

Specification Table			
Model		Unit	JN-T500
Travel	X axis	mm (inch)	500 (19.7)
	Y axis	mm (inch)	400 (15.7)
	Z axis	mm (inch)	330 (12.9)
	Spindle nose to table	mm (inch)	150-480 (5.9-18.9)
	Spindle centre to solid column surface	mm (inch)	430 (16.9)
Table	Working area	mm (inch)	650*400 (25.6*15.7)
	Max.loading	kg	350
	T-slots(No.*Width*Pitch)	mm (inch)	3*14*125 (3*0.5*4.9)
Spindle	Tool shank	-	BT30
	Speed	rpm	12000 (OPT15000)
	transmission	-	Direct drive
	Bearing lubrication	-	Grease
	Cooling system	-	Oil cooled
	Spindle motor max.rating	kw (HP)	7.5 (10)
	Axis motor max.rating(MITSUBISHI)	kw	1.5/1.5/3.0
	Axis motor max.rating(FANUC)	kw	1.8/1.8/2.5
Feed rates	Rapids on X/Y/Z axis	m/min	60/60/60
	Max. Cutting feedrate	m/min	12/12/12
Tool magazine	Tool storage capacity	pcs	21
	Type of tool (optional)	type	BT30
	Max.tool diameter	mm (inch)	60 (2.3) turret
	Max.tool weight	kg	3
	Max. Tool length	mm (inch)	250 (9.8) turret
Avg.changing Time (ARM)	Tool to tool	sec.	0.35 (60HZ)
	Air source required	kg/cm ²	6 up
Accuracy	Positioning (VDI3341)	mm (inch)	0.01 (0.0004)
	Repeatability (VDI3341)	mm (inch)	0.005 (0.0002)
Dimension	Machine weight(net)	kg	5000
	Power source required	kva	20
	Shipping Floor plan(L*W*H) water tank and chip conveyor not included	mm (inch)	1800*2100*2200 (70.8*82.7*86.6)
	Floor plan (L*W*H)	mm (inch)	1800*2600*2500 (70.8*102.4*98.4)

Configuration List
Standard Accessories
Fanuc controller
Spindle speed 8000/10000/12000/20000 rpm(depend on machine model)
Automatic tool changer
Full splash guard
Heat exchanger for lectric cabinet
Automatic lubricating system
Spindle air blast system
Spindle oil cooler
Spindle air curtain
Spindle orientation
Coolant gun and air socket
LED light
Rigid tapping
Coolant system and tank
Cycle finish indicator and alarm lights

Note: Due to the continuous research and development of products and continuous technological innovation, the company has the right to change and the right to final interpretation, without prior notice.



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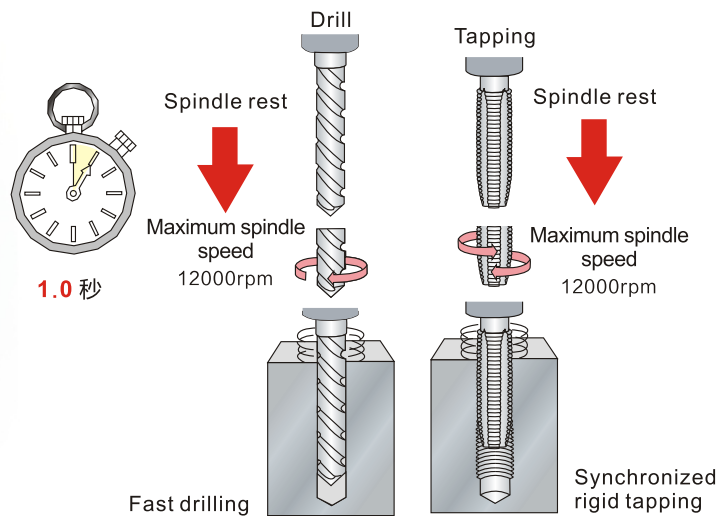
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JN-T500
HIGH SPEED
DRILLING & TAPPING
MACHINING CENTER

- Structural design with High rigidity and dynamic performance
- Fully enclosed protection, oil mist recovery machine
- Air blowing in the center of the spindle and air curtain protection of the spindle
- High speed and high precision performance control system

HIGH SPEED DRILLING & TAPPING MACHINING CENTER



- The spindle box of spindle direct connection type adopts thermal symmetry to reduce the influence of thermal deformation of spindle on the dimensional accuracy of parts.
- The front end of the spindle is equipped with large size bearings with diameter of 45, which greatly improves the rigidity and stability of the spindle.
- The design of the main shaft structure of the heat insulation source reduces the thermal displacement. Improve the accuracy and life of the spindle.

Introduction to machine tools

X/Y/Z feed shaft (60m/min) optimization is a method to improve the dynamic performance with HRV control technology. The method of improving the dynamic characteristics of feed shaft by increasing transmission ratio is suitable for high-speed mobile machine tools. The output speed of servo motor does not reach the rated speed. The matching performance can be improved by increasing transmission ratio.

The control system is equipped with the highest performance high-speed and high-precision control system, Mitsubishi M80B system, which improves the accuracy, production efficiency and process safety.

Comparison of Z-axis positioning time

Location time (ms)

Old models

JN-T500

Reduce about 25%

※ Z-Axis Origin Move to Travel Center

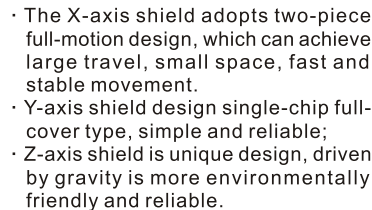
	Old model	JN-T500
Z-axis acceleration:	1.1 G	2.2 G
<p>Because the Z-axis moves most frequently, the acceleration of the Z-axis is about two times higher than that of the old model.</p> <p>The most appropriate acceleration according to the load</p>		
(Maximum load):	1.4 G / 1.1 G	
(Load 150 kg):	2.0 G / 1.3 G	

※The acceleration load of S500 needs to be set according to the parameters.

HIGH SPEED DRILLING & TAPPING MACHINING CENTER



- All castings are analyzed by FEM finite element method with rigidity, dynamic, damping, frequency and restraint optimization design.
- Compared with the same machine, the rigidity of the machine increased by 70%.



- The air pressure system is centralized and hung outside the protection, which is easy to manage and maintain.
- Mechanical decompression, no circuit malfunction and alarm risk, to ensure the normal operation of machine tools.



The special tool library in Jiangnan is designed with frequency conversion motor, which can be controlled by PLC software to achieve rapid tool change and more reliable performance. The cam drives the tool library to ensure the smooth operation of precision transmission when using heavy cutters.



- Closed electric cabinet, prevent any oil mist, water mist into the cabinet, so as to avoid damp electrical components and short circuit or damage;
- Electrical standards meet safety requirements, standardized machine tools.

HIGH SPEED DRILLING & TAPPING MACHINING CENTER

OUTPUT POWER (kW)

7.5

5.5

4.5

3.3

0

0

1500

6000

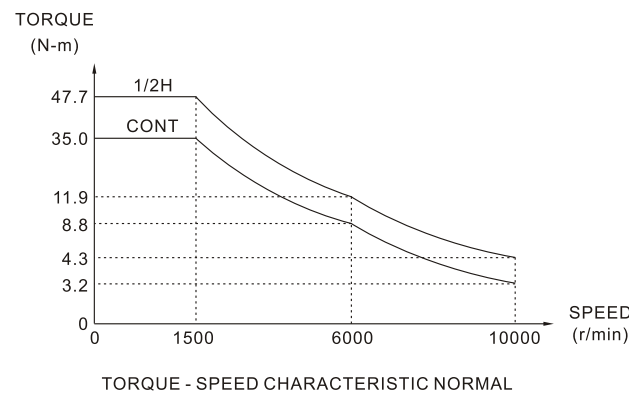
10000

1/2H

CONT

SPEED (r/min)

OUTPUT POWER - SPEED CHARACTERISTIC NORMAL



Technical drawing of the JN-T500 machine, showing front and side views with dimensions.

Front View Dimensions:

- Overall width: 1760
- Width of the main body: 1020
- Width of the side panel: 325
- Overall height: 2203.44
- Height of the main body: 1775.70
- Height of the side panel: 2162

Side View Dimensions:

- Overall width: 1760
- Width of the main body: 1020
- Width of the side panel: 325

The machine is labeled **JN-T500** on the front panel.

