TAKUMI VTSeries

High Speed Drill/ Tapping Machine Center

V7500

TOTALSTE

VT500

VT Series

Basic Structure

The Takumi VT Series, drill and tapping center machining center, is designed for light and fast machining of small to medium parts and high precision dies and molds. Thanks to the high accuracy and speed, VT Series enables a wider range of machining applications such as 3C, electronic and automobile industry. The advantage of compact footprint enhance the space utility of the factory tremendously.



High rigidity structure

Bed, columns, saddle and other main castings are made of Meehanite grade cast iron and remove the internal stress by heat treatment to ensure the best structural stability and positioning accuracy.

The VT Series achieves high-rigidity and optimal machine structure by using FEM analysis from the design.



Solid type Stability Constructure

Combined with high rigidity large base span column, which offer absolute stability and accuracy. The low gravity center strengthens the structural rigidity of the machine base. Reduces vibration during cutting.

User Convenience



Stable ATC system

With the mechanical tool changing design, the tool change time has been optimized to reduce non cutting time.

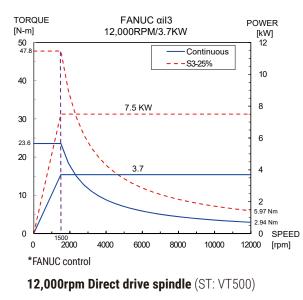
The tool change is synchronize with the movement of Z axis, which assures high speed and high produtivity.

Direct Spindle



Stable spindle cooling circulation

Spindle temperature is constantly controlled by oil chiller. Our test result have proven that the temperature of the circulating oil is controlled within certain variation, which minimizes thermal displacement during continuous operation at high speed.

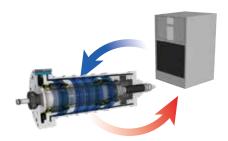


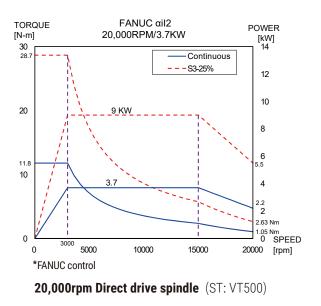
3.7/7.5 kw Power (Cont./S3-25%) 23.6/47.8 N.m Torque (Cont./S3-25%)

Compact Footprint

High speed direct drive spindle

The high-power direct drive spindle limits vibration, noise and power loss during high speed rotations to achieve superior part finish.





3.7/9 kW Power (Cont./S3-25%) 11.8/28.7 N.m Torque (Cont./S3-25%)



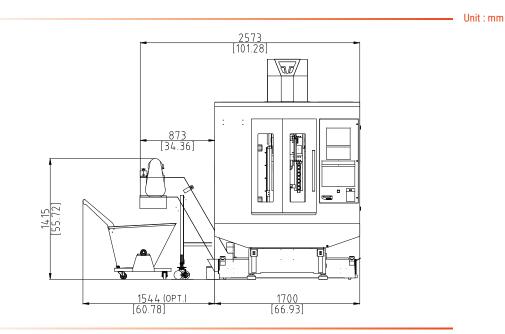
Small footprint

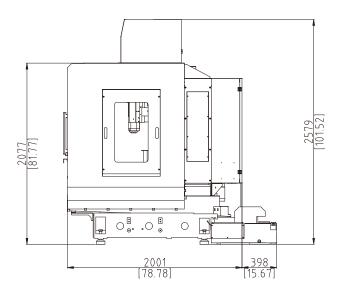
The dimension of the machine on the front side is only 1,700mm, which increases the productivity by saving factory floor space.

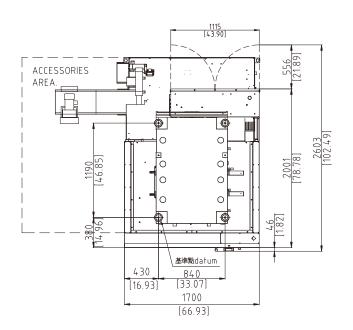


External Dimension

VT500









Machine Specification

Travel	VT500
X/Y/Z-axis	500 / 400 / 320mm
Distance from spindle nose to table	160-480mm (short column)
	260-580mm (long column)
Table	
Dimension	650 x 400mm
Max. load	250kg
	141050
<u>T-slot</u>	14 x 125 x 3mm
Spindle Spindle type	Direct drive
Spindle	Direct drive 12000rpm
Spindle Spindle type	Direct drive
Spindle Spindle type Spindle speed	Direct drive 12000rpm
Spindle Spindle type Spindle speed Spindle motor power	Direct drive 12000rpm 3.7kW/5.5kW (Cont./S3-25%)
Spindle Spindle type Spindle speed Spindle motor power Spindle taper Feed	Direct drive 12000rpm 3.7kW/5.5kW (Cont./S3-25%)
Spindle Spindle type Spindle speed Spindle motor power Spindle taper	Direct drive 12000rpm 3.7kW/5.5kW (Cont./S3-25%) BT30

ATC & Magazine

3	
ATC type	Turret
Number of tools	21pcs
Max. tool diameter (next pockets epmty)	80mm
Max. tool length	150mm
Max. tool weight	3kg

Supply

Air pressure	6kgf/cm ²
Electric power supply	20kVA

Net weight

Machine weight	2500kg

• The specifications and information may be changed without prior notice.

Standard & Optional

Standard:

Fanuc 0iMF-Plus 10.4" 12,000rpm, BT30, direct spindle 21T, turret Spindle air curtain Cutting coolant system Flush coolant system Manual pulse generator Full chip enclosure Working light 3-Color signal light Heat exchange for electric cabinet (fan) Leveling block and screws Maintenance tools Manuals

Optional:

20,000rpm, BT30, direct drive Long column Spindle oil cooler Coolant through spindle (20bar) Chain type chip conveyor Workpiece measurement Tool measurement 4th axis rotary table CNC tilting rotary table (4+1 axis) Transformer CE certifided

TAKUMI When Precision Matters



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VT-01-EN-202303