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ZHONGNAN INTELLIGENT TECHNOLOGY CO., LTD.



Vertical Machining Center



Gantry Machining Center



Horizontal Machining Center



Tapping Center



Horizontal Machining Center



NANTONG ZHONGNAN INTELLIGENT TECHNOLOGY CO.,LTD.

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精湛科技 秉承专业

100,000

Square Meters
Manufacturing Park

100+
Sets
of Manufacturing and Inspection Equipment

Production Capacity
3000+
Sets
of Machine Tools/Year



Casting and Heat Treatment Division

Sheet Metal Machining and Painting Division

Machining Division

Assembly Production Division

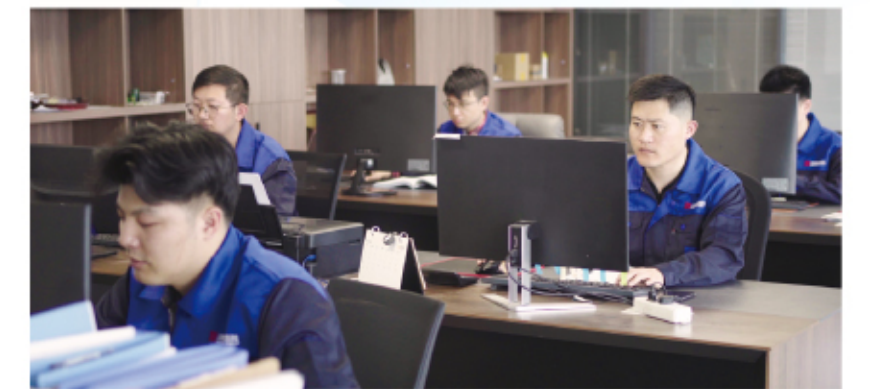
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Company Profile

Nantong Zhongnan Intelligent Technology owns Zhongnan CNC technology, Zhongnan Intelligent, Xinsheng CNC technology and other subsidiaries such as foundry factory. Since its establishment in 2000, Zhongnan started with producing surface grinding machines, and gradually developed into high-end CNC machining center and manufacturing with production lines of CNC vertical machining center, high-precision gantry machining center, horizontal machining center, CNC vertical and horizontal milling machines, Zhongnan is one of the reputed manufacturers covers full

production lines in the metal cutting machines industry in China. The products of the group company are widely used in military industry, aerospace, automobile, green energy, mold and other fields of manufacturing.

Zhongnan Intelligent Technology has a production park covers 100,000 square meters. There are more than 380 employees, 30 senior engineers, and 20 R&D engineers. Production capacity covers the entire production chain of casting manufacturing, machining, painting, assembly, commissioning, inspection, etc.



Production Environment

Modernized and environment friendly workshops enable us to produce machines for the future.

From R&D, Casting, Machining, Assembly, to Commission and final Delivery Complete Production Line to make sure all details in best condition



Advance Foundry Production Line



Green Environmental Protection Painting Line



Clean and High Efficiency Assembly Production Line

Development History

In 2000, in the Nantong Gangzha Economic Development Zone, known as the North Shanghai, Nantong Zhongnan Intelligent Technology Co., Ltd., which is dedicated to the development of high-end CNC machine tools and production lines, started its business here.

With the continuous development and growth of more than 20 years, Nantong Zhongnan Intelligent Technology Group now has many subsidiaries such as Zhongnan CNC, Zhongnan Intelligent, Xinsheng CNC, and Chuangjia Machinery.

With the continuous development and growth of more than 20 years, Nantong Zhongnan Intelligent Technology Group now has many subsidiaries such as Zhongnan CNC, Zhongnan Intelligent, Xinsheng CNC, and Chuangjia Machinery. And built an industrial park of 100,000 square meters, with the manufacturing capacity of the complete production line of CNC machine tools.

Focusing on R&D and manufacturing of CNC machine tools for more than 20 years to produce more accurate, stable and energy-saving CNC machine tools



1999

Established Nantong Gangzha Machine Tool Factory, which is mainly engaged in machine tool manufacturing, machining, moulds, and non-ferrous metal casting.

01

2000

Established Nantong Zhongnan CNC Machine Tool Manufacturing Co., Ltd. and began to produce precision surface grinding machines.

02

2003

Established Nantong Xinsheng CNC Machine Tool Co., Ltd. Began to produce gantry milling machines, CNC gantry grinders, etc.

03

2010

The group began to develop and manufacture CNC machine tools. The tapping center is widely sold in the market and reputed in the market.

04

2013

4500 sets of CNC machines in this year.

05

2017

Established Nantong Zhongnan Intelligent Technology Co., Ltd. Modern workshops further improved production efficiency and quality.

06

2020

Established Jiangsu Chuangjia Machinery Co., Ltd. It has a modern casting production line with high environmental protection requirements.

07



R&D and Manufacturing



Zhongnan Intelligent Technology Group focuses on technological breakthroughs and precision manufacturing of machine tools and molds. Supported by a number of core technologies with independent patents, Zhongnan focuses on CNC vertical machining centers, high-precision gantry machining centers, horizontal machining centers, and CNC vertical and horizontal machining centers, CNC milling machines, CNC lathes, turning and milling centers, and various other special-purpose machine tools. Serving various fields such as military industry, aerospace, automobile manufacturing, new energy, molds, etc..

Professional equipment makes perfection



More than
380
employees

30
senior engineers

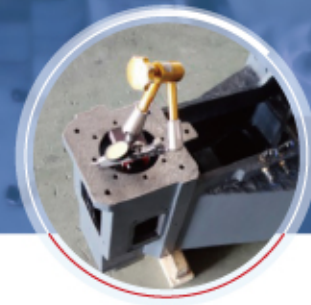
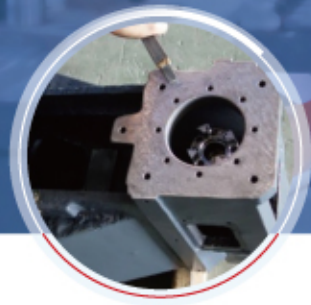
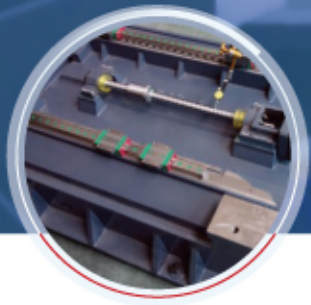
20
R&D engineers

Zhongnan Intelligent Technology has a technical innovation team led by the general manager, with more than 380 employees, 30 senior engineers and 20 R&D engineers. At the same time, the industry-university-research cooperation with colleges and universities has laid a talent foundation and technical foundation for future development.

Quality Inspection

Sub-research thinking, promote innovation and development

Strict inspection and test, insisting on quality is the consistent tradition of Zhongnan Intelligent Technology. Zhongnan has its own R&D center and research institute, and has invested heavily in an advanced CAD design center. We have successively purchased advanced testing equipment such as profilometers, roundness meters, and laser interferometers, providing strong support for the company's products to quickly respond to market demand, with an annual production capacity of more than 3,000 sets.



1 Ball Screw Align

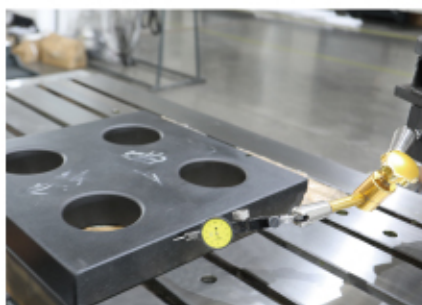
2 Linear Guideway Align

3 Spindle Joint Surface Align

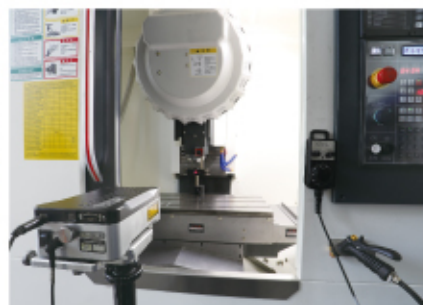
4 Spindle Motor Base Align

5 3-axis Motor Base Align

6 Scraping of Joint Surface of Bed and Column



Assembly Process Inspection



Laser Inspection



Ballbar Inspection



Scraping of Joint Surface



CMM Inspection



Dynamical Balance Testing

Vertical Machining Center

New generation high-precision



CNC Vertical Machining Center (VMC) is a precision machine tool that uses controlled X, Y, and Z-axis movements to drill, cut, and shape metal and other materials into complex aerospace, medical, automotive, and industrial parts. The VMC has a vertical spindle that moves up and down, and a worktable that moves in two or three directions to allow the cutting tool to approach the workpiece from different angles. The CNC controller directs the tool path, speed, and feed rate, allowing for precise and repeatable machining operations. CNC vertical machining centers are used in production environments for high-precision milling, drilling, and tapping operations in one setup, reducing cycle time and increasing productivity.

Features:

- The whole machine is made of high-grade resin sand casting, which eliminates internal stress after annealing, vibration and natural aging.
- One-piece ultra-wide base, providing stable load support.
- The H-shaped columns with widened joint span improve the rigidity of the machine
- Imported C3 grade ball screw and pre-tensioning are used to ensure the accuracy of axial movement.
- Optional gear-type spindle greatly improves cutting capacity and efficiency.



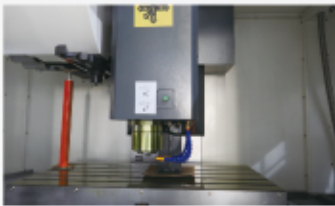
Vertical Machining Center

New generation High efficiency

V Series Vertical Machining Center uses high-precision linear guide guideways for all three axes. Machine is equipped with the mature spindle system and feed system to ensure stability and reliability. The fully covered protection provides a good working environment for operators.

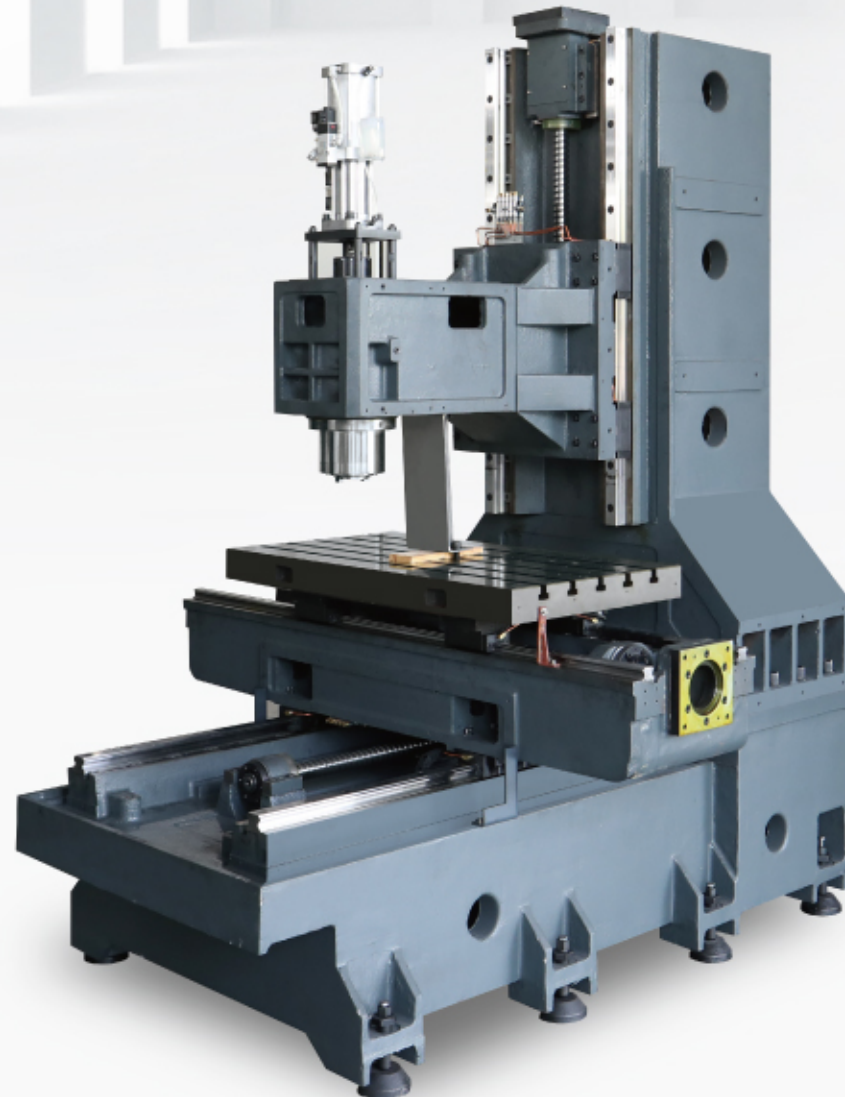
Spindle

The spindle adopts a high-speed and high-precision spindle unit, which is designed with an air curtain protection function and equipped with cooling, temperature rise of the spindle is small, thermal deformation is small to get better machining accuracy.



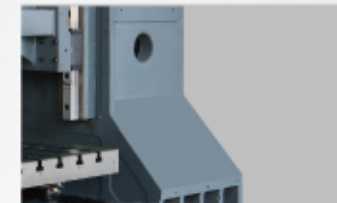
ATC system

Equipped with 24 pieces drum magazine. The tool change response speed is fast, stable, safe and reliable. The tool can be changed nearby, shorten changing time.



Large span herringbone column

Large span column design with reinforcing ribs inside to increase rigidity of machine to increase stability of machining.



Ballscrew and Linear Guideway

Imported C3 grade ball screw and pre-tensioned backlash-free design to achieve high precision.

Imported P grade heavy load linear guideways are used to ensure no vibration during cutting and produce high-quality parts.



Configurations

No.	Name	Quantity	Remark
1	Fanuc Oi MF	1	
2	Remote	1	
3	Drum Magazine	1	24 pieces
4	Automatic lubrication	1	
5	Spindle blowing system	1	
6	Air curtain protection	1	
7	Standard tooling	1 set	
8	Cooling system with tank and double pumps	1	
9	LED working lamp	1	
10	3-color working lamp	1	
11	Flushing system	1	
12	Cleaning water gun and air gun	1	

Vertical Machining Center

Vertical machining center with 3 axes linear guideway

		V640	V850	V855	V966	V1066	V1160	V1165	V1266	V1270	V1370	V1580
Worktable dimension(L×W)	mm	700×420	1000×500	1000×550	1100×650	1200×650	1300×600	1300×650	1300×650	1360×700	1360×700	1700×800
Max load of worktable	kg	350	350	500	600	700	800	800	800	1000	1000	1500
T groove (quantity×width×distance)	mm	3×18×125	5×18×90	5×18×90	5×18×125	5×18×125	5×18×100	5×18×125	5×18×125	5×18×122	5×18×122	5×22×135
X axis travel	mm	600	800	830	900	1000	1100	1150	1200	1200	1300	1500
Y axis travel	mm	450	500	550	700	700	600	650	700	700	700	800
Z axis travel	mm	480	580	550	700	700	600	680	700	670	670	700
Spindle end to worktable	mm	120-600	80-660	120-670	120-820	120-820	120-720	120-800	120-820	170-840	170-840	130-830
Spindle center to column	mm	460	520	565	700	700	650	690	700	785	785	810
Spindle type		BT40	BT40	BT40	BT40	BT40	BT40	BT40	BT40	BT40/BT50	BT40/BT50	BT50
Speed of spindle	r.p.m	10000/12000	10000/12000	10000/12000	10000/12000	10000/12000	10000/12000	10000/12000	10000/12000	8000/12000	8000/12000	8000/12000
Drive of spindle		belt/direct	belt/direct	belt/direct	belt/direct	belt/direct	belt/direct	belt/direct	belt/direct	belt/direct	belt/direct	belt/direct
Power of spindle	kW	5.5/7.5	7.5/11	11/15	11/15	11/15	11/15	11/15	11/15	15/18.5(11/15)	15/18.5(11/15)	15/18.5(11/15)
Torque of motor(X/Y/Z)	N·m	7/7/20	11/11/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	27/27/27	27/27/27	27/27/27
CNC system		FANUC-0i MF MITSUBISHI M80 SENMENS (Optional)					FANUC-0i MF MITSUBISHI M80 SENMENS (Optional)					
Rapid feed of X/Y/Z	mm	48/48/48	48/48/48	36/36/36	36/36/36	36/36/36	30/30/30	30/30/30	30/30/30	24/24/20	24/24/20	20/20/20
Capacity of magazine	把	24	24	24	24	24	24	24	24	24	24	24
Positioning accuracy	mm	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.012	0.012	0.012
Repositioning accuracy	mm	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.008	0.008	0.008
Air supply	kg/cm ²	6	6	6	6	6	6	6	6	6	6	6
Weight of machine	kg	4200	5000	5800	7000	7500	7000	7000	8000	9500	10000	12500
Dimension(L×W×H)	mm	2200×2100×2500	2500×2500×2650	2500×2400×2650	3000×2700×2700	3100×2700×2700	3160×2600×2850	3160×2600×2850	3500×2700×2700	3600×3000×3400	3600×3000×3400	4300×3500×3500

* Due to continuous improvement of the model and the latest technical data, please contact our marketing department: 86-513-8555 2666.

Vertical Machining Center

Vertical machining with X&Y linear guideway and Z axis flat guideway

		L850	L855	L966	L1066	L1160	L1165	L1266	L1270	L1370	L1580	L1690	L1890
Worktable dimension(L×W)	mm	1000×500	1000×550	1100×650	1200×650	1300×600	1300×600	1300×650	1360×700	1360×700	1700×800	1800×900	2000×900
Max load of worktable	kg	450	500	600	700	800	800	800	1000	1000	1500	1600	1600
T groove (quantity×width×distance)	mm	5×18×90	5×18×90	5×18×125	5×18×125	5×18×100	5×18×125	5×18×125	5×18×122	5×18×122	5×22×135	5×22×165	5×22×165
X axis travel	mm	800	830	900	1000	1100	1150	1200	1200	1300	1500	1600	1800
Y axis travel	mm	500	550	700	700	600	650	700	700	700	800	900	900
Z axis travel	mm	550	550	700	700	600	680	700	600	600	700	845	845
Spindle end to worktable	mm	110-660	120-670	120-820	120-820	120-720	120-800	120-820	80-680	80-680	130-830	150-995	150-995
Spindle center to column	mm	560	565	660	660	650	690	660	785	785	810	900	900
Spindle type		BT40	BT40	BT40	BT40	BT40	BT40	BT40	BT40/BT50	BT40/BT50	BT50	BT50	BT50
Speed of spindle	r.p.m	8000/10000	8000/10000	8000/10000	8000/10000	8000/10000	8000/10000	8000/10000	8000/10000	8000/10000	6000/8000	6000	6000
Drive of spindle		Belt drive	Belt drive	Belt drive	Belt drive	Belt drive	Belt drive	Belt drive	Belt drive	Belt drive	Belt drive	Belt drive	Belt drive
Power of spindle	kW	7.5/11	11/15	11/15	11/15	11/15	11/15	11/15	15/18.5(11/15)	15/18.5(11/15)	15/18.5	15/18.5	15/18.5
Torque of motor(X/Y/Z)	N·m	11/11/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	20/20/20	27/27/27	27/27/27	36/36/36	36/36/36	36/36/36
CNC system		FANUC-0i MF MITSUBISHI M80 SENMENS (Optional)					FANUC-0i MF MITSUBISHI M80 SENMENS (Optional)						
Rapid feed of X/Y/Z	mm	48/48/20	36/36/20	36/36/20	36/36/20	36/36/20	36/36/20	36/36/20	24/24/20	24/24/20	20/20/15	20/20/15	18/18/15
Capacity of magazine	把	24	24	24	24	24	24	24	24	24	24	24	24
Positioning accuracy	mm	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.012	0.012	0.012	0.012	0.012
Repositioning accuracy	mm	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.008	0.008	0.008	0.008	0.008
Air supply	kg/cm ²	6	6	6	6	6	6	6	6	6	6	6	6
Weight of machine	kg	5300	5800	7500	8000	7500	7500	8500	10000	10500	13000	13500	14500
Dimension(L×W×H)	mm	2500×2500×2650	2500×2400×2650	3000×2700×2700	3100×2700×2700	3160×2600×2850	3160×2600×2850	3500×2700×2700	3600×3000×3400	3600×3000×3400	4300×3500×3500	4400×3500×3800	4500×3500×3800

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Vertical Machining Center

Vertical machining center with XYZ flat guideway

		850	855	1060	1270	1370	1580	1690	1890
Worktable dimension(L×W)	mm	1100×500	1000×550	1300×600	1360×700	1360×700	1700×800	1800×900	2000×900
Max load of worktable	kg	500	500	800	1000	1000	1500	1600	1600
T groove (quantity×width×distance)	mm	5×18×90	5×18×90	5×18×120	5×18×152.5	5×18×152.5	5×22×135	5×22×165	5×22×165
X axis travel	mm	800	850	1000	1200	1300	1500	1600	1800
Y axis travel	mm	500	550	600	700	700	800	900	900
Z axis travel	mm	550	550	600	680	680	700	845	845
Spindle end to worktable	mm	105-655	130-680	120-720	87-767	87-767	197-897	150-995	150-995
Spindle center to column	mm	550	600	600	785	785	810	900	900
Spindle type		BT40	BT40	BT40	BT50	BT50	BT50	BT50	BT50
Speed of spindle	r.p.m	8000	8000	8000	8000	8000	6000	6000	6000
Drive of spindle		Belt drive	Belt drive	Belt drive	Belt drive	Belt drive	Belt drive	Belt drive	Belt drive
Power of spindle	kW	7.5/11	7.5/11	11/15	11/15	11/15	15/18.5	15/18.5	15/18.5
Torque of motor(X/Y/Z)	N·m	11/11/11	11/11/20	20/20/20	27/27/27	27/27/27	36/36/36	36/36/36	36/36/36
CNC system		FANUC-0i MF MITSUBISHI M80 SENMENS (Optional)			FANUC-0i MF MITSUBISHI M80 SENMENS (Optional)				
Rapid feed of X/Y/Z	mm	16/16/16	16/16/16	16/16/16	16/16/16	16/16/16	15/15/15	15/15/15	15/15/15
Capacity of magazine	把	24	24	24	24	24	24	24	24
Positioning accuracy	mm	0.008	0.008	0.008	0.012	0.012	0.015	0.015	0.015
Repositioning accuracy	mm	0.005	0.005	0.005	0.008	0.008	0.01	0.01	0.01
Air supply	kg/cm ²	6	6	6	6	6	6	6	6
Weight of machine	kg	5300	6300	7500	10000	10500	13000	13500	14500
Dimension(L×W×H)	mm	2400×2100×2500	2700×2300×2600	3500×2700×2650	3600×3000×2700	3600×3000×2700	4300×3500×3500	4400×3500×3800	4500×3500×3800

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Gantry Machining Center

High rigidity Stability Reliability

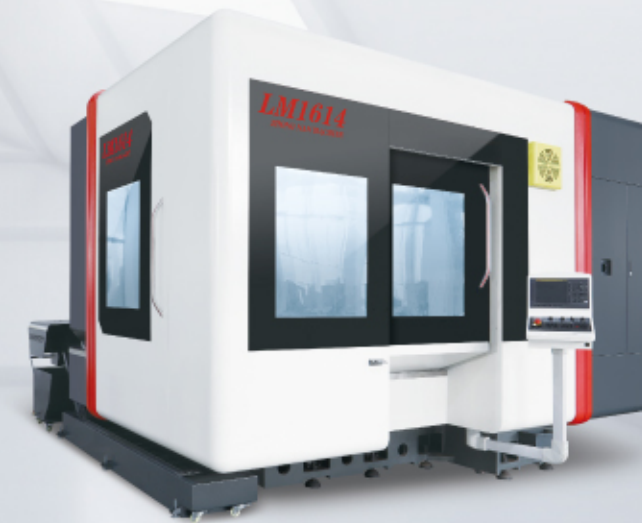


The gantry machining center has a compact structure, wide capacity of machining, good rigidity and vibration resistance. It can do milling, boring, drilling, tapping and other machinings. It is mainly suitable for the precision machining of concave and convex molds in the mold industry, complex cavities and surfaces. It is also suitable for precision machining of large and medium-sized parts in industries such as general machinery, automobiles, aerospace, instrumentation, and textile machinery.

Typical applications such as precision machining of complex parts like molds, large plates, disks, and medium and large shells.

Features:

- It adopts high-rigidity gantry symmetrical structure, high cutting rigidity and stable running precision.
- The beam adopts a stepped design structure to control the force and deformation within the effective range.
- The Z-axis is equipped with a hard rail headstock as standard. The cabinet adopts high damping and high rigidity ductile iron structure, which can effectively suppress cutting vibration.
- The whole series can be equipped with imported gearboxes, through hydraulic shifting, two-speed transmission, to achieve high torque output.



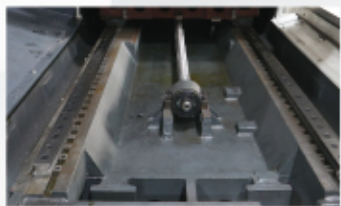
High rigidity
 Stability
 Reliability

Gantry Machining Center

The whole machine adopts the gantry structure with moving table. The machine bed is fixed, Worktable moves in the X direction on the bed, the ram moves in the Z direction on the slide seat, and the slide seat and the ram move in the Y direction on the gantry beam. The X and Y axes adopt heavy-duty linear guideways, and the Z axis adopts plastic-coated flat guideway. The spindle box is placed at the lower end of the ram. The whole machine has feature of reasonable design, beautiful appearance and convenient operation.



Imported gearbox is optional to improve cutting efficiency

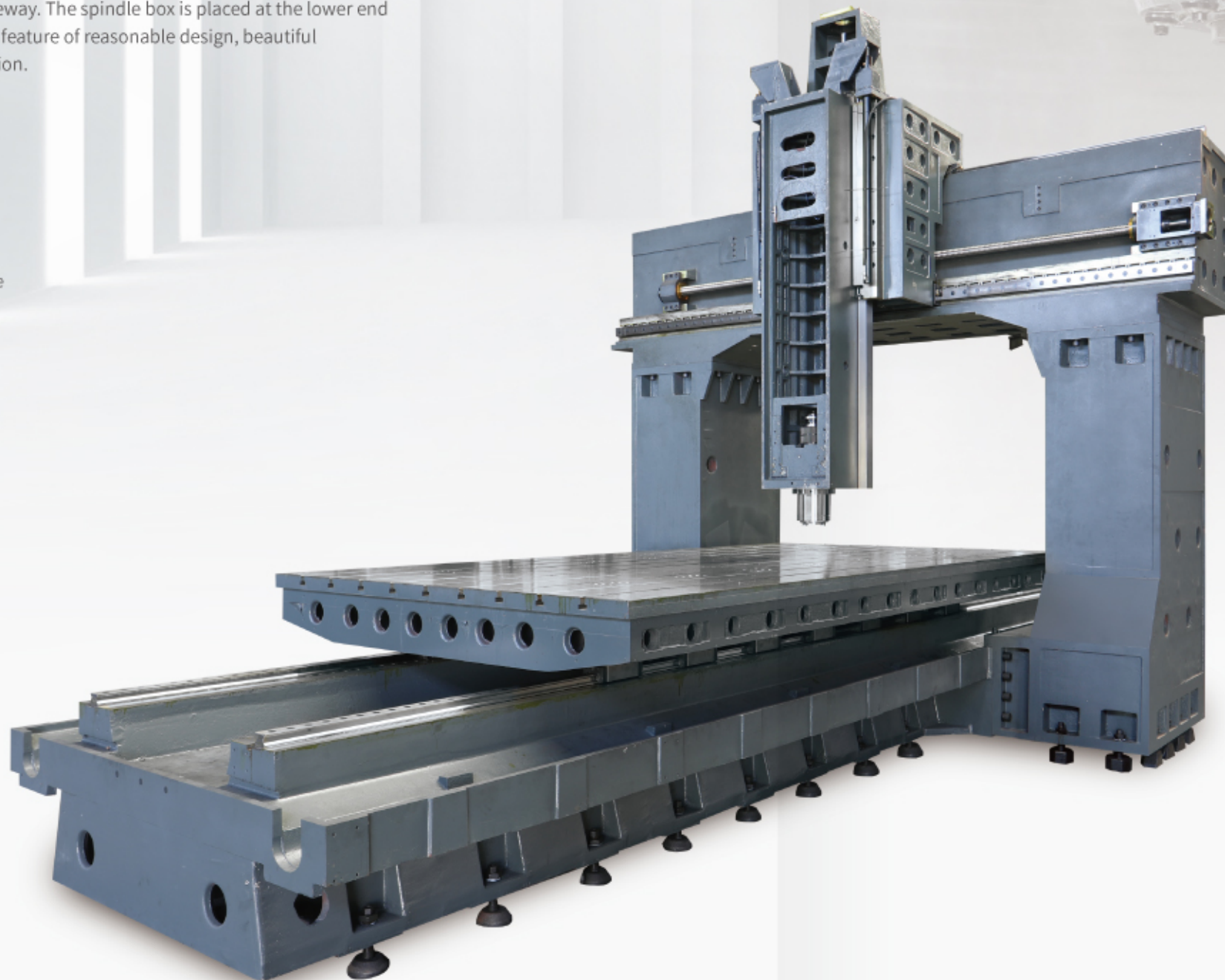


XY axis with precision linear guideway, and Z axis with high rigidity flat guideway, which is suitable for heavy load and heavy duty cutting.

The Z-axis could be equipped with linear guideway which is suitable for high-precision machining.



Standard with Fanuc OI MF control system. Mitsubishi, Siemens and other control systems are also available.



Configuration

No.	Name	Quantity	Remark
1	Fanuc OI MF	1	
2	Remote	1	
3	Air gun/water gun	1	
4	Automatic lubrication	1	
5	Spindle blowing device	1	
6	Air curtain	1	
7	Standard accessories	1 set	
8	Documents	1 set	
9	Gear box spindle	1	Optional
10	24T drum magazine	1	Optional
11	Right angle milling head	1	Optional

Gantry Machining Center

Parameters Of Gantry Machining Center

		F101	LM1613	LM1614	LM2214	LM2714	LM2216	LM2716	LM3216	LM2218	LM2718	LM3218	LM4018	LM5018	LM6018	
Worktable dimension (L×W)	mm	1100×1000	1700×1100	1800×1400	2200×1100	2700×1100	2200×1200	2700×1200	3200×1200	2200×1500	2725×1500	3250×1500	4000×1500	5000×1500	6000×1500	
Max load of worktable	kg	1000	3500	4000	6000	8000	6000	8000	10000	10000	12000	14000	16000	20000	24000	
T groove (quantity×width×distance)	mm	7×22×125	7×22×135	7×22×160	7×22×150	7×22×150	7×22×150	7×22×150	7×22×150	8×22×180	8×22×180	8×22×180	8×22×180	8×22×180	8×22×180	
X axis travel	mm	1000	1600	1600	2200	2700	2200	2700	3200	2200	2700	3200	4200	5200	6200	
Y axis travel	mm	1000	1300	1400	1400	1400	1650	1650	1650	1800	1800	1800	1800	1800	1800	
Z axis travel	mm	500	730	750	900	900	900	900	900	900	900	900	900	900	900	
Spindle end to worktable	mm	175-675	200-930	200-950	150-1050	150-1050	150-1050	150-1050	150-1050	150-1050	150-1050	150-1050	150-1050	150-1050	150-1050	
Gantry width	mm	1210	1350	1500	1400	1400	1600	1600	1600	1800	1800	1800	1800	1800	1800	
Spindle type		BT40/HSKA63	BT50	BT40/HSKA63	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	
Drive of spindle A	r.p.m	belt 6000/8000	belt 6000/8000	direct drive 12000/15000	belt: Max speed 6000rpm(gear 1.5:1 optional)			belt: Max speed 6000rpm(gear 1.5:1 optional)								
Drive of spindle B		electric spindle 24000/30000	ZF Gear box+belt: Max speed 6000rpm (two gears reduction 1:1; 4:1)	electric spindle 24000/30000	ZF Gear box+belt: Max speed 6000rpm (two gears reduction 1:1; 4:1)			ZF gearbox + belt: Max speed 6000rpm (two gears reduction 1:1; 4:1)								
Drive of spindle C		direct drive 12000	not available	not available	gearbox drive: Max speed 6000rpm (two gears reduction 1:1; 4.4:1)			gearbox drive: Max speed 6000rpm(two gears reduction 1:1; 4.4:1)								
Power of spindle motor	kw	optional	15/18.5	optional	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	
CNC control system		FANUC-0i MF MITSUBISHI M80 SENMENS (optional)					FANUC-0i MF MITSUBISHI M80 SENMENS (optional)									
Rapid speed of X/Y/Z	mm	24/24/24	12/12/12	12/12/12	12/12/10	12/12/10	12/12/10	12/12/10	12/12/10	12/12/10	12/12/10	12/12/10	12/12/10	10/12/10	8/12/10	6/12/10
Capacity of magazine	pieces	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Positioning accuracy	mm	0.012	0.016	0.016	0.016	0.016	0.016	0.016	0.02	0.016	0.016	0.02	0.025	0.03	0.035	
Repositioning accuracy	mm	0.008	0.012	0.012	0.012	0.012	0.012	0.012	0.016	0.012	0.012	0.016	0.018	0.02	0.025	
Air supply	kg/cm ²	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
Weight of machine	T	9	13	19	18	20	18.5	20.5	22.5	23	26	29	31	37	43	
Dimension(L×W×H)	mm	4600×3600×3200	5100×3000×4200	5100×3000×4200	6100×3900×4500	8400×3900×4500	7400×4100×4500	8400×4100×4500	9400×4100×4500	7400×4500×4500	8400×4500×4500	9400×4500×4500	11400×4500×4500	13400×4500×4500	15400×4500×4500	

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Gantry Machining Center

Parameters Of Gantry Machining Center

		LM3023	LM4023	LM5023	LM6023	LM8023	LM3025	LM4025	LM5025	LM6025	LM8025	LM3027	LM4027	LM5027	LM6027	LM8027	
Worktable dimension (L×W)	mm	3000×2000	4000×2000	5000×2000	6000×2000	8000×2000	3000×2000	4000×2000	5000×2000	6000×2000	8000×2000	3000×2000	4000×2000	5000×2000	6000×2000	8000×2000	
Max load of worktable	t	17	20	23	26	29	17	20	23	26	29	17	20	23	26	29	
T groove (quantity×width×distance)	mm	9×22×200	9×22×200	9×22×200	9×22×200	9×22×200	9×22×200	9×22×200	9×22×200	9×22×200	9×22×200	9×22×200	9×22×200	9×22×200	9×22×200	9×22×200	
X axis travel	mm	3200	4200	5200	6200	8200	3200	4200	5200	6200	8200	3200	4200	5200	6200	8200	
Y axis travel	mm	2300	2300	2300	2300	2300	2500	2500	2500	2500	2500	2700	2700	2700	2700	2700	
Z axis travel	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Spindle end to worktable	mm	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	200-1200	
Gantry width	mm	2300	2300	2300	2300	2300	2500	2500	2500	2500	2500	2700	2700	2700	2700	2700	
Spindle type		BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	
Drive of spindle A	r.p.m	belt: Max speed 6000rpm(gear 1.5:1 optional)					belt: Max speed 6000rpm(gear 1.5:1 optional)										
Drive of spindle B		ZF Gear box+belt: Max speed 6000rpm(two gears reduction 1:1; 4:1)					ZF Gear box+belt: Max speed 6000rpm(two gears reduction 1:1; 4:1)										
Drive of spindle C		gearbox drive: Max speed 6000rpm(two gears reduction 1:1; 4.4:1)					gearbox drive: Max speed 6000rpm(two gears reduction 1:1; 4.4:1)										
Power of spindle motor	kw	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	
CNC control system		FANUC-0i MF MITSUBISHI M80 SENMENS (optional)					FANUC-0i MF MITSUBISHI M80 SENMENS (optional)										
Rapid speed of X/Y/Z	mm	12/12/10	10/12/10	10/12/10	6/12/10	6/12/10	12/12/10	10/12/10	10/12/10	6/12/10	6/12/10	10/12/10	10/12/10	10/12/10	10/12/10	6/12/10	6/12/10
Capacity of magazine	pieces	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
Positioning accuracy	mm	0.02/0.02/0.016	0.025/0.02/0.016	0.03/0.02/0.016	0.035/0.02/0.016	0.04/0.02/0.016	0.02/0.02/0.016	0.025/0.02/0.016	0.03/0.02/0.016	0.035/0.02/0.016	0.04/0.02/0.016	0.02/0.02/0.016	0.025/0.02/0.016	0.03/0.02/0.016	0.035/0.02/0.016	0.04/0.02/0.016	
Repositioning accuracy	mm	0.012/0.012/0.01	0.016/0.012/0.01	0.02/0.012/0.01	0.025/0.012/0.01	0.03/0.012/0.01	0.012/0.012/0.01	0.016/0.012/0.01	0.02/0.012/0.01	0.025/0.012/0.01	0.03/0.012/0.01	0.012/0.012/0.01	0.016/0.012/0.01	0.02/0.012/0.01	0.025/0.012/0.01	0.03/0.012/0.01	
Air supply	kg/cm ²	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
Weight of machine	T	39	43	47	51	55	40	44	48	52	56	41	45	49	53	57	
Dimension(L×W×H)	mm	9500×5200×5000	11500×5200×5000	13500×5200×5000	15500×5200×5000	17500×5200×5000	9500×5400×5000	11500×5400×5000	13500×5400×5000	15500×5400×5000	17500×5400×5000	9500×5600×5000	11500×5600×5000	13500×5600×5000	15500×5600×5000	17500×5600×5000	

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Gantry Machining Center

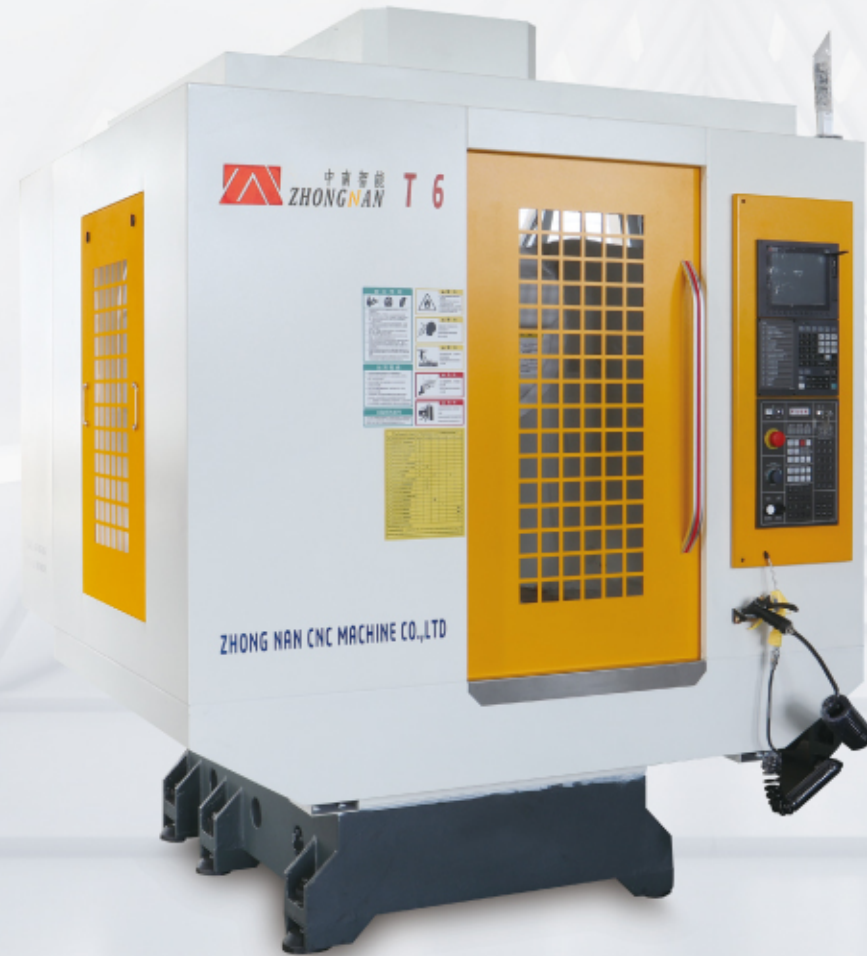
Parameters Of Gantry Machining Center

		LM4028	LM6028	LM8028	LM4030	LM6030	LM8030	LM4032	LM6032	LM8032	LM4035	LM6035	LM8035
Worktable dimension (L×W)	mm	4000×2500	6000×2500	8000×2500	4000×2500	6000×2500	8000×2500	4000×2500	6000×2500	8000×2500	4000×2500	6000×2500	8000×2500
Max load of worktable	t	20	25	30	20	25	30	20	25	30	20	25	30
T groove (quantity×width×distance)	mm	12×28×200	12×28×200	12×28×200	12×28×200	12×28×200	12×28×200	12×28×200	12×28×200	12×28×200	12×28×200	12×28×200	12×28×200
X axis travel	mm	4200	6200	8200	4200	6200	8200	4200	6200	8200	4200	6200	8200
Y axis travel	mm	2800	2800	2800	3000	3000	3000	3200	3200	3200	3500	3500	3500
Z axis travel	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Spindle end to worktable	mm	310-1310	310-1310	310-1310	310-1310	310-1310	310-1310	310-1310	310-1310	310-1310	310-1310	310-1310	310-1310
Gantry width	mm	2800	2800	2800	3000	3000	3000	3200	3200	3200	3500	3500	3500
Spindle type		BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50	BT50
Drive of spindle A	r.p.m	belt: Max speed 6000rpm(gear 1.5:1 optional)					belt: Max speed 6000rpm(gear 1.5:1 optional)						
Drive of spindle B		ZF Gear box+belt: Max speed 6000rpm(two gears reduction 1:1; 4:1)					ZF Gear box+belt: Max speed 6000rpm(two gears reduction 1:1; 4:1)						
Drive of spindle C		gearbox drive: Max speed 6000rpm(two gears reduction 1:1; 4.4:1)					gearbox drive: Max speed 6000rpm(two gears reduction 1:1; 4.4:1)						
Power of spindle motor	kw	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26	22/26
CNC control system		FANUC-0i MF MITSUBISHI M80 SENMENS (optional)					FANUC-0i MF MITSUBISHI M80 SENMENS (optional)						
Rapid speed of X/Y/Z	mm	10/12/10	6/12/10	6/12/10	10/12/10	6/12/10	6/12/10	10/12/10	6/12/10	6/12/10	10/10/10	6/10/10	6/10/10
Capacity of magazine	pieces	24	24	24	24	24	24	24	24	24	24	24	24
Positioning accuracy	mm	0.025/0.025/0.016	0.035/0.025/0.016	0.04/0.025/0.016	0.025/0.025/0.016	0.035/0.025/0.016	0.04/0.025/0.016	0.025/0.025/0.016	0.035/0.025/0.016	0.04/0.025/0.016	0.025/0.025/0.016	0.035/0.025/0.016	0.04/0.025/0.016
Repositioning accuracy	mm	0.016/0.016/0.01	0.025/0.016/0.01	0.03/0.016/0.01	0.016/0.016/0.01	0.025/0.016/0.01	0.03/0.016/0.01	0.016/0.016/0.01	0.025/0.016/0.01	0.03/0.016/0.01	0.016/0.016/0.01	0.025/0.016/0.01	0.03/0.016/0.01
Air supply	kg/cm ²	6	6	6	6	6	6	6	6	6	6	6	6
Weight of machine	T	56	66	76	58	68	78	60	70	80	62	72	82
Dimension(L×W×H)	mm	11500×5700×5200	15500×5700×5200	19500×5700×5200	11500×5900×5200	15500×5900×5200	19500×5900×5200	11500×6100×5200	15500×6100×5200	19500×6100×5200	11500×6300×5200	15500×6300×5200	19500×6300×5200

* Due to continuous improvement of the model and the latest technical data, please contact our marketing department: 86-513-8555 2666.

Tapping Center

Save clamping time
Shorten production cycling
Improve machining accuracy



T series tapping center is a new generation machine tool with high-precision, high-speed, high-efficiency. With once clamping, it can do various machining of parts such as milling, drilling, reaming and tapping automatically and continuously. The machining of various planes, holes and complex contour surfaces suitable for medium batch production, especially small and medium-sized box parts with many holes, more convenient, saves clamping time, shortens the production cycle, and improves the machining accuracy. It is widely used in industries of defense industry, tractors, light industry, automobile manufacturing, textile machinery, molds and etc..

Features

1. The high-speed spindle is used to realize high-speed and high-precision machining.
2. Equipped with imported 21T magazine, tool change is fast and stable.
3. The machine has a large inclined angle design for chip removal, quickly flushes away iron chips, and speeds up the return of cutting fluid
4. Powerful mechatronics application technology improves the response speed of transmission, eliminates no action during processing, reduces cutting time, and significantly improves production efficiency



Tapping Center

Parameters of tapping center

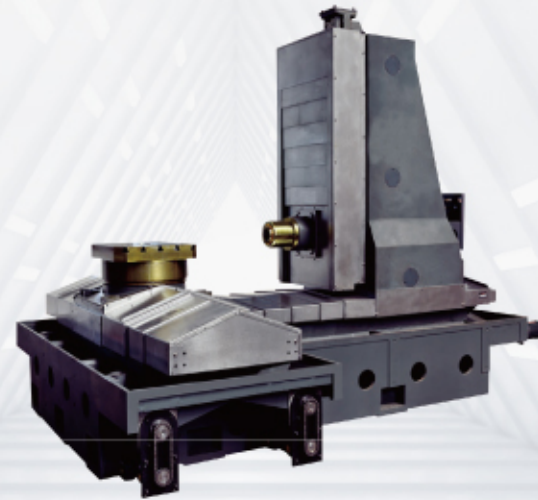
		T5	T6	T7	T8	T10	T13	T16	T18	T20
Worktable dimension(L×W)	mm	650×400	700×400	800×400	1000×500	1100×500	1400×500	1700×600	1900×600	2100×600
Max load of worktable	kg	250	250	300	350	400	450	500	550	600
T groove (quantity×width×distance)	mm	3×14×125	3×14×125	3×14×125	5×18×90	5×18×90	5×18×90	5×18×100	5×18×100	5×18×100
X axis travel	mm	500	600	700	800	1000	1300	1600	1800	2000
Y axis travel	mm	400	400	400	500	500	500	600	600	600
Z axis travel	mm	320	320	320	380	380	380	380	380	380
Spindle end to worktable	mm	130-450	130-450	130-450	175-555	175-555	175-555	200-520	200-520	200-520
Spindle center to column	mm	410	410	410	550	550	550	620	620	620
Spindle type		BT30	BT30	BT30	BT30	BT30	BT30	BT30	BT30	BT30
Speed of spindle	r.p.m	20000	20000	20000	20000	20000	20000	20000	20000	20000
Drive of spindle		Direct drive	Direct drive	Direct drive	Direct drive	Direct drive	Direct drive	Direct drive	Direct drive	Direct drive
Power of spindle	kw	3.7/5.5	3.7/5.5	3.7/5.5	3.7/5.5	3.7/5.5	3.7/5.5	3.7/5.5	3.7/5.5	3.7/5.5
Torque of motor(X/Y/Z)	N·m	8/8/12	8/8/12	8/8/12	11/11/20	11/11/20	11/11/20	20/20/20	20/20/20	20/20/20
CNC system		FANUC-0i MF MITSUBISHI M80 Huazhong CNC 818A (optional)				FANUC-0i MF MITSUBISHI M80 Huazhong CNC 818A (optional)				
Rapid feed of X/Y/Z	mm	48/48/48	48/48/48	48/48/48	48/48/48	48/48/48	48/48/48	30/30/36	30/30/36	30/30/36
Capacity of magazine	把	16T/21T	16T/21T	16T/21T	16T/21T	16T/21T	16T/21T	16T/21T	16T/21T	16T/21T
Positioning accuracy	mm	0.008	0.008	0.008	0.008	0.008	0.012	0.016	0.016	0.016
Repositioning accuracy	mm	0.005	0.005	0.005	0.005	0.005	0.008	0.012	0.012	0.012
Air supply	kg/cm ²	6	6	6	6	6	6	6	6	6
Weight of machine	kg	3200	3500	3800	4500	5000	5500	7000	8000	9000
Dimension(L×W×H)	mm	1900×2340×2450	1900×2340×2450	2040×2340×2450	2500×2300×2500	2900×2300×2500	3500×2300×2500	4700×2300×2500	4900×2300×2500	5100×2300×2500

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High-grade resin sand castings Stable load support

Horizontal Machining Center

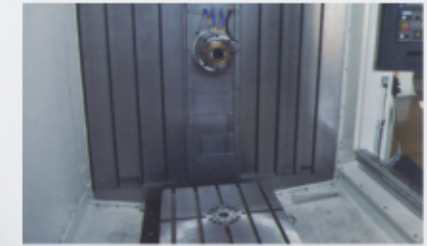
The horizontal machining center is a type of machine tool used in industrial manufacturing that performs machining operations using a horizontal spindle and a rotating workpiece. These machines are typically larger and more robust than vertical machining centers and are capable of handling heavy, bulky workpieces. Horizontal machining centers are used in a wide range of industries, including automotive, aerospace, energy, and manufacturing. They are often used for high volume production runs of complex parts that require precise and accurate cutting.



Structure of HMC500

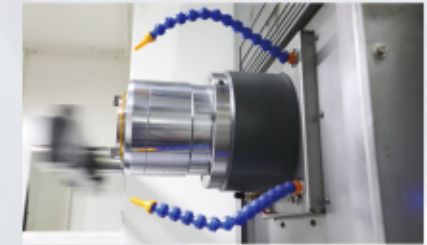
High-precision turntable

- Realize fast exchange of workpieces and improve machining efficiency
- The workpiece is placed externally, which is convenient for clamping
- High rigidity alloy pulley, wear-resistant, high positioning accuracy
- Tight lock, reduced deformation, good for heavy cutting



spindle

- 6 high-rigidity bearings are used
- Taiwan imported BT50 spindle with outer diameter 190mm
- Spindle has an air curtain device to protect the spindle
- Spindle is equipped with ring spray to improve the machining quality, FANUC high-torque motor enable heavy cutting capacity



Tool magazine

- Adopt Taiwan imported magazine
- Fast and reliable



Structure of HMC630A

Features

1. The integrated machine bed adopts T-shaped box structure, casting with high-strength material, and analyzed by finite element analysis to optimize the structure, and fully meet the needs of high-torque cutting.
2. Column with double-wall structure design and large span design, light weight, good rigidity, excellent dynamic performance.
3. The spindle box radial stiffener design, reasonable structure and reinforcing ribs combination ensure the high rigidity of the box body and ensure the machining rigidity and stability of the spindle box.



Horizontal Machining Center

Parameters of Inverted “T” structure horizontal machining center

		HMC500	HMC630	HMC800
Worktable dimension(L×W)	mm	500×500	630×630	800×800
Max load of worktable	kg	600	1200	2000
T groove (quantity×width×distance)	mm	5×18×100	5×20×125	5×22×160
Min dividing angle of rotary table	deg	1°/0.001°	1°/0.001°	1°/0.001°
X axis travel	mm	800	1050	1600
Y axis travel	mm	650	800	1200
Z axis travel	mm	700	850	1200
Spindle end to worktable center	mm	120-820	200-1100	200-1400
Spindle center to worktable	mm	0-650	118-968	80-1280
Spindle type		BT50	BT50	BT50
Speed of spindle	r.p.m	6000	6000	6000
Drive of spindle		belt drive	belt drive	belt drive
Power of spindle	kw	15/18.5	15/18.5 (22/26)	15/18.5 (22/26)
Torque of motor(X/Y/Z)	N·m	30/30/30	36/36/36	36/36/36
CNC system		FANUC-0i MF MITSUBISHI M80 SENMENS (optional)		
Rapid feed of X/Y/Z	mm	48/48/48	30/30/30	24/24/24
Capacity of magazine	把	24T/30T	30T/40T	30T/40T
Positioning accuracy	mm	0.008	0.008	0.008
Repositioning accuracy	mm	0.005	0.005	0.005
Air supply	kg/cm ²	6	6	6
Weight of machine	kg	8000	17000	20500
Dimension(L×W×H)	mm	2900×3500×2850	4500×3500×3500	6000×5000×4500

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Parameters of straight “T” structure horizontal machining center

		HMC630A	HMC800A
Worktable dimension(L×W)	mm	630×630	800×800
Max load of worktable	kg	1200	2000
T groove (quantity×width×distance)	mm	5×20×125	5×22×160
Min dividing angle of rotary table	deg	1°/0.001°	1°/0.001°
X axis travel	mm	1050	1600
Y axis travel	mm	950	1050
Z axis travel	mm	1000	1200
Spindle end to worktable center	mm	135-1135	225-1425
Spindle center to worktable	mm	80-1030	65-1115
Spindle type		BT50	BT50
Speed of spindle	r.p.m	6000	6000
Drive of spindle		belt drive	belt drive
Power of spindle	kw	15/18.5 (22/26)	15/18.5 (22/26)
Torque of motor(X/Y/Z)	NM	36/36/36	36/36/36
CNC system		FANUC-0i MF MITSUBISHI M80 SENMENS (optional)	
Rapid feed of X/Y/Z	mm	30/30/30	24/24/24
Capacity of magazine	把	40T/60T	40T/60T
Positioning accuracy	mm	0.008	0.008
Repositioning accuracy	mm	0.005	0.005
Air supply	kg/cm ²	6	6
Weight of machine	kg	19000	22000
Dimension(L×W×H)	mm	5500×4000×3500	6350×6250×4500

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Fast feed speed

Strong frame rigidity

High machining efficiency

CNC Vertical and Horizontal Milling machine

LW550NC



CNC Power Milling Machine

XKQ1850/2150/2250

Compact structure, small footprint, strong frame rigidity, fast feed speed, high machining efficiency. Rigorous structural design and strict manufacturing standard ensure good performance with affordable price.

Equipped with a vertical and a horizontal gearbox spindle with large torque and strong cutting capacity. With once clamping, the upper surface and side can be machined at the same time, which greatly improves machining efficiency, widely used in mold, automotive and other industries.



CNC Vertical and Horizontal Milling machine

	LW550NC
Worktable dimension	2300×550mm
T groove	18×5×80
Max load of worktable	1600kg
Travel of three axes(X×Y×Z)	1600×900×800mm
Distance from horizontal axis center to worktable surface	45-920mm
Distance from vertical spindle center to worktable surface	-50-750mm
Distance from vertical spindle center to cover of column	640mm
Taper of vertical spindle	NT50
Taper of horizontal spindle	NT50
Speed of spindle segments	38-1250 (18 段) r/min
Guideway of 3 axes flat guideway	硬轨
Feed speed of 3 axis	30-6000mm/min
Power of spindle motor	9kw
Power of XYZ motor	2.0-4.7kw
Cooling pump	0.25kw
Footprint	5100×3500×3000mm
Dimension of package	2600×3500×3000mm
Net weight	7500kg
Gross weight	8000kg

CNC Power Milling Machine

	XKQ1850	XKQ2150	XKQ2250
Worktable dimension	1800×500mm	2100×500mm	2250×500mm
Max load of worktable	1800kg	2800kg	2000kg
Left-right travel (X axis)	1200mm	1600mm	1600mm
Front-back travel(Y axis)	650mm	680mm	650mm
Up-down travel(Z axis)	680mm	700mm	680mm
Spindle center to worktable surface	550mm	650mm	550mm
Spindle nose to worktable surface	100-780mm	0-700mm	100-780mm
Spindle taper	NT50	NT50	NT50
Spindle speed	50-1430r/min	50-1430r/min	50-1430r/min
Segments of spindle speed	12 级	12 级	12 级
Rapid feed speed	6m/min	6m/min	6m/min
Repositioning accuracy	0.01	0.01	0.01
Power of spindle	9kw	9kw	9kw
Servo motor	4.7kw 26N.m	4.7kw 26N.m	4.7kw 26N.m

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中南智能科技
ZHONGNAN INTELLIGENT TECHNOLOGY

数控精密平面磨床

CNC PRECISION SURFACE
GRINDING MACHINE SERIES



M4080AHD



M3060AHD



M2550AHD



M50100AHD



M60160AHD

南通中南智能科技有限公司
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数控精密平面磨床 CNC PRECISION SURFACE GRINDING MACHINE SERIES

主要技术参数 Main technical parameters

项目 Item		单位 Unit	M2550	M3060	M4080	M50100	M50100	M60120	M60160	M80160	M80200	
			十字滑台式 Saddle moving				立柱移动式 Column moving					
能力 Ability	工作台尺寸 (长 × 宽) Table size (length × width)	mm	500 × 250	600 × 300	800 × 400	1000 × 500	1000 × 500	1200 × 600	1600 × 600	1600 × 800	2000 × 800	
	工作台最大移动量 Maximum displacement of table	左右 Left and right	mm	600	720	920	1200	1200	1400	1800	1800	2200
		前后 Front and back	mm	275	360	450	550	550	660	660	860	860
	工作台面至主轴中心最大距离 Maximum distance from table to spindle center	mm	500	650	700	700	700	850	850	820	820	
工作台最大承受重量 (含吸盘) Maximum weight of table (including suction cup)	kg	300	400	650	750	900	950	1100	1800	2300		
工作台及前后进给 Table and front and rear feed	工作台 T 型槽 Table T-slot	mm × N	14 × 1	14 × 1	14 × 3	14 × 3	14 × 3	16 × 3	16 × 3	18 × 3	18 × 3	
	工作台速度 Table speed	m/min	5 ~ 25	5 ~ 25	5 ~ 25	5 ~ 25	5 ~ 25	7 ~ 25	7 ~ 25	7 ~ 25	7 ~ 25	
	前后电子手轮进刀 Front and rear electronic hand wheel feed	mm	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
	前后自动进给 Automatic feed front and rear	mm	0.1-8	0.1-8	0.1-8	0.1-8	0.1-10	0.1-10	0.1-10	0.1-10	0.1-10	
	前后快速移动量 Rapid movement back and forth	mm/min	900	900	900	900	1200	1200	1200	1200	1200	
上下进给 Up and down feed	上下电子手轮进刀 Top and bottom electronic hand wheel feed	mm	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
	上下自动进给量 Automatic feed up and down	mm	0.001-0.02	0.001-0.02	0.001-0.02	0.001-0.02	0.001-0.02	0.001-0.02	0.001-0.02	0.001-0.02	0.001-0.02	
	上下快速移动量 Move up and down quickly	mm/min	300	300	300	300	750	750	750	750	750	
砂轮主轴 Grinding wheel spindle	砂轮尺寸 (外径 × 厚度 × 内径) Grinding wheel size (outer diameter × thickness × inner diameter)	mm	Φ205 × 6 ~ 20 × Φ32		Φ350 × 20 ~ 40 × Φ127			Φ400 × 20 ~ 50 × Φ127				
	主轴转速 Spindle speed	50HZ	rpm	2835	1450	1450	1450	1450	1450	1450	1450	
		60HZ	rpm	3360	1740	1740	1740	1740	1740	1740	1740	
电机 Electric machine	主轴电机 Spindle motor	HP	3HP	5HP	7.5HP	7.5HP	7.5HP	10HP	10HP	10HP	10HP	
	前后电机 Front and rear motor	w	200	400	400	400	1500	2200	2200	2200	2200	
	上下电机 Upper and lower motor	w	400	750	750	750	1500	2200	2200	2200	2200	
	油压电机 Hydraulic motor	HP	1	3	3	3	3	7.5	7.5	7.5	7.5	
	冲水电机 Flushing motor	HP	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	
尺寸重量 Dimensional weight	机器高度 Machine height	mm	1700	1950	2000	2100	2400	2600	2600	2600	2600	
	占地面积 (长 × 宽) Floor area (length × width)	mm	1800 × 1400	2050 × 1800	2750 × 2500	2950 × 2600	3200 × 2300	3700 × 2600	4500 × 2600	4500 × 3300	5500 × 3300	
	机器重量 Machine weight	kg	1400	2800	3700	4000	6500	7300	8000	9300	10800	

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M4080

PRECISION CNC SURFACE
GRINDING MACHINE



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Main technical parameters

Item	unit	M4080AHD
working area	Worktable dimension(L×W)	mm 800×400
	Left-right travel	mm 920
	Front-back travel	mm 450
	Max load of worktable	kg 700
	Max distance between grinding wheel center and worktable	mm 600
Worktable and front-back feed	T groove of worktable	mm 3×14×100
	Feed speed of worktable	mm/min 5-25
	Front-back automatic feed rate	mm 0.1-8
	Front-back rapid feed speed	mm/min 900
Up-down feed	Up-down handle wheel feed rate	mm 0.001
	Up-down automatic feed rate	mm 0.001-0.02
	Up-down rapid feed speed	mm/min 300
Grinding wheel spindle	Power	HP/KW 7.5/5.5
	Wheel dimension: OD×ID×Thickness	mm 355×127×20-40
Motor	Rotation speed	rpm 1450
	Front-back motor	w 400
	Up-down motor	w 750
	Hydraulic motor	hp 3
	Flushing motor	hp 1/4
Dimensions	Length	mm 2750
	Width	mm 2500
	Height	mm 2000
	Weight	kg 3700
	Rated power	kw 10

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