







DRILL/TAPPING
MAJCHINE GENTER

1/1-500













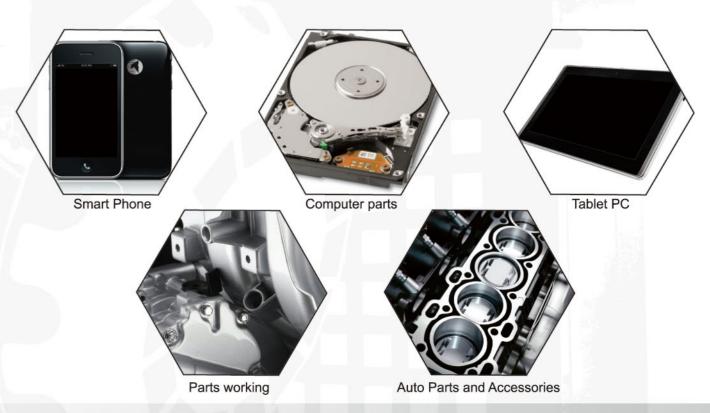




VT500 MAGNIE GENTER

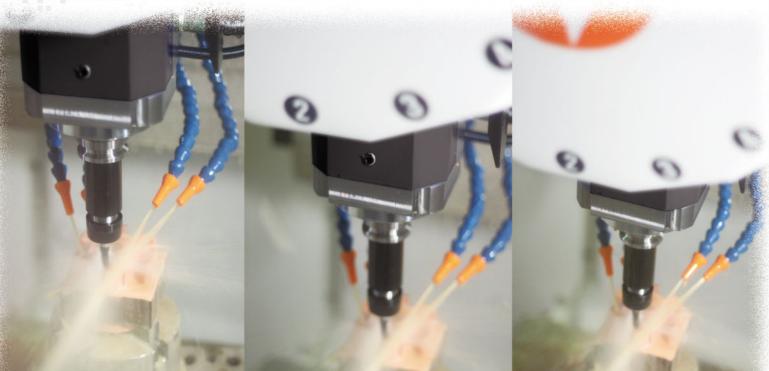
The achievement of Takumi's innovation and technologyThe perfect performance of high speed and high accuracy.

TAKUMI R & D team to adhere high speed performance design concept of 3C and auto parts industry, to successful development of a new generation of high-performance drilling and tapping machine, effectively enhance the quality of the light and rapid cutting, excellent high-speed drilling and tapping. Maximize your working efficiency and benefits.





- Standard spindle 12,000rpm
 Optional spindle 20,000rpm
- Rigid tapping 4000rpm
- Spindle taper BT30
- 3 axis feedrate 48/48/48 m/min
 (Mitsubishi Specification only)
- High speed ATC system (T-T:1.5 sec)
- Direct drive type spindle
- 3 axis high speed linear guide way
- Minimum floor space
 Machine width only 1,800mm
 Reduce the use of area, saving the cost.

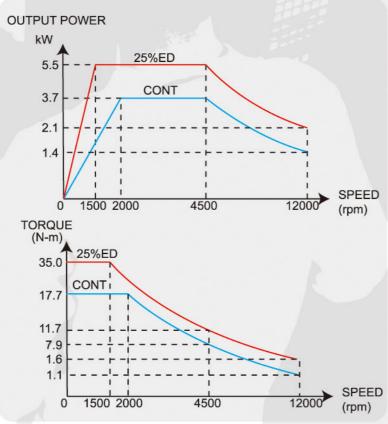


• Tool change time (T-T): 1.5 sec

High speed & stability ATC equipment

• Simple structure, stable and reliable, reducing non-cutting time, enhance the use of machine performance.

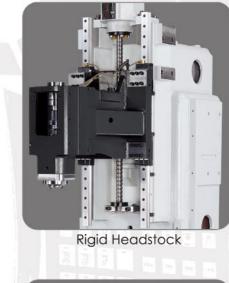




Direct drive spindle 12000rpm(Std)/20000rpm(Opt)

- The spindle is directly driven by a motor without noise, backlash or vibration problems, which usually occur on belt or gear-driven spindle.
- The direct drive spindle design provides higher motor efficiency.

- All of 3 axes are equipped with high precision linear guide ways.
- Bed, table, column, beam, saddle and other main casting are made of Meehanite grade cast iron and released the stress by heat treatment.
- Box shape bed ensures the best structural rigidity.
 Columns are made of one piece casting.
- 3-axis ball screws are drove by coupling, which enhances the rigidity and positioning accuracy.
- X/Y/Z axis ball screws and linear guide ways are lubricated by centralized automatic lubrication system (oil type).
- Wider front door opening makes workpiece easier to be loaded and unloaded.
- Full enclosed splash guard provides safety during operation. (Optional)





A type Stability Constructure O

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.

Application

Drilling/Aluminum Max. diameter

Ø32 Speed drilling Tool Speed 700 rpm Feedrate 200 mm/min

Drilling/ \$45C Max. diameter

Ø26 mm

Ø26 Drilling 300 rpm Speed Feedrate 60 mm/min Deepth 30 mm

Tapping/S45C

M20

Tool 240 rpm Speed Feedrate 600 mm/min Deepth 28 mm

Face Milling/ Aluminum

00 c.c/min

Tool Ø50 Face Milling Speed 1500 rpm Feedrate 10,000 mm/min Width 40 mm Deepth 2.5 mm

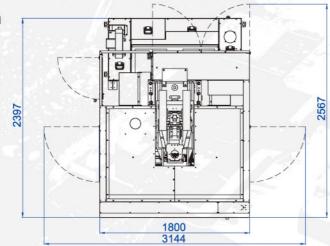
Face Milling/ \$45C

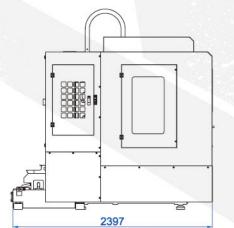
50 c.c/min

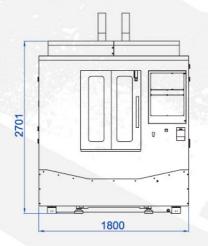
Ø50 Face Milling 1500 rpm Speed Feedrate 1,800 mm/min Width 40 mm Deepth 2 mm

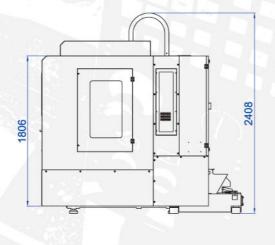
Ø50 Face Milling Tool 1200 rpm Feedrate 600 mm/min

Machine Dimension unit: mm









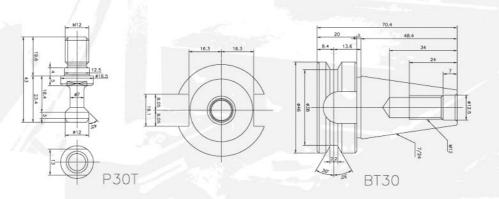
Face Milling/ \$45C Max. cutting deepth

40 mm

Specififcations

Item	Unit	VT 500
Stroke		
X axis	mm	500
Y axis	mm	400
Z axis	mm	330
Spindle nose to table	mm	150-480
Table		
Dimension	mm	650x400
Max. table load	kg	250
T-slot (Width *Pitch*Number)	mm	14x125x3
Spindle		
Spindle type		Direct-drive
Spindle speed	rpm	12000/ BT30 (STD)
		20000/ BT30 (OPT)
Spindle motor (cont./ 30 min rated)	kW	3.7/5.5
Feed		
Rapid traverse X/Y/Z (MITSUBISHI SPEC.)	m/min	48/48/48
Cutting feed rate	mm/min	1-10000
3-axis motor (X/Y/Z)	kW	1.5/1.5/2.2
ATC unit		
Magazine type		Tool turret
Magazine capacity	pcs	14/21(opt)
Tool changing time (T to T)	Sec.	1.5
Max. tool diameter	mm	80
Max. tool length	mm	150
Max. tool weight	kg	3
Accuracy		
Positioning accuracy	mm	0.006/300
Repeatability	mm	0.004
Space & system requirement		
Pneumatic pressure	kgf/cm ²	6
Space Dimension (WxLxH)	mm	3150x2400x2410
Machine weight	kgs	2500

^{*}Specifications are subject to change without notice.



BT30 - Tool Shank & Pull Stud

Standard Accessories

- MITSUBISHI M80-B
- 12,000 rpm, BT30, Direct drive
- 14 tools, BT30, Turret
- Spindle air curtain
- Cutting coolant system
- Flush coolant system
- Manual pulse generator (MPG)
- Full splash guard
- Working lamp
- Indication lamp
- Tool package
- Heat exchanger in electrical cabinet (Fan type)
- Leveling blocks and bolts
- One-year machine warranty
- Controller warranty (24 months from shipping date)

Optional Accessories

- MITSUBISHI M80-A
- FANUC OIMF
- 20,000 rpm, BT30, Direct drive
- 21 tools, BT30, Turret type
- Long column (Spindle nose to table 250~580mm)
- Spindle oil cooler
- Full enclosed splash guard
- Chip conveyor
- Workpiece measurement system
- Tool length measurement system
- 4th axis rotary table
- CNC Tilting rotary table (4+1 axis)
- Transformer