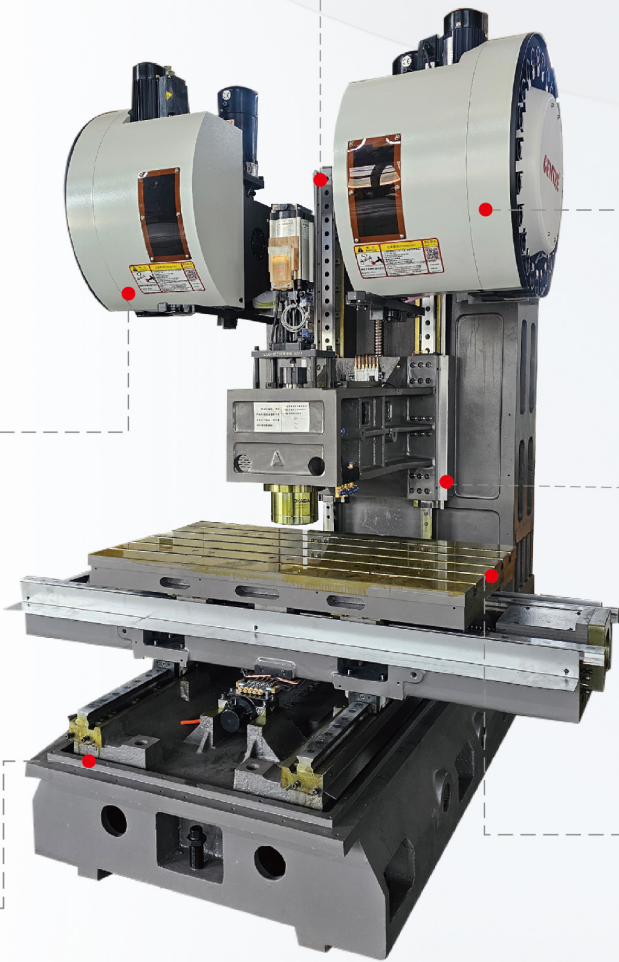


Herringbone column and the Union-Jack pattern shaped internal ribs
Improves the overall rigidity of the machine

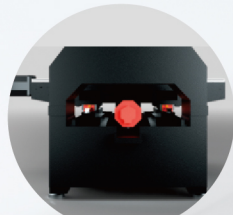
Standard 64-Tools Magazine increases machine efficiency
Obliterates tool-prep downtime and crushes complex multi-workpiece demands



Diagonal rib structure machine bed
The stress point is directed directly to the anchor bolts, increasing rigidity, reducing deformation, and improving machining accuracy and stability



6 sliders headstock and work table track design
Improve the rigidity and stability of machine tool processing



Ultra wide one-piece machine bed
Provides stable loading capability

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Spindle:12,000/15,000rpm Direct-Drive, 6,000rpm Gear-Drive Head
- Tool Magazine: 64 T Disc Type
- CNC Indexing Plate (4th Axis / 5th Axis)
- Through-Spindle Coolant System
- Contact Tool Setter (Broken Tool Detector)
- 3-axis Linear Encoder
- Chip Conveyor

Horizontal Machining Center——T-shaped

This series of horizontal machining centers features high rigidity, high efficiency, superior chip removal performance, and a more compact footprint. Capable of processing larger workpieces and performing indexed rotary processing, it is ideal for multi-surface operations including milling, drilling, boring, reaming, tapping, as well as 2D and 3D contour machining. Its standout capability allows complete machining of box-type hole systems and planar surfaces in a single setup, while also being well-suited for counterboring operations requiring workpiece reversal. It is widely applied across industries such as automotive, aerospace, home appliances, and general machinery.



		HT-630	HT-800	HT-1000
Travel				
3-axis Travel(X/Y/Z)	mm	950/750/900	1200/900/1000	1700/850/850
Distance From Pallet Center To Spindle Gauge Plane	mm	180-1080	180-1180	380-1230
Distance From Pallet Surface To Spindle Center	mm	100-850	100-1000	120-970
3-axis Guideway Width(X/Y/Z)	mm	55	55	55/55/65
Table				
Min Pallet Indexing Angle		1°/0.001°	1°/0.001°	1°/0.001°
Table Area (Width x Length)	mm	650X650	800X800	1000X1000
Pallet Loading Capacity	kg	2000	3000	4000
T-slot	mm	5X22X125	5X22X160	5X22X200
Max Workpiece Swing Diameter	mm	Φ1200	Φ1400	Φ2000
Spindle				
Standard Spindle		Belt	Belt	Belt
Spindle Speed	rpm	6000	6000	6000
Spindle Power	kw	15-18.5	15-18.5	15-18.5
Spindle Taper		BT50	BT50	BT50
Feed				
Max Cutting Feed Rate (X/Y/Z)	m/min	20	20	6
Rapid Traverse(X/Y/Z/B)	m/min	40/40/40/8	40/40/40/8	24/24/24/3
3-axis Motor(X/Y/Z/B)	kw	3/3/3/3	3/3/3/3	3/3/3/3
Ball Screw Diameter/Pitch(X/Y/Z)	mm	50/16	50/16	X/Y:50/12 Z:63/12
Accuracy				
Positioning Accuracy	mm	0.01	0.01	0.012
Repeatability	mm	0.006	0.006	0.008
Pallet Positioning Accuracy	arc-sec	10	10	15
Pallet Repeatability Accuracy	arc-sec	5	5	8
Other				
Electrical Power Supply		45KVA	50KVA	50KVA
Machine Cover		Integral Protection	Integral Protection	Integral Protection
Mass of Machine	kg	16000	18000	20000
Machine Size	mm	5100X3700X3070	5400X3820X3090	6000X4500X4100

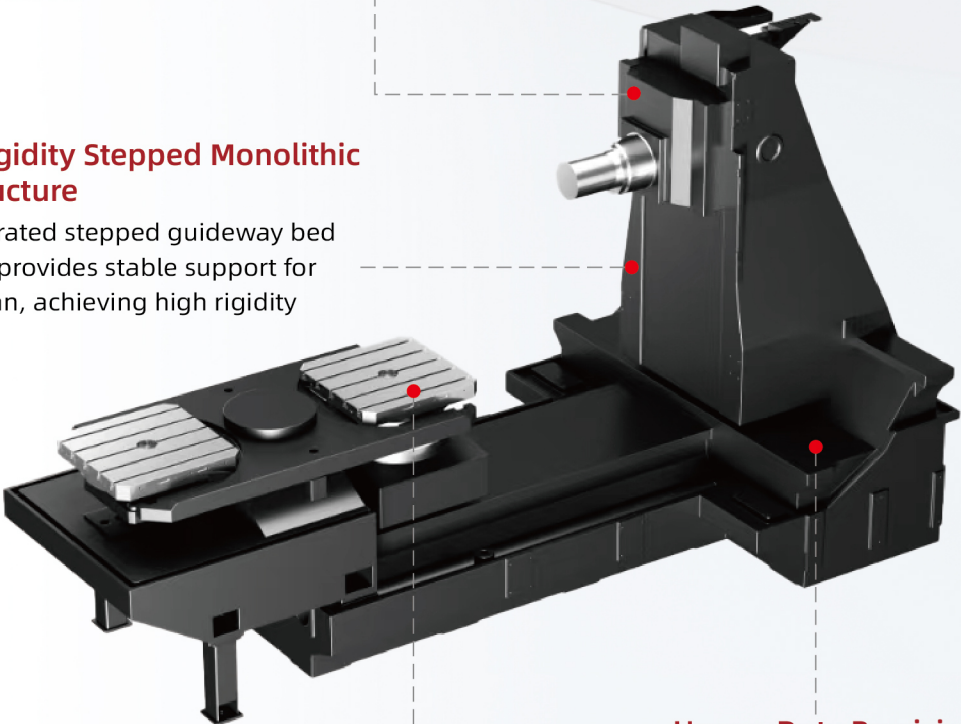
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Short-Arm Tool Changer

Compact arm design reduces inertia during tool changes and significantly decreases tool-to-tool time

High-Rigidity Stepped Monolithic Bed Structure

The integrated stepped guideway bed structure provides stable support for the column, achieving high rigidity



Heavy-Duty & High-Precision Rotary Table

Clamping via taper hole positioning between pallet and worktable, achieving high rigidity and repeat positioning accuracy, and ensuring long-term machining precision under frequent pallet changes

Heavy-Duty Precision Roller Linear Guides

Heavy-duty precision roller linear guides are equipped on all three axes , and simultaneously meets high-precision & heavy-cutting demands

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Tool Magazine: 32T BT50 Disk Type, 40T BT50 Runway Type
- 3-axis Linear Encoder
- CNC Indexing Plate (4th Axis / 5th Axis)
- Through-Spindle Coolant System
- Contact Tool Setter (Broken Tool Detector)
- Oil Mist Collector System
- Automatic Tool Setter
- Chip Conveyor

Horizontal Machining Center—Inverted T-shaped

This product series is suitable for machining huge parts and complex geometries. It perfectly fits those components with multi-surface machining purposes and multi-process machining. This series is also suitable for milling slots or shaping flat surfaces. This series has been widely applied to automobile, aviation, appliance, machinery, and many other industries.



		H-630	H-800	H-1000
Travel				
3-axis Travel(X/Y/Z)	mm	1050/750/900	1100/850/900	1600/1000/1000
Distance From Pallet Center To Spindle Gauge Plane	mm	150-1050	180-1080	200-1200
Distance From Pallet Surface To Spindle Center	mm	100-850	100-950	120-1120
3-axis Guideway Width(X/Y/Z)	mm	45/45/55	55	55
Table				
Min Pallet Indexing Angle		1°/0.001°	1°/0.001°	1°/0.001°
Table Area (Width x Length)	mm	630x700	800x800	1000x1000
Pallet Loading Capacity	kg	1200	1600	3000
T-slot	mm	5x22x125	5x22x160	5x22x200
Max Workpiece Swing Diameter	mm	Φ1200	Φ1600	Φ1600
Spindle				
Standard Spindle		Belt	Belt	Belt
Spindle Speed	rpm	6000	6000	6000
Spindle Power	kw	15-18.5	15-18.5	15-22.5
Spindle Taper		BT50	BT50	BT50
Feed				
Max Cutting Feed Rate (X/Y/Z)	m/min	10	10	10
Rapid Traverse(X/Y/Z/B)	m/min	24/24/24/10	24/24/24/10	24/24/24/8
3-axis Motor(X/Y/Z/B)	kw	3/3/3/3	3/3/3/3	3/3/3/3
Ball Screw Diameter/Pitch(X/Y/Z)	mm	X/Y:40/12;Z:50/12	X/Y:45/12;Z:50/12	50/12
Accuracy				
Positioning Accuracy	mm	0.01	0.012	0.012
Repeatability	mm	0.006	0.006	0.008
Pallet Positioning Accuracy	arc-sec	8	8	8
Pallet Repeatability Accuracy	arc-sec	5	5	5
Other				
Electrical Power Supply		45KVA	50KVA	50KVA
Machine Cover		Integral Protection	Integral Protection	Integral Protection
Mass of Machine	kg	12100	14000	16500
Machine Size	mm	4900x3500x2870	5400x3820x3090	6000x4500x4100

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Vertical downward armor protection and shield of Z-direction guideway
Eliminates iron filings

Upright column and top enclosed protection
Avoids splashing of iron filings with the high-flow flushing device

The rotary table adopts patented heavy-duty technology
The rotary table adopts patented technology, which has the characteristics of the larger supporting area, better rigidity, heavier workpiece loading capacity, higher positioning accuracy and repetitive positioning accuracy

Integral casting inverted T-shaped bed design and large-span guideway design
The bed body adopts an integral casting technology, and undergoes finite element analysis testing to optimize the layout of the inner ribs, ensuring the rigidity of the base and guideway surface to achieve long-term high precision maintenance. Meanwhile, the three-axis guideway adopts a large-span design to provide stronger support

Centralized lubricant recovery system
Saves lubricating oil and prevents lubricating oil from polluting

The ball screw with pre-stretched structure and lubricated with thin oil
The pre-stretched structure eliminates transmission gap and thermal deformation, improving transmission accuracy. Meanwhile, the bearings for the ball screws all adopt thin oil lubrication, which has the advantages of maintenance-free, good lubrication effect, and control of temperature rise, while also improving the service life of the ball screws and the machining accuracy

Spiral chip conveyor interface and cutting scouring device
Automatically eliminates cutting in time, avoids the influence of cutting heat, and maintains high machining accuracy

CNC system

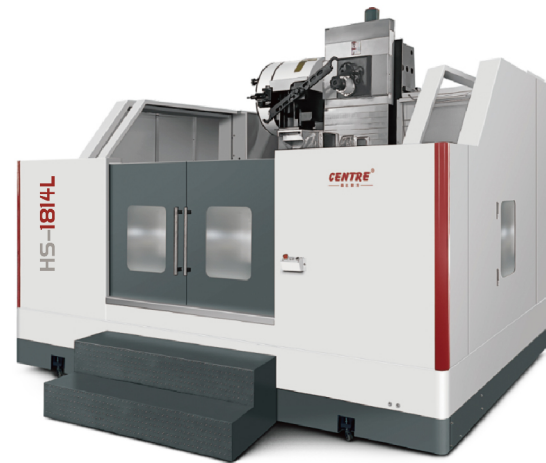
- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Tool Magazine: 32T BT50 Disk Type, 40T BT50 Runway Type
- 3-axis Linear Encoder
- CNC Indexing Plate (4th Axis / 5th Axis)
- Through-Spindle Coolant System
- Contact Tool Setter (Broken Tool Detector)
- Oil Mist Collector System
- Automatic Tool Setter
- Chip Conveyor

Horizontal Machining Center—Cross Slide

This product series is a high-precision, high-performance cross slides horizontal machining center with two linear and one hard-rail guideway. The X, Z axis linear guideways achieve efficient position accuracy, and the Y-axis hard-rail guideway strengthens cutting force and circular accuracy. This series has been widely used in aerospace, automobile, motorcycle, household appliances, electronics, communication, medical equipment, instrumentation, mold processing and many other industries.



		HS-1075L	HS-1290L	HS-1814L
Travel				
3-axis Travel(X/Y/Z)	mm	1000/750/600	1200/900/700	1800/1400/1600
Distance From Pallet Center To Spindle Gauge Plane	mm	90-690	150-850	270-1870
Distance From Pallet Surface To Spindle Center	mm	150-900	140-1040	140-1540
3-axis Guideway Width(X/Y/Z)	mm	45/Rectangular/55	55/Rectangular/45	55/Rectangular/45
Table				
Min Pallet Indexing Angle		1°/0.001°	1°/0.001°	1°/0.001°
Table Area (Width x Length)	mm	500x500	630x630	1000x1250
Pallet Loading Capacity	kg	800	1200	5000
T-slot	mm	5x18x100	5x18x100	7x22x100
Max Workpiece Swing Diameter	mm	Φ1600	Φ1800	Φ3000
Spindle				
Standard Spindle		Belt	Belt	Belt
Spindle Speed	rpm	8000	6000	6000
Spindle Power	kw	7.5-11	15-18.5	15-18.5
Spindle Taper		BT40	BT50	BT50
Feed				
Max Cutting Feed Rate (X/Y/Z)	m/min	6	6	6
Rapid Traverse(X/Y/Z/B)	m/min	24/12/24	20/12/20	20/12/20
3-axis Motor(X/Y/Z/B)	kw	3/3/3/3	3/3/3/3	3/3/3/3
Ball Screw Diameter/Pitch(X/Y/Z)	mm	X/Z:40/12;Y:50/10	50/10	X:55/12 Y/Z:50/10
Accuracy				
Positioning Accuracy	mm	0.012	0.012	0.012
Repeatability	mm	0.008	0.008	0.008
Pallet Positioning Accuracy	arc-sec	12	12	12
Pallet Repeatability Accuracy	arc-sec	6	6	6
Other				
Electrical Power Supply		40KVA	45KVA	50KVA
Machine Cover		Half protection	Half protection	Half protection
Mass of Machine	kg	9200	12200	18500
Machine Size	mm	4200x4175x3400	4500x4325x3500	6250x5325x4000

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The interior of the spindle box with ribs structure

The interior of the spindle box is reinforced with ribs structure, and the reasonable contact length between the column and the spindle box provide stable support for the spindle

Box-structure column

The wide and solid base of the machine has a box-shaped structure column design, the saddle is widened and lengthened, and the heavy-duty full-support design has a solid structure, which can ensure the heavy-duty capacity during machining

4-track ultrawide Y-axis guideway

The base adopts 4-track guideway structure design, combined with the large-span design between the guideway, achieving unique stability in heavy cutting

Box-shaped base

Box-shaped base, large-span A-shaped column and solid structure achieve good precision in heavy cutting

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Tool Magazine: 32T BT50 Disk Type, 40T BT50 Runway Type
- Linear Encoder: Heidenhain, Fagor
- CNC Indexing Plate (4th Axis / 5th Axis)
- Through-Spindle Coolant System
- Contact Tool Setter (Broken Tool Detector)
- Oil Mist Collector System
- Automatic Tool Setter
- Chip Conveyor

Gantry Machining Center—Double Column

This product series adopts the fixed beam gantry structure, and high-precision 3-axis linkage can be realized on this product. This product series has been widely applied to aviation, precision molding, automobile, internal combustion engine, textile machinery, electronics, and many other industries.



		GM-2014L	GM-2018L	GM-2820L	GM-3220L
Travel					
3-axis Travel(X/Y/Z)	mm	2000/1450/800	2000/1850/800	2800/2000/1000	3200/2000/1000
Between Column	mm	1300	1660	2000	2000
Distance From Spindle Nose To Table	mm	190-990	250-1050	205-1250	205-1205
3-axis Guideway Width(X/Y/Z)	mm	45/45/Rectangular	55/55/Rectangular	55/55/Rectangular	55/55/Rectangular
Table					
Table Size	mm	2000x1000	2000x1300	2500x1800	3000x1800
T-slot	mm	7x22x140	7x22x170	9x22x190	9x28x200
Max Weight on Table	kg	3000	4000	5000	6000
Spindle					
Standard Spindle		Belt	Belt	Belt	Belt
Spindle Speed	rpm	6000	6000	6000	6000
Spindle Power	kw	15-18.5	15-18.5	15-18.5	15-18.5
Spindle Taper		BT50/Φ190	BT50/Φ190	BT50/Φ190	BT50/Φ190
Feed					
Max Cutting Feed Rate (X/Y/Z)	m/min	10	10	10	10
Rapid Traverse(X/Y/Z)	m/min	15/15/15	15/15/15	15/15/15	15/15/15
3-axis Motor(X/Y/Z)	kw	3/3/3	3/3/3	3/3/3	3/3/3
Ball Screw Diameter/Pitch(X/Y/Z)	mm	X:63/10;Y/Z:50/10	X:63/10;Y/Z:50/10	X:63/10;Y/Z:50/10	X:80/20;Y/Z:50/10
Accuracy					
Positioning Accuracy(X/Y/Z)	mm	0.018/0.018/0.015	0.018/0.018/0.015	0.018/0.018/0.015	0.018/0.018/0.015
Repeatability(X/Y/Z)	mm	0.012/0.012/0.01	0.012/0.012/0.01	0.012/0.012/0.01	0.012/0.012/0.01
Other					
Air Pressure	kgf/cm ²	6.5	6.5	6.5	6.5
Machine Size(L*W*H)	mm	6800x3300x4000	6850x3800x4000	7525x4835x4925	8655x4710x4925
Mass of Machine	kg	15000	21000	24000	27000

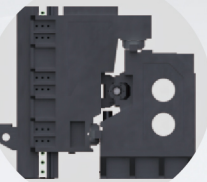
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X/Y-axis linear rail and Z-axis hard rail design
Provides high accuracy with excellent rigidity for heavy cutting

Ultra-wide column design
Increases the contact area of the beam to eliminate aftershock during processing

Full coverage of lubrication system
All moving parts are covered by the lubrication system, which realizes timing and quantitative automatic lubrication

Oil-water separation
Easier chip removal, and avoided cutting fluid from stinking and leaking



Stepped beam structure
Widens the guideway to realize uniformly distributed load, while the head of the machine is close to the center of the beam to shorten the moment, providing high motion accuracy with excellent rigidity for heavy cutting

Full travel support
3-axis full-travel support and multi-slider design realizes uniformly distributed load and reduces wear and tear

High-grade cast iron and various aging treatments
Adopts GB300 high-grade cast iron, and the internal stress is eliminated by aging treatments such as tempering and vibration



V-shape bed structure
Provides high rigidity

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Spindle: 8,000/10,000rpm Direct-Drive
- Tool Magazine: 40T Runway Type
- CNC Indexing Plate (4th Axis / 5th Axis)
- Through-Spindle Coolant System
- Contact Tool Setter (Broken Tool Detector)
- Oil Mist Collector System
- 3-axis Linear Encoder
- Automatic Tool Setter
- Chip Conveyor

Gantry Machining Center—Double Column

This product series adopts the fixed beam gantry structure, and high-precision 3-axis linkage can be realized on this product. This product series has been widely applied to aviation, precision molding, automobile, internal combustion engine, textile machinery, electronics, and many other industries.



		GM-2520L	GM-3027L	GM-4030L	GM-6037L
Travel					
3-axis Travel(X/Y/Z)	mm	2500/2000/1000	3000/2700/1000	4000/3050/1000	6000/3700/1250
Between Column	mm	1800	2300	2700	3200
Distance From Spindle Nose To Table	mm	150-1150	280-1280	280-1280	250-1500
3-axis Guideway Width(X/Y/Z)	mm	55/55/Rectangular	55/55/Rectangular	55/55/Rectangular	55/55/Rectangular
Table					
Table Size	mm	2500×1600	3000×2000	4000×2300	6000×3000
T-slot	mm	9×22×180	9×28×200	11×28×200	15×28×200
Max Weight on Table	kg	7000	10000	12000	18000
Spindle					
Standard Spindle		Belt	Belt	Belt	Belt
Spindle Speed	rpm	6000	6000	6000	6000
Spindle Power	kw	15-18.5	15-18.5	22	22
Spindle Taper		BT50/φ190	BT50/φ200	BT50/φ200	BT50/φ200
Feed					
Max Cutting Feed Rate (X/Y/Z)	m/min	10	8	6	6
Rapid Traverse(X/Y/Z)	m/min	15/15/15	12/12/12	10/10/10	8/8/8
3-axis Motor(X/Y/Z)	kw	3/3/3	6/7/7	6/7/7	9/7/6
Ball Screw Diameter/Pitch(X/Y/Z)	mm	X:63/12;Y/Z:50/10	X:80/20;Y:63/12;Z:50/10	X:80/20;Y:63/16;Z:50/10	X:100/20;Y:80/20;Z:63/16
Accuracy					
Positioning Accuracy(X/Y/Z)	mm	0.018/0.018/0.015	0.018/0.018/0.015	0.02/0.018/0.015	0.028/0.018/0.015
Repeatability(X/Y/Z)	mm	0.012/0.012/0.01	0.012/0.012/0.01	0.015/0.012/0.01	0.02/0.012/0.01
Other					
Air Pressure	kgf/cm ²	6.5	6.5	6.5	6.5
Machine Size(L*W*H)	mm	7290×4415×4830	8235×5310×5350	10930×5780×5900	15700×6750×6290
Mass of Machine	kg	24000	36000	46000	61000

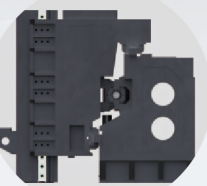
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X/Y-axis linear rail and Z-axis hard rail design
Provides high accuracy with excellent rigidity for heavy cutting

Ultra-wide column design
Increases the contact area of the beam to eliminate aftershock during processing

Full coverage of lubrication system
All moving parts are covered by the lubrication system, which realizes timing and quantitative automatic lubrication

Oil-water separation
Easier chip removal, and avoided cutting fluid from stinking and leaking



Stepped beam structure
Widens the guideway to realize uniformly distributed load, while the head of the machine is close to the center of the beam to shorten the moment, providing high motion accuracy with excellent rigidity for heavy cutting

Full travel support
3-axis full-travel support and multi-slider design realizes uniformly distributed load and reduces wear and tear

High-grade cast iron and various aging treatments
Adopts GB300 high-grade cast iron, and the internal stress is eliminated by aging treatments such as tempering and vibration



V-shape bed structure
Provides high rigidity

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Spindle: 8,000/10,000rpm Direct-Drive
- Tool Magazine: 40T Runway Type
- CNC Indexing Plate (4th Axis / 5th Axis)
- Through-Spindle Coolant System
- Contact Tool Setter (Broken Tool Detector)
- Oil Mist Collector System
- 3-axis Linear Encoder
- Automatic Tool Setter
- Chip Conveyor

Gantry Machining Center—Twin Table

On the basis of inheriting the high rigidity and high precision stability of the gantry machining center, this product adopts a dual (multi) station design to achieve parallel operations of machining and loading/unloading, significantly reducing waiting periods. It can also be integrated into automated production lines, creating an efficient "assembly line" operation that enhances utilization and production flexibility. This product is suitable for multi-variety, small-batch production of large and complex components in industries such as aerospace, mold manufacturing, automotive, and mechanical equipment.



		GM-80T2	GM-2013LT2	GM-2818LT2
Travel				
3-axis Travel(X/Y/Z)	mm	850/1100/600	3600/2100/800	4500/3050/800
Between Column	mm	1320	2400	3200
Distance From Spindle Nose To Table	mm	100-700	75-875	75-875
3-axis Guideway Width(X/Y/Z)	mm	35/35/35	45/45/Rectangular	55/45/Rectangular
Table				
Table Size	mm	1500×500	2000×1300	2800×1800
T-slot	mm	4×18×100	7×22×200	9×22×200
Max Weight on Table	kg	1000	5000	8000
Spindle				
Standard Spindle		Belt	Belt	Belt
Spindle Speed	rpm	6000	6000	6000
Spindle Power	kw	15-18.5	15-18.5	15-18.5
Spindle Taper		BT50	BT50	BT50
Feed				
Max Cutting Feed Rate (X/Y/Z)	m/min	10/10/6	7	7
Rapid Traverse(X/Y/Z)	m/min	15/15/10	10/10/6	10/10/6
3-axis Motor(X/Y/Z)	kw	3/3/3	3/3/3	3/3/3
Ball Screw Diameter/Pitch(X/Y/Z)	mm	40/12	X:80/16 Y:63/10 Z:50/10	X:80/16 Y:63/16 Z:50/10
Accuracy				
Positioning Accuracy	mm	0.012	0.018/0.018/0.015	0.018/0.018/0.015
Repeatability	mm	0.008	0.012/0.012/0.01	0.012/0.012/0.01
Other				
Air Pressure	kgf/cm ²	6.5	6.5	6.5
Machine Size(L*W*H)	mm	4760×2380×3460	9500×5500×4500	11500×6500×4500
Mass of Machine	kg	6000	31000	47000

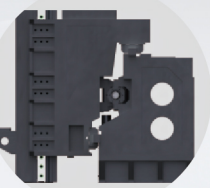
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X/Y-axis linear rail and Z-axis hard rail design
Provides high accuracy with excellent rigidity for heavy cutting

Ultra-wide column design
Increases the contact area of the beam to eliminate aftershock during processing

Full coverage of lubrication system
All moving parts are covered by the lubrication system, which realizes timing and quantitative automatic lubrication

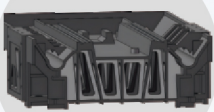
Oil-water separation
Easier chip removal, and avoided cutting fluid from stinking and leaking



Stepped beam structure
Widens the guideway to realize uniformly distributed load, while the head of the machine is close to the center of the beam to shorten the moment, providing high motion accuracy with excellent rigidity for heavy cutting

Diverse milling head configurations
Automatic Head Attachment Changer (AAC) can meet multiple cutting needs, such as simultaneous 5-axis cutting

Independent and parallel twin table design
The independent dual-station design enables continuous material handling without downtime, while the synchronous dual-station configuration maximizes utilization of both tables to accommodate diverse machining scenarios such as large panel processing, ensuring optimal adaptability across varied production requirements



V-shape bed structure
Provides high rigidity

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Spindle: 8,000/10,000rpm Direct-Drive
- Tool Magazine: 40T Runway Type
- CNC Indexing Plate (4th Axis / 5th Axis)
- Through-Spindle Coolant System
- Contact Tool Setter (Broken Tool Detector)
- Oil Mist Collector System
- 3-axis Linear Encoder
- Automatic Tool Setter
- Chip Conveyor

High-Speed Double Column Type Machining Center

This series of high-speed machining centers employs a high-rigidity gantry structure design. Leveraging its unique gantry configuration, the products exhibit full-travel support across all three axes, superior thermal stability, enhanced structural rigidity of the machine body, and reduced thermal deformation during machining processes. Compared to conventional vertical machining centers, they demonstrate exceptional body rigidity, dynamic performance, and long-term machining consistency. The series accommodates diverse material processing needs, ranging from titanium alloys to aluminum alloys, and supports applications spanning precision molds to high-accuracy component manufacturing. Beyond the optimized bed structure, the design integrates high-power/high-speed electric spindles, a low-thermal-deformation transmission system, and thermal compensation technology. These advancements effectively counteract thermal distortion, minimize heat-induced expansion effects, and maximize sustained machining precision and production efficiency across the series.



		HGM-1085	HGM-1713
Travel			
3-axis Travel(X/Y/Z)	mm	1020/850/500	1700/1300/700
Distance From Spindle Nose To Table	mm	180-680	180-880
Table			
Table Size	mm	1050×850	1900×1300
T-slot	mm	7×18×125	8×22×160
Max Weight on Table	kg	800	5000
Spindle			
Standard Spindle		Motorized	Motorized
Spindle Speed	rpm	20000	20000
Spindle Power	kw	18.5-30	18.5-30
Spindle Taper		HSK-A63	HSK-A63
Feed			
Max Cutting Feed Rate (X/Y/Z)	m/min	20	20
Rapid Traverse(X/Y/Z)	m/min	30/30/30	30/30/30
3-axis Motor(X/Y/Z)	kw	4/4/4	9/6/6
Accuracy			
Positioning Accuracy	mm	0.008/300	0.008/300
Repeatability	mm	0.004	0.004
Other			
Air Pressure	kgf/cm ²	6	6
Mass of Machine	kg	10000	21000
Floor Space	mm ²	2700×3000	5000×3600
Machine Height	mm	2960	3800

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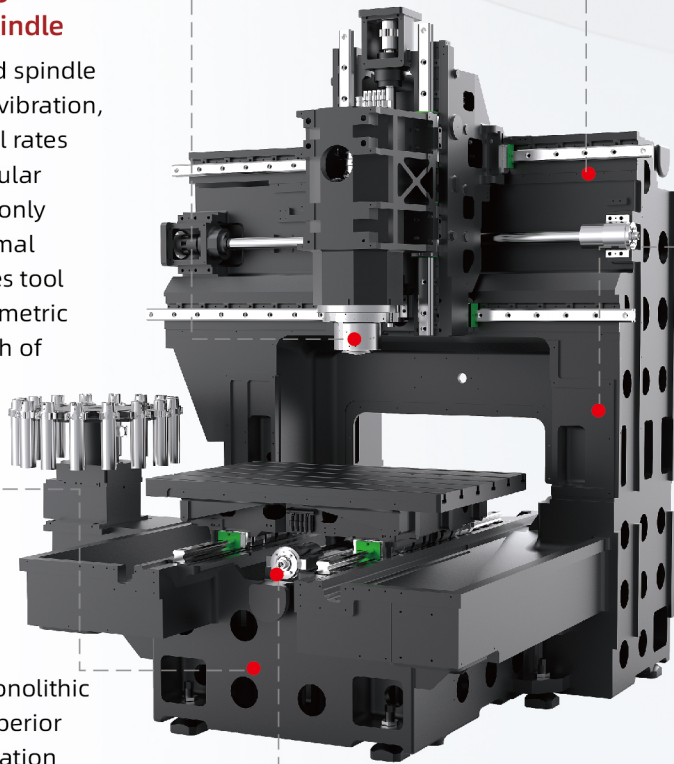


Standard-Equipped High-Power High-Speed Built-In Spindle

The high-speed integrated spindle offers low noise, reduced vibration, and high material removal rates during machining. Its annular coolant circuit design not only maintains consistent thermal stability but also minimizes tool deflection, improving geometric accuracy and surface finish of workpieces.

Large-Span Monolithic Cast Base Delivers High-Rigidity Foundation

Compared to traditional split-base designs, the monolithic cast structure provides superior rigidity and improved vibration damping effects, ensuring outstanding surface precision on finished products. The large-span base design also enhances structural rigidity, further elevating high-speed machining performance under heavy-duty loads while maintaining exceptional accuracy



Stepped Box-Type Beam Design Ensures High Dynamic Performance and Machining Stability

The box-type beam structure with stepped linear guide configurations minimizes the distance between the tool contact point and the beam. Coupled with a large-span saddle that delivers robust support to the spindle, this design significantly enhances cutting rigidity, ensuring flawless work-piece quality during high-speed machining operations

Monolithic Gantry Structure Provides Superior Vibration Resistance

Compared to traditional split cross-beam-column configurations in conventional gantry machining centers, the integrally formed portal frame structure delivers exceptional vibration damping capabilities and enhanced durability, achieving dramatically improved operational reliability



Large-Diameter Ball Screws Enhance Drive Rigidity

Utilizing screw specifications with larger dimensions than comparable-class machines, this design not only boosts transmission rigidity but also achieves higher and sustained positioning accuracy alongside improved dynamic responsiveness

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Spindle: 12,000/15,000 rpm Direct-Drive
- Tool Magazine: 40T Runway Type
- CNC Indexing Plate (4th Axis / 5th Axis)
- Through-Spindle Coolant System
- Contact Tool Setter (Broken Tool Detector)
- Oil Mist Collector System
- 3-axis Linear Encoder
- Automatic Tool Setter
- Chip Conveyor

Engraving and Milling Machine

This product series is a multifunctional machine designed for engraving and milling. This series has been widely applied to light cutting or fine finishing of small molds, such as copper parts, graphite, etc.



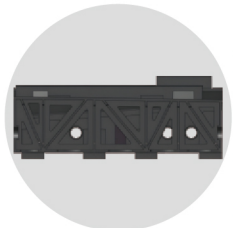
		SD-650	SD-760	SD-870	SD-8080	SD-1080	SD-650S	SD-8080S
Travel								
X-axis Travel	mm	500	600	700	800	800	500	800
Y-axis Travel	mm	600	700	800	800	1000	600	800
Z-axis Travel	mm	260	290	330	400	400	260	400
Spindle Nose to Table	mm	50-310	35-325	50-380	70-470	70-470	50-310	70-470
3-axis Guideway Width(X/Y/Z)	mm	30/30/25	30	30	35	35	30/30/25	35
Table								
Table Size	mm	500x600	600x700	800x700	800x800	800x1000	500x600	800x800
T-slot	mm	6x16x90	6x16x90	5x18x115	7x18x100	9x18x100	6x16x90	7x18x100
Max Weight on Table	kg	300	300	400	400	400	300	400
Spindle								
Standard Spindle		Motorized	Motorized	Motorized	Motorized	Motorized	Motorized	Motorized
Spindle Speed	rpm	3000-24000	3000-24000	3000-24000	3000-24000	3000-24000	3000-24000	3000-24000
Spindle Power	kw	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Spindle Taper		ER32	ER32	ER32	ER32	ER32	ER32	ER32
Feed								
Max Cutting Feed Rate (X/Y/Z)	m/min	8	8	8	8	8	8	8
Rapid Traverse(X/Y/Z)	m/min	15/15/15	15/15/15	15/15/15	18/18/15	18/18/15	15/15/15	18/18/15
3-axis Motor(X/Y/Z)	kw	1.7/1.7/17	1.7/1.7/1.7	1.7/1.7/2.4	1.7/1.7/2.4	2.4/2.4/1.7	1.7/1.7/1.7	1.7/1.7/2.4
Ball Screw Diameter/Pitch(X/Y/Z)	mm	32/5	32/5	32/8	X/Y:40/6; Z:32/5	X/Y:40/6; Y:40/12;Z:32/5	32/5	X/Y:40/6; Z:32/5
Accuracy								
Positioning Accuracy	mm	0.008	0.008	0.008	0.008	0.01	0.008	0.008
Repeatability	mm	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Other								
Air Pressure	kgf/cm ²	6	6	6	6	6	6	6
Mass of Machine	kg	3200	3600	4000	4800	5300	3200	4800
Floor Space	mm ²	1950x1895	1950x1975	2150x2500	2450x2150	2850x2150	1950x1895	2450x2150
Machine Height	mm	2355	2355	2465	2675	2675	2355	2675

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C3 level ball screw and P level linear guideway
Ensures the positioning accuracy and repeatability



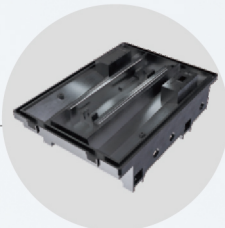
Special spindle headstock design
The headstock has high rigidity and high stability to ensure high-speed and high-precision machining



Diagonal rib structure machine bed
The stress point is directed directly to the anchor bolts, increasing rigidity, reducing deformation, and improving machining accuracy and stability

Meehanite cast iron
Machine body adopts Meehanite cast iron. Also, it is processed with aging treatment to eliminate internal stress, ensuring high rigidity and stability

High-precision and high-sensitivity automatic tool setter
Ensures automatic compensation of tool length to ensure machining accuracy



Water recovery structure bed
Effectively reduces the loss of coolant and avoids the pollution caused by the leakage of coolant

Fully enclosed design
Avoids corrosion and pollution of machine tool accessories and electronic components by graphite dust (Suitable for Graphite CNC)

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Spindle: BT30 Motorized Spindle
- Tool Magazine: 12T BT30 Hat Type, 16T BT30 Disk Type
- CNC Indexing Plate (4th Axis / 5th Axis)
- Oil Mist Collector System
- Automatic Power-Off Device
- Contact Tool Setter (Broken Tool Detector)
- Heat Exchanger
- 3-axis Linear Encoder
- Rigid Tapping
- Chip Conveyor

High-Speed Drilling and Tapping Machining Center

This product series is designed based on most major CNC system brands, working perfectly with system drives and motor types from most major CNC system companies. High-precision 3-axis linkage can be realized on this product. It has been designed for complex and multiple procedures with high-precision purposes. This series perfectly fits any industry requiring various types of machine tools, cutting tools, technological equipment, or any industry that employs batch production requiring multiple times of clamping and adjusting, such as electronic, automobile, aviation, shipbuilding, especially suitable for high-speed drilling and tapping machining in small and medium-sized parts and milling.

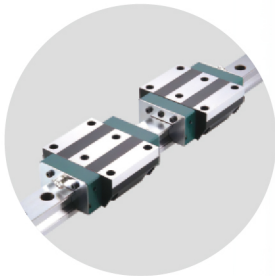


		T-600	T-700	T-800
Travel				
3-axis Travel(X/Y/Z)	mm	600/390/300	700/430/300	800/500/330
Spindle Nose to Table	mm	150-450	150-450	150-480
Spindle Center to Column	mm	464	464	546
3-axis Guideway Width(X/Y/Z)	mm	30	30	35
Table				
Table Size	mm	700x420	800x420	1000x500
T-slot	mm	3x14x125	3x14x125	5x18x100
Max Weight on Table	kg	250	300	350
Spindle				
Standard Spindle		Direct-Drive	Direct-Drive	Direct-Drive
Spindle Speed	rpm	20000	20000	20000
Spindle Power	kw	3.7-5.5	3.7-5.5	3.7-5.5
Spindle Taper		BT30	BT30	BT30
Tool Magazine				
Tool Magazine Capacity		21	21	21
Max Tool Mass	kg	3	3	3
Max Tool Length	mm	200	200	200
Max Diameter(Full Tool /Adjacent Empty Tool)	mm	Φ60/Φ80	Φ60/Φ80	Φ60/Φ80
Feed				
Max Cutting Feed Rate(X/Y/Z)	m/min	12	12	12
Rapid Traverse(X/Y/Z)	m/min	48/48/48	48/48/48	48/48/48
3-axis Motor(X/Y/Z)	kw	1.5/1.5/3	1.5/1.5/3	2/2/3
Ball Screw Diameter/Pitch(X/Y/Z)	mm	X/Y: 28/16;Z:32/16	X/Y: 28/16;Z:32/16	32/16
Accuracy				
Positioning Accuracy	mm	0.008	0.008	0.008
Repeatability	mm	0.006	0.006	0.006
Other				
Air Pressure	kgf/cm²	6.5	6.5	6.5
Mass of Machine	kg	3100	3500	4000
Machine Size (L*W*H)	mm	1850*2630*2370	2050*2730*2370	2250*2830*2370

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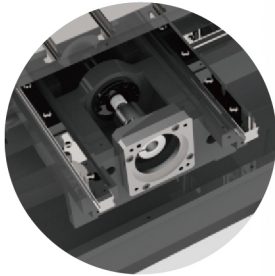
Sun type tool magazine

A high-speed magazine swaps tools quickly, providing more effective machining



Linear ball rail for all 3 axis

Provides ultra-high precision with high-speed performance



Motor seat integrated design

The motor seat adopts one-piece molding technology and is matched with a precision shaft sleeve, which better improves the rigidity and concentricity of the X-axis motor and meets the requirements of high-speed and high-precision processing

Z-axis brake and no counter weight design

no-vibration high precision vertical movement with high-speed performance



Heavy body and box columns design

Provides excellent rigidity and high stability

Rear chip removal design

More convenient in cleaning



CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Spindle: BT30 24,000 rpm Direct Drive
- Tool Magazine: 16T BT30 Sun Type
- CNC Indexing Plate (4th Axis / 5th Axis)
- Through-Spindle Coolant System
- Contact Tool Setter (Broken Tool Detector)
- Oil Mist Collector System
- 3-axis Linear Encoder
- Automatic Tool Setter
- Chip Conveyor

CNC Horizontal Lathe—Fixed Tooling

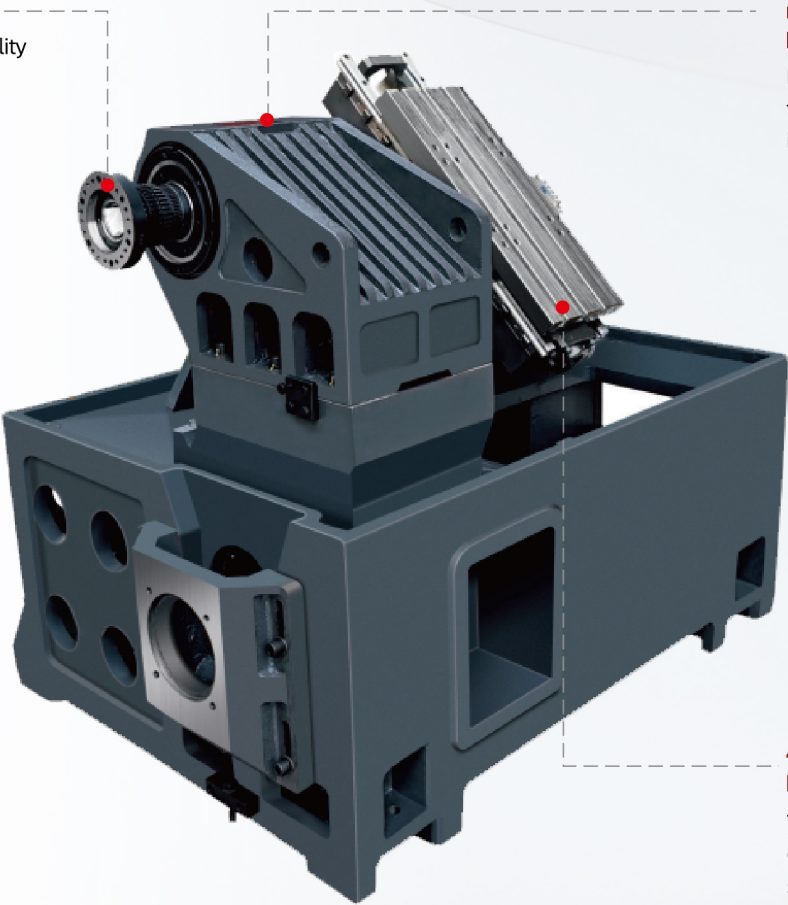
This product is capable of multi-axis machining and is used for the turning of various shaft-type and disc-type components. It is suitable for the high-volume production of small parts and can machine various types of threads, internal and external cylindrical surfaces, tapered surfaces, as well as internal and external contours of rotational bodies. It is widely applied in industries such as automotive, electronics, optics, rail transportation, home appliances, and engineering machinery.



		HLF-180	HLF-420
Range			
Max Turning Diameter	mm	240	425
Max Workpiece Length	mm	/	/
Spindle			
Spindle Taper		/	A2-5
Spindle Hole Diameter	mm	Φ26	Φ56
Spindle Speed	rpm	6000	6000
Spindle Power	kw	/	/
Tailstock			
Sleeve Taper		/	/
Sleeve Diameter	mm	/	/
Max Tailstock Travel	mm	/	/
Travel			
X-axis Travel	mm	280	900
Z-axis Travel	mm	180	420
Y-axis Travel	mm	/	/
Feed			
X/Z Motor Power	kw	1.7	1.7
X-axis Rapid Traverse	m/min	18	30
Z-axis Rapid Traverse	m/min	18	30
X-axis Guideway Width	mm	20	30
Z-axis Guideway Width	mm	25	30
Accuracy			
X-axis Repeatability	mm	0.003	0.005
Z-axis Repeatability	mm	0.003	0.006
Servo Turret			
Station Number		/	/
Other			
Mass of Machine	kg	1000	2850
Floor Space	mm	1446×1169	2195×1705
Machine Height	mm	1531	1790

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Horizontal headstock
Provide stronger processing stability



One-piece structure of saddle motor and flange bearing housing
Ensure excellent rigidity, machine tool accuracy, and repeatability, improving reliability

45-degree one-piece machine bed
The integral slant bedstructure of the base provides high rigidity, strong anti-vibration capability, and is suitable for heavy duty cutting

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Air Conditioner Cabinet
- Contact Tool Setter (Broken Tool Detector)
- Oil Mist Collector System
- Chip Conveyor

CNC Horizontal Lathe—Servo Turret

This product enables multi-axis turning and is used to process various shaft and disc components. It can turn various types of threads, internal and external cylinders, cones, as well as internal and external surfaces of revolving bodies. The product is widely applied in industries such as automotive, electronics, optics, rail transit, home appliances, and engineering machinery.



		HL-400	HL-530	HL-550	HL-800	HL-1150
Range						
Max Turning Diameter	mm	470	450	560	570	640
Max Workpiece Length	mm	370	500	545	750	1100
Spindle						
Spindle Taper		A2-5	A2-6	A2-6	A2-6	A2-8
Spindle Hole Diameter	mm	φ56	φ66	φ66	φ66	φ86
Spindle Speed	rpm	6000	4500	4500	4300	3000
Spindle Power	kw	7.5	11	11	11	11
Tailstock						
Sleeve Taper		/	MT-4	MT-5	MT-5	MT-5
Sleeve Diameter	mm	/	Φ72	Φ95	Φ80	Φ150
Max Tailstock Travel	mm	/	400	450	720	1080
Travel						
X-axis Travel	mm	260	250	260	255	370
Z-axis Travel	mm	400	530	550	800	1150
Y-axis Travel	mm	/	/	/	/	/
Feed						
X/Z Motor Power	kw	1.7	2.4	2.4	2.4	4
X-axis Rapid Traverse	m/min	24	30	30	24	24
Z-axis Rapid Traverse	m/min	24	30	30	24	24
X-axis Guideway Width	mm	30 (Roller)	35 (Roller)	35 (Roller)	45 (Roller)	45 (Roller)
Z-axis Guideway Width	mm	35 (Roller)	35 (Roller)	35 (Roller)	45 (Roller)	55 (Roller)
Accuracy						
X-axis Repeatability	mm	0.005	0.005	0.005	0.005	0.005
Z-axis Repeatability	mm	0.006	0.006	0.006	0.006	0.008
Servo Turret						
Station Number		12	12	12	12	12
Other						
Mass of Machine	kg	2825	4200	4200	4000	7550
Floor Space	mm	2225×1530	2865×1865	2865×1865	2100×1386	3750×2130
Machine Height	mm	1950	1950	1950	1435	1900

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Horizontal headstock
Provide stronger processing stability

One-piece structure of saddle motor and flange bearing housing
Ensure excellent rigidity, machine tool accuracy, and repeatability, improving reliability

35-degree one-piece machine bed
The integral slant bedstructure of the baseprovides high rigidity, strong anti-vibration capability, and is suitablefor heavy duty cutting

Horizontal hard-rail tailstock with V-shape guideway and square guideway
The tailstock adopts a"V-guide+square guide" structure to improve stability of tailstock

High precision sleeve-type hydraulic tailstock

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Programmable Tailstock
- Air Conditioner Cabinet
- Water Gun
- Contact Tool Setter (Broken Tool Detector)
- Oil Mist Collector System
- Chip Conveyor

CNC Horizontal Lathe—Turn and Mill

This product enables multi-axis turning and turn and mill machining, and is used for processing various shaft and disc components. In addition to turning various threads, internal and external cylinders, tapered surfaces, and internal and external curved surfaces of revolving bodies, it can also perform axial and radial drilling, reaming, boring, as well as plane and surface milling. This product is widely applied in industries such as automotive, electronics, optics, rail transportation, home appliances, and engineering machinery.



		HL-400YT	HL-550YT	HL-800YT	HL-1120YT
Range					
Max Turning Diameter	mm	570	640	650	720
Max Workpiece Length	mm	335	500	680	1090
Spindle					
Spindle Taper		A2-5	A2-6	A2-6	A2-8
Spindle Hole Diameter	mm	φ56	φ66	φ66	φ86
Spindle Speed	rpm	6000	4500	4300	3000
Spindle Power	kw	7.5	11	11	11
Tailstock					
Sleeve Taper		/	MT-5	MT-5	MT-5
Sleeve Diameter	mm	/	φ95	φ80	φ150
Max Tailstock Travel	mm	/	400	720	1080
Travel					
X-axis Travel	mm	260	260	255	370
Z-axis Travel	mm	400	550	800	1120
Y-axis Travel	mm	±35 (BMT40-15T)	±50 (BMT45-15T)	±45 (BMT55-12T)	±75 (BMT55-12T)
Feed					
X/Z Motor Power	kw	2.4	2.4	2.4	4
X-axis Rapid Traverse	m/min	24	18	24	24
Z-axis Rapid Traverse	m/min	24	18	24	24
X-axis Guideway Width	mm	30 (Roller)	35 (Roller)	45 (Roller)	45 (Roller)
Z-axis Guideway Width	mm	35 (Roller)	35 (Roller)	45 (Roller)	55 (Roller)
Accuracy					
X-axis Repeatability	mm	0.005	0.005	0.005	0.005
Z-axis Repeatability	mm	0.006	0.006	0.006	0.008
Servo Turret					
Live Tools Interface		BMT40	BMT45	BMT55	BMT55
Station Number		15	15	12	12
Other					
Mass of Machine	kg	3115	4450	4100	8800
Floor Space	mm	2225×1630	2850×1865	2100×1386	3750×2405
Machine Height	mm	2120	2040	1435	2350

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Horizontal headstock
Provide stronger processing stability

One-piece structure of saddle motor and flange bearing housing
Ensure excellent rigidity, machine tool accuracy, and repeatability, improving reliability

35-degree one-piece machine bed
The integral slant bedstructure of the baseprovides high rigidity, strong anti-vibration capability, and is suitablefor heavy duty cutting

Horizontal hard-rail tailstock with V-shape guideway and square guideway
The tailstock adopts a"V-guide+square guide" structure to improve stability of tailstock

High precision sleeve-type hydraulic tailstock

CNC system

- Mitsubishi
- FANUC
- Syntec
- Siemens

Optional Accessories

- Programmable Tailstock
- Air Conditioner Cabinet
- Water Gun
- Contact Tool Setter (Broken Tool Detector)
- Oil Mist Collector System
- Chip Conveyor

High-Quality Accessories

High-quality accessories are important components of our machines. Our accessories are well-chosen and manufactured by well-known corporations in German, Japan, Taiwan, etc.



Spindle



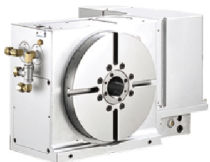
Tool Magazine



Chip Conveyor



Oil Mist Collector System



CNC Indexing Plate



Oil Cooler



Tool Setter



Auto Workpiece Probes



Indexing Head



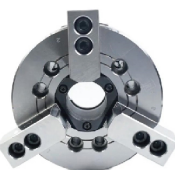
5-axis Milling Head



Linear Encoder



Turret



Lathe Chuck



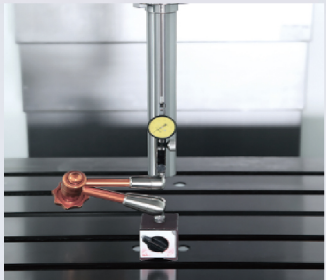
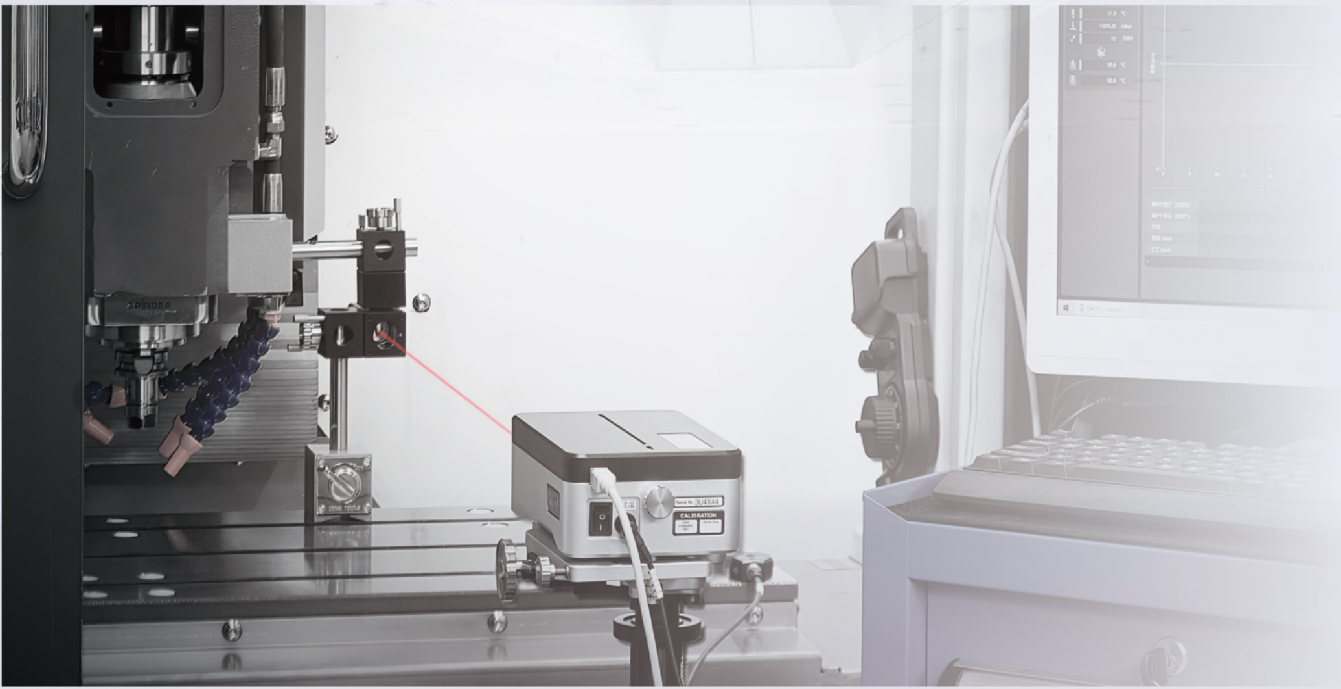
Coolant Through Spindle



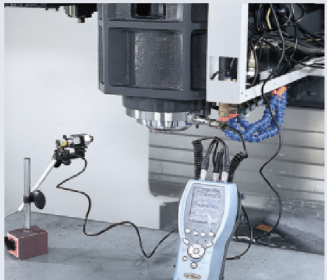
Gear Head

Strict Inspection

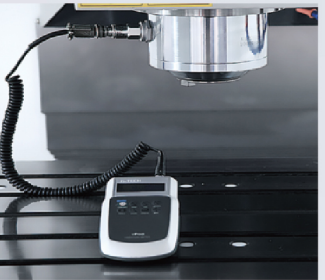
In order to provide excellent product, we carry out high-standard inspection of our product and implement perfect quality requirement in every process.



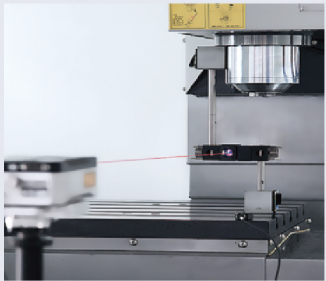
Spindle Deflection Testing



Spindle Dynamic Balance Test



Spindle Vibration Test



Laser Test



Ballbar Test



Coordinate Measuring Test