

Drilling center (JN-T700)

Technical Document

By Jiangnan CNC Machine Co., Ltd.

By Jiangnan Technology (Songyang) Co., Ltd.





The picture is for reference only, the actual appearance may vary slightly due to selected

configurations.

Party A: :

Party B: Jiangnan CNC Machine Tool Co., Ltd.

Date:

Date:

Address: Daqiao Industrial Zone, Yueqing





1.Company Profile



Jiangnan CNC Machine Tool Co., Ltd. is located in the beautiful coastal city of Wenzhou, China. It is a CNC machine manufacturing enterprise integrating research, design,

manufacturing, and sales. The company was established in September 2006 and currently has a standardized plant covering an area of 85,000 square meters, with more than 180 excellent staff members. Among them, 90 employees have a college degree or above, accounting for 50% of the total staff; the company has 20 research and development personnel, accounting for 9% of the total workforce.

Adhering to the business philosophy of "technological innovation, win-win cooperation, integrity and efficiency, sincere service," and the quality policy of "quality first, customer foremost," the company provides customers with the most cost-effective products and comprehensive services, aiming to create the maximum value for customers. With advanced equipment including the world's most advanced large-scale CNC five-axis machining center and horizontal machining center, as well as contour grinding machines and high-precision Renishaw inspection equipment, the company strictly adheres to international standards. It has obtained ISO9001 certification and implements rigorous process inspections to ensure product quality.

The company mainly manufactures vertical Machining Centers, horizontal Machining Centers, drilling and tapping machine, gantry series, CNC lathes, and other series of products:

CHNCIT 江南数控

- 1. Vertical Machining Centers: JN-IV850, JN-NV856, JN-NV900, JN-NV1050, JN-IV1160, JN-NV1300, JN-NV1690, etc.
- 2. Horizontal Machining Centers: JN-H50, JN-IH50, JN-H63, JN-IH63, JN-H800, JN-H1810, etc.
- 3. Drilling and Tapping Machines: JN-T500, JN-T700, etc.
- 4. CNC Lathes: JN-CH106, JN-CH108, JN-CH108M, JN-CH108MY, JN-CH208, JN-CH506MSY, etc.
- 5. Gantry Series: JN-GL2013, JN-GL2015, JN-GL2518, JN-GL2720, JN-GL3023, JN-GL4023, JN-GL4027, JN-GL5030C, etc.

Our machine tools are popular in major provinces and cities in China, including Beijing, Shanghai, Chongqing, Tianjin, Hebei, Henan, Shanxi, Shandong, Jiangsu, Zhejiang, Guangdong, Anhui, Hubei, Fujian, and others, due to their excellent performance and first-class after-sales service. The company adopts a combination of direct sales and distributorship models and has cooperated with 100 distributors nationwide, covering major cities across the country.

Jiangnan CNC – A national brand, a national pride! We sincerely invite you to join with us to create a new era of high-tech machinery!

2.Introduction the Songyang Factory



Phone: 0577-62867288-804 City, Wenzhou, Zhejiang Province, China

Address: Daqiao Industrial Zone, Yueqing

CHNCIT 江南数控

Jiangnan Technology (Songyang) Co., Ltd., a wholly-owned subsidiary of Jiangnan CNC Machine Tool Co., Ltd., was established in August 2017. Located in the beautiful scenic city of Songyang, Lishui, it covers an area of 107.69 acres with a total construction area of 29,693 square meters. The company has a registered capital of 50 million yuan, with fixed asset investment of 300 million yuan and working capital investment of 70 million yuan. It has introduced multiple sets of high-precision equipment such as the Japanese DAIWA CNC gantry five-axis machining center and horizontal machining centers.

Building on the development foundation of its parent company, Jiangnan Technology actively promotes brand building and product serialization strategies. Internally, it implements ERP systems and information construction, optimizing business processes, and enhancing the company's management level and core competitiveness. Facing the challenges of economic globalization, Jiangnan will continue to focus on the CNC machining center industry, adhere to market-oriented business philosophy, and persist in the direction of "internationalization, technologicalization, and industrialization." It will vigorously introduce advanced equipment, technology, and talents, integrate resources, leverage strengths, and strive to shape "Jiangnan" into a well-known enterprise in the international CNC machining center industry.

ltem		Unit	Specification	
	Table size	mm	800*400	
\//orl/table	Processing range	mm	700*400	
Worktable	T-slot	mm	125*14*3	
	Table load	kg	300	
	X/Y/Z travel	mm	700/400/330	
Travel	Spindle nose to table surface	mm	150-480 (Optional increase in height 100mm)	
	Spindle center to column surface	mm	430	
	Spindle taper		BT30	
	Spindle speed	rpm	20000	
Spindle	Spindle diameter	mm	105	
	Spindle bearing	PCS	4XNSK7010C	
	Spindle drive method		Direct drive	
Spindle	Spindle motor	kw	3.7-5.5	

3. The technical parameters of the JN-T700

Address: Daqiao Industrial Zone, Yueqing



Motor			
Feed Rate	X/Y/Z cutting feed	mm/min	1~12000
reeu kale	X/Y/Z rapid feed	m/min	48/48/48
Precision	Positioning accuracy	mm	0.008
PIECISION	Repeat positioning accuracy	mm	0.005
	Tool magazine capacity	Т	21
Automatic	Tool change method		clamp arm
Tool	Max. tool diameter	mm	Ф60
Change System	Max. tool diameter(Adjancent vacant)	mm	Ф80
(Optional)	Max. tool length	mm	250
	Max. tool weight	kg	3
	Tool change time	S	1.75 (T-T)
	Air pressure demand	kg/cm2	0.35-0.6
	Cooling pump	W	1200
Others	Power requirement	KVA	15
	Machine weight	kg	3500
	Machine size	mm	1960*2500*2200

The actual values for power supply, air pressure source, machine weight, and overall dimensions may vary due to different configurations and peripheral equipment.

4.Detailed supplier of main components

NO.	Name	Manufacturer	Brand Origin	Remarks
1	CNC System	FANUC	Japan	FANUC 0i-MF
2	Spindle Motor	FANUC	Japan	αil2/20000
3	X/Y/Z Axis	FANUC	Japan	αiS8/4000 αiS8/4000 αiS12B/4000
4	Ballscrew (X/Y/Z Axis)	PMI/XIANGLONG/THK	Taiwan/Japan	28/28/32
5	Linear Guideway (X/Y/Z Axis)	PMI/Rexroth/THK	Taiwan/Germany /Japan	30/30/35
6 one: 05	Bearing 577-62867288-804	NACHI	Japan Address: Dagiao Inc	Justrial Zone, Yueqing



7	Electric Lubrication System	HERG	Joint Venture
8	Principal axis	VYU CHENG/DEJO	Taiwan
9	Tool magazine	dejie/sanjet	Taiwan
10	Cooling Pump	STAIRS	Taiwan
11	Pneumatic Components	SMC	Japan
12	Transformer		LUHO
13	Electrical Components	Schneider	France
14	Telescopic Cover	ETEK/KEYARROW	
15	Rear flush	CHNCIT	China
16	Machine Peripheral Sheet Metal	CHNCIT	China

Note: If any supplier fails to supply, it will be replaced with a brand of equal quality without further notice.

5.Optional accessories list

No.	Name	Quantity/Unit	Note
1			
2			
3			
4			
5			
6			
7			
8			

6.Tools and manuals list

No.	Name	Quantity/Unit	Remarks
1	Toolbox	1Set	
2	Certificate of conformity	1Сору	

Address: Daqiao Industrial Zone, Yueqing



3	Machine specification	1Set	
4	System specification	1Set	
5	Air gun	1 Piece	

7.Machine Mechanical Indicators

1、 Machine Structure

Machine Structure The main structural components of the machine tool are made of high-tensile cast iron, optimized in design for high static rigidity. The spindle features a high-rigidity structure, high mechanical efficiency, suitable for high-precision heavy cutting machining. The spindle motor adopts AC servo technology, enabling stepless speed regulation in both forward and reverse directions. The three-axis ball screw and servo motor drive directly, with no transmission cumulative error, ensuring high repeatability and positioning accuracy. Automatic tool changing structure, quick and smooth tool changing operation. All machine components and various measurement units comply with international (ISO) standards.

2、 Machine Protection

Machine Protection The machine protection device is safe, complete, and reliable. Machine noise: in compliance with national standards, 75dB. Electrical control cabinet sealed to prevent dust and water, IP65 rating.

3、Lubrication System

Lubrication System Adopts TZ electric lubrication device to quantitatively lubricate all sliding surfaces and ball screws. Adjustable lubrication time intervals and amounts to ensure 100% lubrication at all lubrication points. Machine displays an alarm in case of low oil level (oil shortage). Uses 68# guide rail lubricating oil. Lubrication tank capacity: 2 liters. Lubrication pump voltage: 220V, motor output power: 25W, maximum pressure: 2.5MPa, discharge flow rate: 110ml/min.

4、Pneumatic System

Pneumatic System Pneumatic system, pressure switches, solenoid valves, etc., realize pneumatic tool changing, pressure: 6-8KG/C m², flow rate: 220L/MIN, can clean the working area.

5、Electrical System

Electrical System The standard system has complete and reliable interlocking, safety protection, and fault self-diagnosis alarm functions. Equipped with RS232 standard communication interface, can use computer floppy disk for program storage. (Other systems can be provided according to user requirements).