



PRODUCT LEADERSHIP BRAND DRIVEN GLOBAL OPERATION

SHANDONG WEIDA PRECISION INTELLIGENT MACHINERY CO., LTD.

Add:No.1999 Beixin West Road Tengzhou

Shandong China

Postcode:277500

http://www.weidamc.com www.weida-mc.com

E-mail:sales@weidamc.com

Sales Corp:

Tel:0632-5990299

Fax:0632-5695479

After-sales services:0632-5695478

EXP.Corp:

Tel:86-632-5695499 5696389

Fax:86-632-5695499

Accessories Corp:

Tel:0632-5990255 5990266

Fax:0632-5169788













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ANDONG WEIDA PRECISION INTELLIGENT MACHINERY CO., LTD.



FIVE-AXIS MACHINING CENTER 2025



SHANDONG WEIDA PRECISION

使命 THE MISSION

CREATE VALUE FOR CUSTOMERS AND DEVELOP WITH THEM

愿景 THE VISION

WE ARE COMMITTED TO BECOME AN INTERNATIONAL RESPECTED MACHINE TOOL MANUFACTURER





Company Profile

Situated in the scenic hometown of Mo-tse - Tengzhou city, Shandong Province, Shandong Weida Precision Intelligent Machinery Co., Ltd. is a large-scale joint-stock enterprise with the right of Import&Export. It covers an area of 500,000 m², the building zone is about 350,000 m², and the total assets is more than RMB1 billion, there are 365 engineers, the main processing equipments are imported from Germany Waldrich Corburg guide grinder, Heckert, Heller and DMG horizontal machining center, Japan Okuma, New Japan SNK gantry type five-face boring and milling center, 132 sets of testing and debugging equipment. The company has set up a scientific research achievement transformation base in cooperation with Shandong University, cooperated with Huazhong University of Science and Technology in industry-university research, which composed of Technology research and Development Center, Information Data Processing Center, Product Inspection & Testing Center and Metrology room. In 2022, setting up a horizontal CNC machine tool engineering research center in Shandong Province.



Business Fields

In recent years, through the combination of absorbing advanced technology from abroad, cooperating with scientific research institutes and self-development and design, the main products have developed to 10 series: Automatic production line, Bridge type five-axis gantry machining center series, Gantry type/Vertical/Horizontal machining center series, CNC milling machine series, Horizontal boring and milling machine series, Radial drilling machine series, CNC lathe machine series, Milling/Drilling machine series, altogether more than 90 specifications. With stable capability & reliable quality, the products are widely sold both in home and abroad market, covering more than 70 countries and regions, especially Europe & America market.



Professional Certifications

WEIDA company pursues the quality strategy of creating famous brand and excellent reputation. It has obtained ISO9001:2015 Standard Quality System Certification, ISO14001:2015 Environmental Management System Certification, ISO45001:2018 Occupational Health And Safety Management System Certification from CQC accreditation body; EU "CE" certification; National High-tech Enterprise; Shandong Province "Specialized and Special New" Enterprise; In 2022, we passed the certification of two integration management system.

From 2011 to 2021, we were multiply honored as one of the "Top 10 Export Enterprises in China Machine Tool Industry"; In 2014, the company undertook the Science and Technology Major Special Project of "National High-grade CNC Machine Tools and Basic Manufacturing Equipment"; The XH2130 CNC Gantry Boring and Milling Center and DMC1300 Gantry Machining Center independently designed and developed by WEIDA won the "National Chunyan Award"; it was awarded as one of the Top 30 Enterprises in China Machine Tool Industry for three consecutive years in 2015, 2016 and 2017.



THE RELENTLESS PURSUIT OF QUALITY AND PRECISION IS THE CHARACTERISTICS OF WEIDA AND ITS STAFF









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龙门式五轴加工中心系列 Gantry type five axis machining center series

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卧式五轴加工中心系列 Horizontal type five axis machining center series

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立式五轴加工中心系列 Veritcal type five axis machining center series

- Suitable for automotive mold, aerospace, printing, packaging, textile, military and other machining fields.
- The latest model structure, modular structure design, has the best machine rigidity.
- The bridge gantry structure has a footprint that is approximately 56% of that of a traditional table-moving structure.
- Fixed table, load capacity doubled, and machine tool machining characteristics are not affected by the quality of the workpiece.
- The patented one-piece bed table and column form a U-shaped frame structure with strong structural rigidity and high stability.
- The column adopts "honeycomb" bionic structural design with high structural rigidity.
- Adoption of patented technology cable fine-tuning mechanism of large span high rigidity gantry welded crossbeam, effectively solving the problem of large span crossbeam with low long-term accuracy retention and unadjustable.
- The crossbeam, slide plate and ram adopt the patented double-nested thermo-symmetric "box-in-box" structure, which is characterized by strong structural rigidity and excellent thermal balance performance.
- X, Y and Z axes all adopt "hollow screw" and patented "nut circulation oil cooling" technology, which can effectively control the influence of temperature rise on the precision of the machine tool.
- X-axis and Z-axis adopt double ball screw synchronized dual drive technology.
- X, Y and Z axes all adopt heavy-duty linear roller guideways with strong load bearing capacity.
- X, Y and Z axes adopt grease lubrication system, which is both environmentally friendly and reliable.
- The balancing cylinders are symmetrically arranged on both sides of the ram, and the Z-axis response speed is fast.

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STANDARD

OPTION

- Kessler double-arm fork type 5-axis milling head is equipped as standard: direct drive by torque motor, permanent precision. Encoder - HSK-A100-15000rpm high rigidity electric spindle. direct measurement, absolute accuracy, A/C axis speed: 100rpm, -- Equipped with German BLUM laser tool setting instrument to realize A/C axis brake torque: 2160/3024N, A/C axis cooling: constant temperature water cooling.
- All axes are equipped with linear scales to improve precision and 24pcs, 32pcs and 40pcs ATC
- Standard CNC controllor Siemens SINUMERIK ONE
- Horizontal chain chip conveyor as standard

 - CNC controllor Heidenhain 	TNC640/TNC7

- fast and reliable tool setting.
- Renishaw automatic workpiece measurement system.

Main specifications	Unit	GMC2232bu	GMC2242bu	GMC2742bu	GMC3262bu
X-axis travel	mm	2200	4200	4200	6200
Y-axis travel	mm	3200	2200	2700	3200
Z-axis travel	mm	1250	1250	1250	1250
Distance from spindle nose to table surface	mm	250-1500	250-1500	250-1500	250-1500
Distance between two columns	mm	4000	3000	3500	4000
Worktable size	mm	3200X2200	4000X2200	4000X2500	6000X3000
Max. load of worktable	kg/m²	5000	5000	5000	5000
T-slot (Width-NoDistance)	mm	28-13-240	28-9-220	28-11-240	28-13-220
Spindle taper		HSK-A63	HSK-A63	HSK-A63	HSK-A63
Max. spindle speed	rpm	18000	18000	18000	18000
Main motor power	kW	56/70	56/70	56/70	56/70
Spindle torque	N.m	89/111	89/111	89/111	89/111
Max. swing/rotation speed	rpm	A=100 C=100	A=100 C=100	A=100 C=100	A=100 C=100
Max. swing/rotation torque	N.m	A=1200 C=1100	A=1200 C=1100	A=1200 C=1100	A=1200 C=1100
Holding force	N.m	A=2160 C=3024	A=2160 C=3024	A=2160 C=3024	A=2160 C=3024
Swing/rotation angle	0	$A=\pm 105 C=\pm 240$	$A=\pm 105 C=\pm 240$	$A=\pm 105 C=\pm 240$	A=±105 C=±240
Rapid feed speed(X/Y/Z)	mm/min	15000/15000/15000	15000/15000/15000	15000/15000/15000	15000/15000/15000
Cutting feed speed(X/Y/Z)	mm/min	1-12000/1-12000/1-12000	1-6000/1-6000/1-12000	1-12000/1-6000/1-6000	1-12000/1-6000/1-6000
Positioning accuracy(X/Y/Z)	mm	0.014/0.016/0.012	0.020/0.014/0.012	0.020/0.016/0.012	0.030/0.016/0.012
Repeat positioning accuracy(X/Y/Z)	mm	0.010/0.012/0.008	0.016/0.010/0.008	0.016/0.012/0.008	0.024/0.012/0.008
Total power capacity	kVA	150	150	150	150
Machine weight	kg	62000	68000	71000	96000
Overall dimensions	mm	8600X6100X6600	8200X7600X6600	8200X8100X6600	10200X8600X6600

BRIDGE TYPE HIGH SPEED FIVE AXIS GANTRY MACHINING CENTER



GMC2232bu

性能特点 PERFORMANCE

- Square ram with four linear guide ways and slider with encryption structure; High stability; With the characteristic of strong structural rigidity and excellent thermal balance performance.
- X-axis adopts precision rack and pinion transmission structure, the drive adopts double motors and double planetary reducer electrical backlash mode, double motors to realize master-slave control, which can effectively improve the positioning accuracy.
- Y, Z axis adopts "hollow screw" or patented "nut circulation oil cooling" technology, which can effectively control the influence of temperature rise on the accuracy of the machine tool.
- X, Y, Z axes all adopt heavy-duty linear roller guideway, with strong loading capacity.

标准配置

STANDARD

选择配置

OPTION

- Kessler double-arm fork type 5-axis milling head is equipped as CNC controllor Heidenhain TNC640/TNC7 standard: direct drive by torque motor, permanent precision. Encoder direct measurement, absolute accuracy, A/C axis speed: 100rpm, - Equipped with German BLUM laser tool setting instrument to realize A/C axis brake torque: 2160/3024N, A/C axis cooling: constant temperature water cooling.
- All axes are fully closed-loop controlled by scale to improve accuracy and reliability.
- Standard CNC controllor Siemens SINUMERIK ONE
- Equipped with double chain plate chip conveyor as standard.

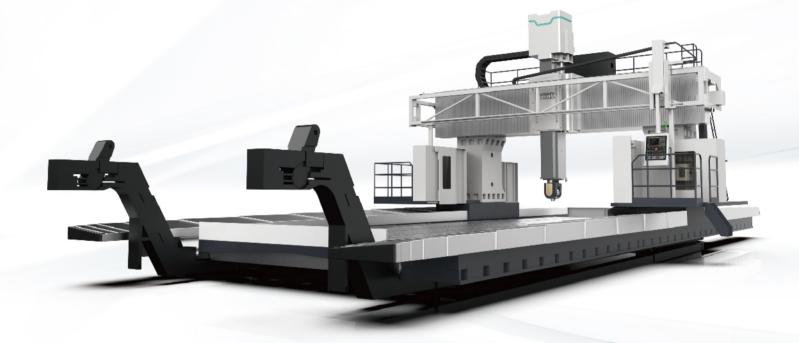
- HSK-A100-15000rpm high rigidity electric spindle.
- fast and reliable tool setting.
- Renishaw automatic workpiece measurement system.

Main specifications	Unit	GMU30100fm	GMU40100fm	GMU40140fm	GMU50200fm
X-axis travel	mm	10600	10600	14600	20600
Y-axis travel	mm	4500	5500	5500	6500
Z-axis travel	mm	1500	1500	1500	1500
Distance from spindle nose to table surface	mm	250-1750	250-1750	250-1750	250-1750
Distance between two columns	mm	4100	5100	5100	6100
Worktable size	mm	10000X3000	10000X4000	14000X4000	20000X5000
Max. load of worktable	T/m ²	15	15	15	15
T-slot width	mm	28	36	36	36
Spindle taper		HSK-A63	HSK-A63	HSK-A63	HSK-A63
Max. spindle speed	rpm	18000	18000	18000	18000
Main motor power	kW	56/70	56/70	56/70	56/70
Spindle torque	N.m	89/111	89/111	89/111	89/111
Max. swing/rotation speed	rpm	A=100 C=100	A=100 C=100	A=100 C=100	A=100 C=100
Max. swing/rotation torque	N.m	A=1200 C=1100	A=1200 C=1100	A=1200 C=1100	A=1200 C=1100
Holding force	N.m	A=2160 C=3024	A=2160 C=3024	A=2160 C=3024	A=2160 C=3024
Swing/rotation angle	0	A=±105 C=±240	A=±105 C=±240	A=±105 C=±240	A=±105 C=±240
Rapid feed speed(X/Y/Z)	mm/min	10000/10000/10000	10000/10000/10000	10000/10000/10000	10000/10000/10000
Cutting feed speed(X/Y/Z)	mm/min	1-8000/1-8000/1-8000	1-8000/1-8000/1-8000	1-8000/1-8000/1-8000	1-8000/1-8000/1-8000
Positioning accuracy(X/Y/Z)	mm	0.055/0.022/0.015	0.055/0.028/0.015	(0.011/1000)/0.028/0.015	(0.011/1000)/0.032/0.01
Repeat positioning accuracy(X/Y/Z)	mm	0.038/0.018/0.012	0.038/0.024/0.012	(0.008/1000)/0.024/0.012	(0.008/1000)/0.028/0.01
Total power capacity	kVA	120	120	120	120
Machine weight	kg	100000	120000	140000	210000
Overall dimensions	mm	19000 × 8200 × 8000	19000 × 9200 × 8000	23000×9200×8000	29000 × 10500 × 8000

FIXED BEAM MOVING COLUMN GANTRY MACHINING CENTE







GMU 30100fm

GMU40140fm

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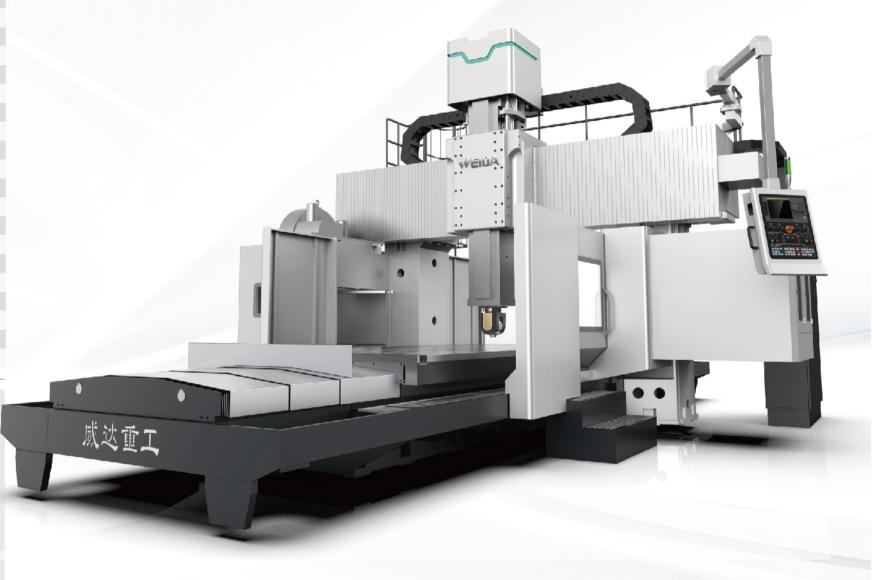
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MOVING TABLE FIVE AXIS GANTRY MACHINING CENTER



GMU 2040 / **GMU** 2560

GMU 3060

GMU2040

MOVING TABLE FIVE AXIS GANTRY MACHINING CENTER

Main specifications	Unit	GMU2040	GMU2560	GMU3060
X-axis travel	mm	4200	6500	6200
Y-axis travel	mm	3200	3500	4200
Z-axis travel	mm	1000(1250)	1000(1250)	1250
Distance from spindle nose to table surface	mm	250-1250(250-1500)	250-1250(250-1500)	250-1500
Distance between two columns	mm	3000	3300	3800
Worktable size	mm	4000X2000	6000X2500	6000X3000
Max. load of worktable	kg	15000	26000	30000
T-slot (Width-NoDistance)	mm	28-9-200	28-11-220	28-13-220
Spindle taper		HSK-A63	HSK-A63	HSK-A63
Max. spindle speed	rpm	18000	18000	18000
Main motor power	kW	56/70	56/70	56/70
Spindle torque	N.m	89/111	89/111	89/111
Max. swing/rotation speed	rpm	A=100 C=100	A=100 C=100	A=100 C=100
Max. swing/rotation torque	N.m	A=1200 C=1100	A=1200 C=1100	A=1200 C=1100
Holding force	N.m	A=2160 C=3024	A=2160 C=3024	A=2160 C=3024
Swing/rotation angle	0	A=±105 C=±240	A=±105 C=±240	A=±105 C=±240
Rapid feed speed(X/Y/Z)	mm/min	12000/12000/10000	10000/10000/10000	10000/10000/10000
Cutting feed speed(X/Y/Z)	mm/min	1-8000/1-10000/1-8000	1-8000/1-8000/1-8000	1-6000/1-6000/1-6000
Positioning accuracy(X/Y/Z)	mm	0.020/0.015/0.010(0.012)	0.030/0.020/0.010(0.012)	0.030/0.028/0.012
Repeat positioning accuracy(X/Y/Z)	mm	0.013/0.010/0.008(0.010)	0.022/0.013/0.008(0.010)	0.022/0.019/0.010
Total power capacity	kVA	110	110	110
Machine weight	kg	46000	65000	88000
Overall dimensions	mm	10390 × 5900 × 6800	16000 × 6300 × 6800	18600×6900×7150

性能特点 PERFORMANCE

- The X, Y and Z axes all use heavy-duty linear roller guideways.
- The beam adopts vertical orthogonal linear guide structure to meet the demand of large span and high rigidity.
- The square ram four-line rail encircles the roller guide and slider encrypted structure, with high stability. It is characterized by strong structural rigidity
 and excellent thermal balance performance.
- X, Y, Z-axis adopts "hollow screw" or patented "nut circulation oil cooling" technology, which can effectively control the impact of temperature rise on the accuracy of the machine
- X, Y, Z-axis adopts independent lubricant recycling system balancing cylinders are arranged symmetrically on both sides of ram, and Z-axis has fast
- Suitable for automotive mold, aerospace, printing, packaging, textile, military and other machining fields.

选择配置

- Kessler double-arm fork type 5-axis milling head is equipped as standard: direct drive by torque motor, permanent precision.
- Encoder direct measurement, absolute precision, A/C axis speed:
 100rpm, A/C axis brake torque: 2160/3024N.Constant temperature water cooling on A/C axis.
- All axes are fully closed-loop controlled by scale to improve accuracy and reliability.
- Standard equipped with Siemens ONE CNC controller.
- Equipped with horizontal chip type conveyor as standard.

- Heidenhain TNC640/TNC7 CNC controller.
- HSK-A100-15000rpm high rigidity electric spindle.
- Equipped with German BLUM laser tool setting instrument to realize fast and reliable tool setting.
- Renishaw automatic workpiece measurement system.

性能特点 PERFORMANCE

- The machine adopts positive T type three-point support bed, frame-in-frame overall structure design, with better rigidity and excellent thermal balance performance.
- X, Y and Z axes all adopt high-strength roller linear guideway to ensure high rigidity and positioning accuracy.
- Equipped with 45° automatic indexing direct-drive milling head, and the milling head is equipped with a self-locking mechanism, which has a large locking torque, stable and reliable locking, and the rotating speed of the pendulum head can reach 60r/min.
- The spindle of milling head adopts direct-drive electric spindle with high speed, low vibration and excellent machining performance.
- The milling head spindle nose is designed with spindle air curtain to prevent debris from entering and ensure spindle accuracy and life.
- The rotary table adopts direct drive technology of torque motor, which can rotate 360° and the speed can reach 40r/min.
- X, Y, Z three-axis adopts motor direct screw structure, X, Z axis for the double ball screw synchronous drive, reasonable layout, faster response.
- X, Y, Z axis is equipped with linear scale, B, C axis is equipped with circular time scale, five-axis full closed-loop control improves the machining accuracy and stability
- X, Y, Z three-axis adopts "hollow screw" technology, bearing ring cooling technology, the whole machine five-axis constant temperature water cooling, effective control of temperature rise on the precision of the machine.
- The speed of X, Y and Z axes can reach 60m/min, which improves the machining efficiency.
- The tool cooling and lubrication adopts the spindle ring spray cooling system with high flow rate.
- The machine is equipped with SINUMERIK ONE controller.
- Equipped with 45pcs large-capacity tool magazine system, meets the demands of multi-process and multi-featured machining, reduces the machining auxiliary time and improves the machining efficiency.
- The machine adopts independent PLC-controlled centralized lubrication device to automatically lubricate the screws and guide rails of each motion axis.
- The machine is equipped with double screw chip conveyor and double chain chip conveyor as standard and at the same time configured with large flow top chip flushing, which can realize fully automatic chip discharge of the machine.
- It is applicable to various machining fields such as automobile industry, mold industry, aerospace industry, machinery manufacturing industry, energy technology industry and so on.

	Model	Unit	HMU1600	HMU1250	HMU1000
	X-axis travel (column left-right movement)	mm	1600	1250	1000
	Y-axis travel (forward and backward movement of rotary table)	mm	1500	1250	1100
	Z-axis travel (headstock up and down)	mm	1300	1100	1000
	B-axis rotary range	٥	-30° ~ +180°	-30° ~ +180°	-30° ~ +180°
Machining	C-axis rotary range	٥	360°	360°	360°
range	Max. workpiece rotary diameter	mm	Ø 1600	Ø 1250	Ø 1000
	Distance from spindle nose to table nose (spindle vertical)	mm	150 ~ 1450	150 ~ 1250	150 ~ 1150
	Distance from spindle axis to table rotation center (spindle vertical)	mm	-200 ~ 1300	-200 ~ 1050	-200 ~ 800
	Distance from spindle axis to table surface (spindle horizontal)	mm	50 ~ 1350	50 ~ 1150	50 ~ 1050
	Distance from spindle nose to table rotation center (spindle horizontal)	mm	-100 ~ 1400	-100 ~ 1150	-100 ~ 900
	Table size	mm	Ø 1250×1100	Ø 1000×850	Ø 800×650
Work	Min. indexing unit	0	0.001	0.001	0.001
Table	Max. table load	Kg	2000	1500	1000
	Rotary table speed	r/min	40	40	40
	Max. spindle speed	rpm	10000	10000	10000
Spindle	Spindle taper		HSK A100	HSK A100	HSK A100
	Spindle motor power	Kw	54	54	54
	Spindle torque	N.m	200/240	200/240	200/240
	Rotational speed of the pendulum head	rpm	60	60	60
Pendulum head	Rated torque	N.m	1200	1200	1200
Heau	Clamping system		Hydraulic	Hydraulic	Hydraulic
Feed	X/Y/Z rapid feed speed	m/min	60	60	60
System	X/Y/Z max. cutting feed speed	m/min	20	20	20
	Max. tool magazine capacity		45	45	45
Tool	Max. tool diameter(full/empty)	mm	125/250	125/250	125/250
Magazine	Max. tool length	mm	400	400	400
	Max. tool weight	kg	25	25	25
	Linear axis positioning accuracy X/Y/Z	mm	0.008/0.008/0.008	0.008/0.008/0.008	0.008/0.008/0.008
A	Linear axis repeatable positioning accuracy X/Y/Z	mm	0.005/0.005/0.005	0.005/0.005/0.005	0.005/0.005/0.005
Accuracy	Rotary axis positioning accuracy	arc/sec	8	8	8
	Repeatable positioning accuracy of rotary axis	arc/sec	4	4	4
	Model		SINUMERIK One	SINUMERIK One	SINUMERIK One
CNC control system	Total control axes	Axes	5	5	5
On to Or System	Number of linkage control axes	Axes	5	5	5

5-AXIS HORIZONTAL MACHINING CENTER

SHANDONG WEIDA PRECISION INTELLIGENT MACHINERY CO., LTD.

HMU1250



标准配置

STANDARD

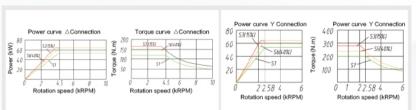
- Equipped with 45°automatic indexing direct-drive milling head as standard.
- X, Y, Z axis is equipped with linear scale, B, C axis is equipped with
- X, Y, Z axis hollow screw constant temperature water cooling
- 45T arm type tool magazine
- Direct-drive rotary table
- Equipped with Siemens SINUMERIK ONE CNC controller as standard.
- Equipped with double screw chip conveyor+double chain chip conveyor+top flushing chip as standard.

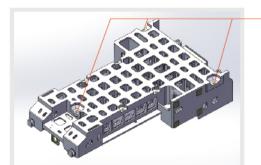
选择配置

- 40pcs or 60pcs chain type tool magazine
- Automatic tool measuring system
- Automatic workpiece measurement system
- B, C-axis circular scale
- 2Mpa, 3Mpa, 5Mpa CTS
- Turning function, a clamping can be completed turning, milling, boring and other forms of processing

Self-made 45° direct drive pendulum head and high speed spindle.

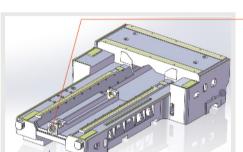
High torque, high positioning accuracy, high spindle speed and low vibration.





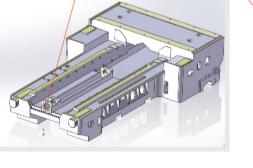
Three-point support bed

The bed adopts high rigidity and low stress structural large casting technology to guarantee good accuracy retention;



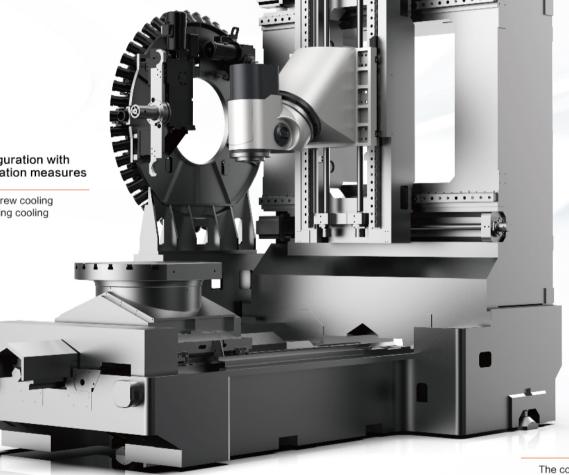
Screw base and machine bed

is one-piece casting



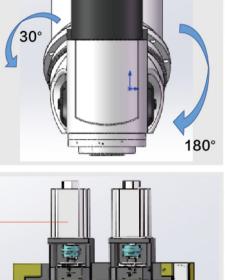
Three-axis configuration with thermal compensation measures

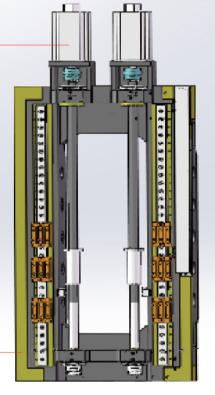
Adoption of hollow screw cooling Adoption of bearing ring cooling

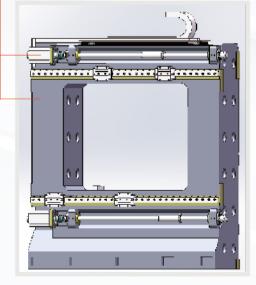


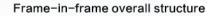
Dual-drive synchronization technology for X and Z axes

Dual-drive synchronization technology for both X and Z axes improves machine response, accuracy retention and travel speed.

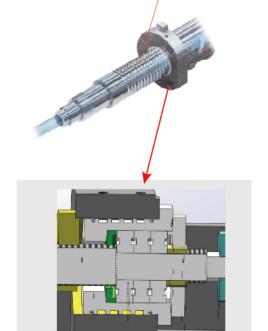








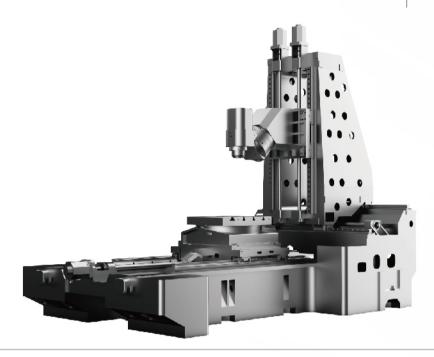
The column and slide plate form a frame-in-frame structure, and the slide plate is supported in the full range of travel, compared with the transmission of a single-column type HMC, the spindle box is more rigid in the highest position of the Z-travel, reducing vibration due to the lack of rigidity of the column.



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	Model	Unit	HMC1250u	HMC1000u	HMC800u
	X-axis travel (column left/right movement)	mm	1250	1000	800
(fi	Y-axis travel (forward and backward movement of rotary table)	mm	1250	1100	1000
	Z-axis travel (spindle box moving up and down)	mm	1100	1000	900
	B-axis rotation range	0	-30° ~ +180°	-30° ~ +180°	-30° ~ +180°
Machining	C-axis rotation range	0	360°	360°	360°
range	Max. workpiece rotation diameter	mm	Ø 1200	Ø 1100	Ø 1100
	Distance from spindle end face to table surface (spindle vertical)	mm	150 ~ 1250	150 ~ 1150	150 ~ 1050
	Distance from spindle axis center to table rotation center (spindle vertical)	mm	-200 ~ 1050	-200 ~ 900	-200 ~ 800
	Distance from spindle axis to table surface (spindle horizontal)	mm	50 ~ 1150	50 ~ 1050	50 ~ 950
	Distance from spindle end face to table rotation center (spindle horizontal)	mm	-100 ~ 1150	-100 ~ 1000	-100 ~ 900
	Table size	mm	1000 × 1000	800×800	630×630
Toblo	Min. indexing unit	0	0.001	0.001	0.001
Table	Max. table load	Kg	3000	2000	1200
	Table speed	r/min	11.1	11.1	11.1
	Max. spindle speed	rpm	18000	18000	18000
Spindle	Spindle taper		HSK-A63	HSK-A63	HSK-A63
	Spindle power	Kw	30	30	30
	Spindle output torque	N.m	72/85	72/85	72/85
	Rotational speed of the pendulum head	rpm	60	60	60
Pendulum	Rated torque	N.m	1200	1200	1200
head	Clamping system		Hydraulic	Hydraulic	Hydraulic
Feed	X/Y/Z rapid feed speed	m/min	48	48	48
System	X/Y/Z max. cutting feed speed	m/min	20	20	20
	Capacity		45	45	45
Tool	Max. tool dia (Full / Empty)	mm	75/130	75/130	75/130
Magazine	Max. tool length	mm	350	350	350
	Max. tool weight	kg	8	8	8
	Linear axis positioning accuracy X/Y/Z	mm	0.008/0.008/0.008	0.008/0.008/0.008	0.008/0.008/0.008
Accuracy	Linear axis repeatable positioning accuracy X/Y/Z	mm	0.005/0.005/0.005	0.005/0.005/0.005	0.005/0.005/0.005
/ locuracy	Rotary axis positioning accuracy	arc/sec	8	8	8
	Repeatable positioning accuracy of rotary axis	arc/sec	4	4	4
ONO	Model		SINUMERIK One	SINUMERIK One	SINUMERIK One
CNC ontrol system	Total control axes	Axes	5	5	5
,	Number of linkage control axes	Axes	5	5	5

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5-AXIS HORIZONTAL MACHINING CENTER

HMC1000u



PERFORMANCE

标准配置

STANDARD

- T bed with three-point support structure, better machine rigidity
- The back guideway of the bed is low at the front and high at the back, which reduces the weight of the column and improves the motion performance of the machine.
- X, Y and Z axes all adopt high-strength roller linear guideways to ensure high rigidity and geometric accuracy of the machine. Adoption of 45° pendulum head, small machining interference area, strong machining
- adaptability - Pendulum head adopts high torque motor, direct drive, with circular scale, good motion
- performance, high rotary positioning accuracy. - Pendulum head spindle adopts electric spindle with high speed, low vibration and
- excellent machining performance. - The spindle nose of the milling head is equipped with spindle front seal to prevent dust
- and debris from entering, ensuring spindle accuracy and life. - The lifting and lowering of spindle box adopts double-screw synchronous drive, with reasonable arrangement and faster response.
- Five-axis full closed-loop control improves machine accuracy and stability
 Adopting water cooling technology of hollow screw and cooling technology of bearing ring sleeve, effectively controlling the influence of temperature rise on the precision of machine tool.
- With high flow spindle ring spray cooling system
- Equipped with a large-capacity tool magazine system to meet the needs of multi-process, multi-featured machining, reduce machining assistance time and improve machin-
- The machine adopts an independent PLC-controlled centralized lubrication device to automatically lubricate the screws and guideways of each axis of motion.
- The machine is equipped with double screw chip conveyor + double chain chip conveyor as standard, and at the same time equipped with high-flow chip flushing, which can realize fully automatic chip removal on the machine.
- Suitable for a wide range of machining applications such as automotive, mold and die industry, aerospace, machine building, energy technology, etc.

- 45° automatic indexing direct-drive pendulum head - Full closed loop control
- Hollow ball screw
- 40pcs chain type tool magazine

60pcs chain type tool magazine Automatic Tool Measuring System

Automatic Workpiece Measuring System

Coolant through spindle system (CTS)

- Siemens SINUMERIK ONE CNC Controller
- Double screw chip conveyor + double chain chip conveyor + top chip flushing

Turning function, one time clamping can be completed

turning, milling, boring and other forms of processing

选择配置

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Table size		Model		Unit	HMC1000Y
Max. table load		Table size		mm	Φ1000
T-Slot		Number of worktable		Pcs	1
Cradle tumtable Min. indexing unit ° 0.001 Reference aperture mm Φ50H7 Max. speed of A-axis rpm 60 A-axis rotation range ° ± 120 A-axis rotation range N.m 2 × 2100 A-axis locking torque N.m 8000 Max. speed of A-axis rpm 70 B-axis rotation range ° 360 B-axis rotation range ° 360 B-axis rotation range N.m 4000 B-axis rotation groupe N.m 4000 Max. column travel mm 1300 Max. spindle box travel-Y mm 1200 Max. workable travel-Z mm 1100 Max. workpiece rotation range mm 4000 Distance from spindle rotary axis to table surface (table horizontal state) Min mm 150 Distance from table rotary centre to spindle front face (table horizontal status) Min mm 150 Distance from spindle end face to table top (table vertical status) Min mm 150<		Max. table load		Kg	1200
Reference aperture		T-Slot		mm	18H8
Cradle turntable Max. speed of A-axis rpm 60 A-axis rotation range ° ±120 A-axis rated torque N.m 2 × 2100 A-axis locking torque N.m 8000 Max. speed of A-axis rpm 70 B-axis rotation range ° 360 B-axis rated torque N.m 2100 B-axis locking torque N.m 4000 Max. solumn traval mm 1300 Max. solide box travel-Y mm 1200 Max. workplace rotation range mm 01000 Max. workplace rotation range mm 01000 Distance from spindle rotary axis to table surface (table horizontal state) Min mm 1150 Distance from table rotary centre to spindle rotary centre to spindle rotary axis to table top (table vertical status) Min mm 1350 Distance from spindle end face to table top (table vertical status) Min mm 1350 Spindle rotary axis to table top (table vertical status) Min mm 1050 Spindle rotary axis (table vertical status) <		Min. indexing unit		۰	0.001
Cradle turntable A-axis rotation range ° ± 120 A-axis rated torque N.m 2 × 2100 A-axis locking torque N.m 8000 Max. speed of A-axis rpm 70 B-axis rotation range ° 360 B-axis rated torque N.m 2100 B-axis locking torque N.m 4000 B-axis locking torque N.m 4000 Max. column traval mm 1300 Max. spindle box travel-Y mm 1200 Max. workpiece rotation range mm 1100 Max. workpiece rotation range mm 01000 Distance from spindle rotary axis to table surface (table horizontal state) Min mm -50 Distance from table rotary cantre to spindle front face (table horizontal state) Min mm 1250 Distance from spindle end face to table top (table vertical status) Min mm 1350 Spindle rotary axis to table top (table vertical status) Min mm 1050 Spindle rotary axis to table top (table vertical status) Min <t< td=""><td></td><td>Reference aperture</td><td></td><td>mm</td><td>Ф50Н7</td></t<>		Reference aperture		mm	Ф50Н7
A-axis rotation range		Max. speed of A-axis		rpm	60
A-axis locking torque	Cradle turntable	A-axis rotation range		۰	± 120
Max. speed of A-axis rpm 70 B-axis rotation range ° 360 B-axis rated torque N.m 2100 B-axis locking torque N.m 4000 Max. column traval mm 1300 Max. spindle box travel-Y mm 1200 Max. worktable travel-Z mm 1100 Max. workpiece rotation range mm Φ1000 Distance from spindle rotary Max mm 1150 axis to table surface Min mm 150 (table horzontal state) Max mm 1250 centre to spindle front face Min mm 150 Distance from spindle end Max mm 1350 centre to spindle front face Min mm 150 Usble horzontal state) Min mm 250 Spindle rotary axis to table top Max mm 1050 table rotary axis to table surface Max mm 1050		A-axis rated torque		N.m	2×2100
B-axis rotation range ° 360 B-axis rated torque N.m 2100 B-axis locking torque N.m 4000 Max. column traval mm 1300 Max. spindle box travel-Y mm 1200 Max. worktable travel-Z mm 1100 Max. workpiece rotation range mm 4000 Distance from spindle rotary mm 1150 axis to table surface Min mm 1150 (table horizontal state) Min mm -50 Distance from table rotary mm 1250 centre to spindle front face Min mm 150 (table horizontal state) Min mm 1350 face to table top face to table top face to table top face to table rotary axis to face to table rotary axis to face to table rotary axis to table rotary axis to face t				N.m	8000
B-axis rated torque	- 1			rpm	70
B-axis locking torque		·		۰	360
Max. column traval mm 1300 Max. spindle box travel-Y mm 1200 Max. worktable travel-Z mm 1100 Max. workpiece rotation range mm Φ1000 Distance from spindle rotary axis to table surface (table horizontal state) Max mm 1150 Distance from table rotary centre to spindle front face (table horizontal state) Min mm 1250 Distance from spindle end face to table top (table vertical status) Max mm 1350 Distance from spindle end face to table top (table vertical status) Min mm 250 Spindle rotary axis to table rotary axis to table rotary axis (table vertical state) Max mm 1050		B-axis rated torque			2100
Max. spindle box travel-Y mm 1200 Max. worktable travel-Z mm 1100 Max. workplece rotation range mm 01000 Distance from spindle rotary axis to table surface (table horizontal state) Max mm 1150 Distance from table rotary centre to spindle front face (table horizontal state) Max mm 1250 Distance from spindle end face to table top (table vertical status) Min mm 1350 Spindle fortary axis to table rotary axis to table rotary axis to table rotary axis (table vertical state) Max mm 1350 Min mm 250 1050 1050 1050		B-axis locking torque		N.m	4000
Max. worktable travel-Z mm 1100 Max. workpiece rotation range mm Φ1000 Distance from spindle rotary axis to table surface (table horizontal state) Max mm 1150 Machining range Distance from table rotary centre to spindle rotary centre to spindle front face (table horizontal state) Max mm 1250 Distance from spindle end face to table top (table vertical status) Min mm 1350 Spindle rotary axis to table rotary axis to table rotary axis to table rotary axis (table vertical state) Max mm 1050		Max. column traval		mm	1300
Max. workpiece rotation range mm Φ1000 Distance from spindle rotary axis to table surface (table horizontal state) Max mm 1150 Machining range Distance from spindle rotary axis to table rotary centre to spindle front face (table horizontal state) Min mm 1250 Distance from spindle front face (table horizontal state) Min mm 150 Distance from spindle end face to table top (table vertical status) Max mm 1350 Spindle rotary axis to table rotary axis to table rotary axis (table vertical state) Max mm 1050		·		mm	1200
Machining range Distance from spindle rotary axis to table surface (table horizontal state) Min mm 1150 Distance from table rotary centre to spindle front face (table horizontal state) Max mm 1250 Distance from spindle end face to table top (table vertical status) Min mm 150 Distance from spindle end face to table top (table vertical status) Max mm 1350 Spindle rotary axis to table rotary axis to table rotary axis (table vertical state) Max mm 1050				mm	1100
Machining range	Max. workpiece rota		ge	mm	Φ1000
Machining range (table horizontal state) Min mm -50 Distance from table rotary centre to spindle front face (table horizontal state) Max mm 1250 Distance from spindle end face to table top (table vertical status) Min mm 1350 Spindle rotary axis to table rotary axis (table vertical state) Max mm 250 Min mm 1050					1150
Distance from table rotary centre to spindle front face (table horizontal state) Min mm 150	Machining range		Min	mm	-50
(table horizontal state) Min mm 150 Distance from spindle end face to table top (table vertical status) Max mm 1350 Spindle rotary axis to table rotary axis (table vertical state) Min mm 250 Max mm 1050 mm -150	Machining range		Max	mm	1250
face to table top (table vertical status) Spindle rotary axis to table rotary axis (table vertical state) Min mm 250 Max mm 1050 table rotary axis (table vertical state) Min mm -150			Min	mm	150
(table vertical status)Minmm250Spindle rotary axis to table rotary axis (table vertical state)Maxmm1050Minmm-150			Max	mm	1350
table rotary axis (table vertical state) Min mm -150			Min	mm	250
(table vertical state) Min mm -150			Max	mm	1050
Spindle taper(7:24) HSK-A63			Min	mm	-150
		Spindle taper(7:24)			HSK-A63
Max. spindle speed r/min 16000		Max. spindle speed		r/min	16000
Spindle Output torque S1/S2 N.m 72/85	Spindle	Output torque S1/S2	ut torque S1/S2		72/85
Max. torque N.m 150		Max. torque		N.m	150
Spindle motor power Kw 30		Spindle motor power		Kw	30
Cutting feed speed range mm/min 1-20000	Food avatem	Cutting feed speed range		mm/min	1-20000
Feed system Rapid feed speed m/min 48	r eeu system	Rapid feed speed		m/min	48
Positioning accuracy. XY/Z mm 0.008	Positioning accuracy	X/Y/Z		mm	0.008
Positioning accuracy A/B arc/sec 8	rositioning accuracy	A/B		arc/sec	8
Repeat positioning X/Y/Z mm 0.004		X/Y/Z		mm	0.004
accuracy A/B arc/sec 4	accuracy	A/B		arc/sec	4

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5-AXIS HORIZONTAL MACHINING CENTER

HMC1000y



性能特点 PERFORMANCE

- Heavy-duty roller linear guideways are used in X, Y and Z axes to improve the rigidity of the machine.
- Adopts hollow water-cooled screw, precision water-cooled machine with constant temperature control, stable positioning accuracy of the machine tool.
- The machine's rapid traverse speed of 48m/min reduces machining time and improves machining efficiency.
- Adopts absolute Heidenhain system for control, high stability and speed
- Rotary table adopts direct drive technology, no intermediate transmission link, high positioning accuracy
- Adoption of precision electric spindle, high speed, low vibration, high processing efficiency
- Spindle box lifting adopts double-screw synchronous double-drive technology, which enhances the lifting response speed.
- The machine adopts T-shaped three-point support integral bed, and the structure is made more reasonable through finite element analysis in the design process.

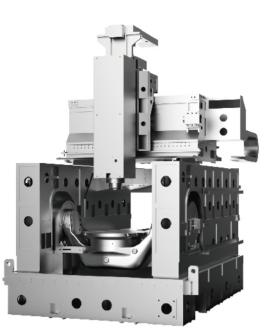
STANDARD

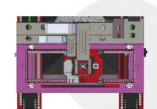
选择配置

- Standard with Heidenhain TNC640/TNC7
- Full closed-loop control
- Hollow screw thermostatic water cooling
- 40T Chain type tool magazine
- Double screw chip conveyor + double chain chip conveyor + top chip
- 60T chain tool magazine
- Automatic Tool Measuring System
- Coolant through spindle
- Siemens SINUMERIK CNC control system

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► DMC1200U: Beam part with box-in-box structure

Main parameter	Unit	DMC500u	DMC650u	DMC800u	DMC1000u	DMC1200u
Table size	mm	ф 500	ф 650	ф 800	ф 1000	ф 1250X1100
T slot	mm	14H8	14H8	14H8	14H8	18H8
Table center hole	mm	ф 50H8	ф 50H8	ф 50 Н 8	ф 50H8	ф 50 H 8
Max. table load	kg	500	1000	1200	1200	2500
X-axis travel	mm	500	650	850	1000	1100
Y-axis travel	mm	600	800	850	1200	1500
Z-axis travel	mm	450	600	700	800	1000
A-axis rotation range	0	± 120	± 120	± 120	± 120	± 120
C-axis rotation range	0	360	360	360	360	360
Distance from spindle end face to table surface	mm	130-580	150-750	150-850	150-850	150-1150
Spindle taper		HSK-A63	HSK-A63	HSK-A63	HSK-A100	HSK-A100
Max. spindle speed	rpm	20000	20000	20000	10000	10000
Main spindle power	kW	31/37.2	31/37.2	31/37.2	36.7/46	36.7/46
Spindle torque	N.m	100.4/120.5	100.4/120.5	100.4/120.5	200/240.2	200/240.2
Tool magazine type		Flat Chain Type				
Tool magazine capacity	pcs	32	40	40	32	32
Max. tool dia (Full / Empty)	mm	φ 76/ φ 125	φ 76/ φ 125	φ 76/ φ 125	φ 100/ φ 200	φ 110/ φ 200
Max. tool length	mm	300	300	300	400	400
Max. tool weight	kg	7	7	7	15	15
Tool change time (T-T)	s	4	4	4	4	4
Rapid feed speed (X/Y/Z)	mm/min	48000/48000/48000	48000/48000/48000	32000/32000/32000	24000/24000/24000	24000/24000/24000
Cutting fees speed (X/Y/Z)	mm/min	1-12000/1-12000/ 1-12000	1-12000/1-12000/ 1-12000	1-12000/1-12000/ 1-12000	1-12000/1-12000/ 1-12000	1-10000/1-10000/ 1-10000
Positioning accuracy (X/Y/Z)	mm	0.006	0.006	0.006	0.008	0.008
Positioning accuracy (A/C)	"	±5	±5	±5	±5	±5
Repeat positioning accurayc (X/Y/Z)	mm	0.005	0.005	0.005	0.006	0.006
Repeat positioning accurayc (A/C)	"	4	4	4	4	4
Machine Weight	kg	11000	15000	18000	22000	25000
Machine overall size	mm	4122X2500X3250	4450X2715X3750	4775X2930X4250	5900X2310X4350	6400X4510X4500

FIVE-AXIS VERTICAL MACHINING CENTER

DMC800u



性能特点 PERFORMANCE

标准配置

STANDARD

Excellent structural design

- Bed, column double U-shaped structure design, constituting a return force flow structure, greatly improving the rigidity of the machine and accuracy retention.
- Compact machine layout with guideways, drives and tool changers safely locates outside the machin-
- The four beveled square-open chip discharge structure in the inner cavity of the bed constitutes a smooth chip discharge method, which reduces the accumulation of iron chips during the machining process of the machine.
- The column adopts a center-mounted ball screw transmission structure, which effectively suppresses the vibration of the machine tool during high acceleration and deceleration.
- The crossbeam adopts a large span 4 guide rails support structure, which effectively improves the rigidity of the whole machine operation and increases the machining precision.

Highly reliable and efficient drive positioning system

- X, Y, Z are connected to high-precision ball screw through backlash-free elastic coupling , to ensure the positioning accuracy of the machine tools
- X and Z axis adopts Taiwan HIWIN 45mm wide roller linear guideway, Y axis adopts 4pcs 55mm roller linear guideway to improve transmission rigidity.
- - The rotary axes A and C are equipped with high torque motors, which optimizes the rotary accuracy - Turning function of the whole machine. The table load capacity is up to 1200kg, with large processing range. The working table has a large swing range of ±120°, and can process 30° bottom cutting processing.
- Configured with high torque and high speed electric spindle, with wide range of speed change; constant temperature water circulation cooling method ensures the stability of spindle rotary

Reasonable configuration

- Pneumatic protection door is equipped between the machining area and the tool magazine, and the protection design is humanized.
- The spindle adopts air blowing structure, and the inner taper hole of the spindle and the shank of the tool are cleaned before the tool change to remove - the residue and ensure the high precision and rigidity of the spindle.
- 3D simulation and comprehensive tool management functions are possible.
- The machine adopts centralized automatic lubrication device with electric pump to lubricate the screw and guideway surface automatically and intermittently at regular time and quantity, which is stable and reliable.

- Built-in electric spindle unit

- High torque A and C 5-axis rotary table
- Linear scale on three axes
- Siemens ONE control system
- 32 pcs tool magazine

选择配置

- Heidenhain TNC640/TNC7 controller
- Laser tool setter
- Automatic Workpiece Measuring System
- 40/60 pcs tool magazine
- X,Y linear motor, Z double drive





性能特点 PERFORMANCE

- Truss frame layout, integrated design structure of column and bed
- The bed, column, slide, table and spindle box is with reinforcement and corner support plates
- Germany roller linear guides for X,Y,Z axis
- The motors of X Y Z axis and the lead screws are directly connected with a gapless elastic coupling
- Drive type spindle unit

标准配置

STANDARD

- Siemens Sinumerik One
- - Taiwan direct drive motor rotary table with double axis and single
- Full-axis scales with fully closed-loop control
- Chain type chip conveyor

选择配置

OPTION

- Heidenhain TNC 640 / TNC7 five axis linkage CNC control system
- Linear motor
- Online inspection system for tools and workpieces
- Coolant through spindle
- Turning-milling function
- 4+1 axis, 3+2 axis

Main specifications	Unit	CMC500u	CMC650u	CMC700u
Table size	mm	φ 500	φ 650×540	ф 700
T-slot size	mm	5-14-80	14	18H8
Table center hole	mm	ф 50	φ 50	ф 50
Max. table load	kg	300	300	650
X-axis travel	mm	550	650	650
Y-axis travel	mm	450	520	520
Z-axis travel	mm	400	475	475
B-axis rotation range	٥	-120° /+120°	±120	-120° /+120°
C-axis rotation range	٥	360	360	360
Distance from spindle nose to table surface	mm	120-550	150-625	150-625
Spindle taper		BBT40	BBT40	BBT40
Max. spindle speed	rpm	12000	12000	12000
Spindle motor power	kW	7/11	9	9
Max. torque of spindle	N.m	38/57	45	63/94
Tool magazine type		Arm type	Arm type	Arm type
Tool magazine capacity	pcs	24	24	24
Max. diameter of tool(Full/Empty)	mm	φ 78/ φ 150	φ 78/ φ 150	φ 78/ φ 150
Max. tool length	mm	300	300	300
Max. tool weight	kg	8	8	8
Tool change time(T-T)	S	1.55	1.55	1.55
Rapid feed speed(X/Y/Z)	mm/min	36000/36000/36000	42000/42000/42000	42000/42000/42000
Cutting feed speed(X/Y/Z)	mm/min	1-10000/1-10000/1-10000	1-10000/1-10000/1-10000	1-10000/1-10000/1-10000
Positioning accuracy (XY/Z)	mm	0.008 JIS	0.008 JIS	0.008 JIS
Positioning accuracy (B/C)	N	±5	±5	±5
Repeat positioning accuracy(X/Y/Z)	mm	0.005 JIS	0.005 JIS	±0.005 JIS
Repeat positioning accuracy(B/C)	W	4	4	4
Machine weight	kg	6500	9500	9500
Machine overall size	mm	3500X3365X3000	3970X3210X2800	3720X3540X3050

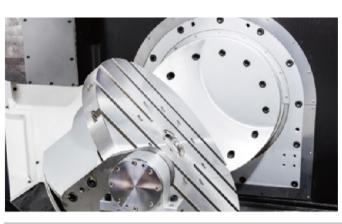


CMC650u











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性能特点 PERFORMANCE

- Integrated structure of bed and column, low gravity center and stable machine structure, to ensure high static and dynamic stability of the whole
- Compact machine layout with guides, drives, measuring systems and tool changing systems safely locates outside the machining area
- The large slope design of the bed allows the chips to fall freely to the chip conveyor, optimizing the processing interval and processing environment
- Large swinging range of the rotary table, up to 115°, and it can process 20°undercut

STANDARD

选择配置

OPTION

- Fanuc 0i MF Plus CNC controller
- B, C-axis scale, fully closed-loop control
- Taiwan 12000rpm direct connect spindle
- Spindle constant temperature cooling system

- HNC 818, Siemens 828D CNC controller
- X, Y, Z axis scales
- Online inspection system for tools and workpieces
- Coolant through spindle

Main specifications	Unit	CMC500f
Table size	mm	φ 630×500
T-slot size	mm	14
Table center hole	mm	ф 30
Max. table load	kg	200
X-axis travel	mm	550
Y-axis travel	mm	450
Z-axis travel	mm	400
B-axis rotation range	0	-5/110
C-axis rotation range	0	360
Distance from spindle nose to table surface	mm	150-550
Spindle taper		BT40
Max. spindle speed	rpm	12000
Spindle motor power	kW	7.5
Max. torque of spindle	N.m	35.8/70
Tool magazine type		Arm type
Tool magazine capacity	pcs	24
Max. diameter of tool(Full/Empty)	mm	φ 78/ φ 150
Max. tool length	mm	300
Max. tool weight	kg	8
Tool change time(T-T)	S	1.55
Rapid feed speed(X/Y/Z)	mm/min	30000/30000
Cutting feed speed(X/Y/Z)	mm/min	1-10000/1-10000/1-10000
Positioning accuracy (X/Y/Z)	mm	0.012
Positioning accuracy (B/C)	*	28
Repeat positioning accuracy(X/Y/Z)	mm	0.01
Repeat positioning accuracy (B/C)	*	16
Machine weight	kg	6000
Machine overall size	mm	3500X3400X2700



CIVIC500f





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主要结构特点 MAIN STRUCTURAL FEATURES

Excellent structure design

- Column and base in one piece with low gravity and stable structure to make the machine with high static and dynamic stability.
- Compact design :linear guides, driven, measuring and tool change system are all safely beyond of the machining area.
- Large-scope bed design to make sure the chips easily falling to the chip conveyor leading to a perfect machining environments.
- - The whole machine adopts A and B swing layout combining with XYZ to realize 5 axis interpolation.

High reliable and efficiency transmission system

- Direct driven by imported gap-free coupling in XYZ axis to ensure the transmission rigidity and machine positioning accuracy.
- - High accuracy roller type guideway in XYZ axis and DD motor in A B axis to optimize the machine spatial accuracy.
- Large swing in B axis to be 80 degree.

Automated and humanized accessories

- - The guard plate between the machining area and the tool magazine makes the protection design more user-friendly.
- The spindle adopts the centre blowing structure to clean the inner taper hole of the spindle and the shank of the tool before tool change to remove the residue and ensure the high precision and rigidity of the spindle.
- The machine is equipped with the high tech siemens one system to realize 3D simulation and tool management function.
- The machine is equipped with electric centralized lubrication pump which is stable and reliable to lubricate the screw and linear guideway surface

	Dimensions of workpiece processing area	
Max. processing diameter	mm	300
Max. processing length	mm	350 (Distance between two heads 500 mm)
Number of linkage	axes	5
	Accuracy	
Linear axis positioning accuracy	μ	8
Circular axis positioning accuracy	*	8
	Characteristics of linear axes	
X/Y/Z/U travel	mm	700/300/400/300
Max. X/Y/Z/U axis speed	m/min	36/36/32/10
	Characteristics of rotary axes	
B axis movement range	٠	±40
Max. B axis speed	rpm	40
A axis movement range	•	360
Max. A axis speed	rpm	200
	Spindle + Tool magazine specification	
S1/S6 motor power	kw	30/39
S1/S6 torque	N.m	95/124
Max. spindle speed	rpm	15000
Drive type	-	Electric spindle
Tool magazine capacity		24
Spindle taper	-	HSK-A63



D5B-300