



### MAPLE TECHNOLOGY CO., LTD.

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Maple





### MAPLE-MT

**CNC TAPPING CENTER** 

# **MT-Series**

High rigidity, high dynamic performance structural design Complete closed machine case, direct spindle 20000RPM High speed high accuracy controller

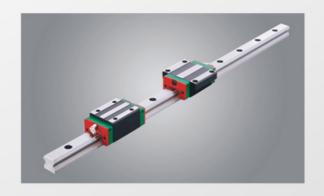
### High Rigidity, High Accuracy Structural Design

- Main structural castings made of high-quality meehanite, structural stability, ensure permanent quality.
- Casting is analyzed by finite element analysis computer calculation, reasonable structure strength and the collocation of stiffening rib, providing high mechanical rigidity.
- Using linear guide way to support three axis, able to handle heavy load, rapid feed rate, ensure positioning accuracy.
- Base-width and column for the machine is the box-type structure, saddle lengthened and widened, designed to fully support heavy load, solid structure also ensures the processing of load carrying capacity.
- Spindle head with ribs reinforcing structure, the spindle head and column contact length ratio is set on perfection to provide solid support of the spindle.



### **Ball Linear Guide Way**

MT-series uses Taiwan Hiwin HG-series linear guide way, it is four single-arc tooth type contact linear guide way, at the same time optimal structural design is supported for heavy-load precision linear guide way, compared to other linear guide way it enhance the load capacity, rigidity and high precision requirements.



#### **Worktable Cover**

MT-series three axis uses complete cover, prevents the chips that will fall into the three axis transmission, effectively protecting the transmission system, ensure accuracy so that the displacement axis can move fast, smooth and steady.

### **Chip System**

MT-series base using the back type chip conveyor design, with large tilt angle drainage channel for the chips, can quickly washed chips to avoid the accumulation of debris inside, removes the chips more smoothly and more quickly into the storage tank to provide the best chip removal, also speed up the backflow of cutting fluid.





### **Mechanical Unclamping Design**

High-speed, reliable tool exchange equipment provides smooth tool change operation, increased bearing diameter to help increase rigidity, reduce needle rotation speed, using high-precision bearings to improve machine Stability.

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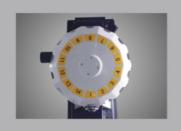
## Spindle 🕣

reduces heat deflection, The design of the thermal coupling, the spindle uses oil temperature control, improve the precision and life of the spindle. Motor and spindle drive directly, not having the belt or gear drive noise, vibration and other issues, and also improve the efficiency of the motor.



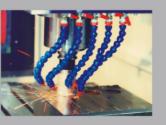
Fast and stable tool exchange structure, ables the exchange time greatly shortened. Servo motor control enables the tool magazine rotation movements more smoothly, each tool changing time is about 1.8 seconds.











Drilling

**Tapping** 

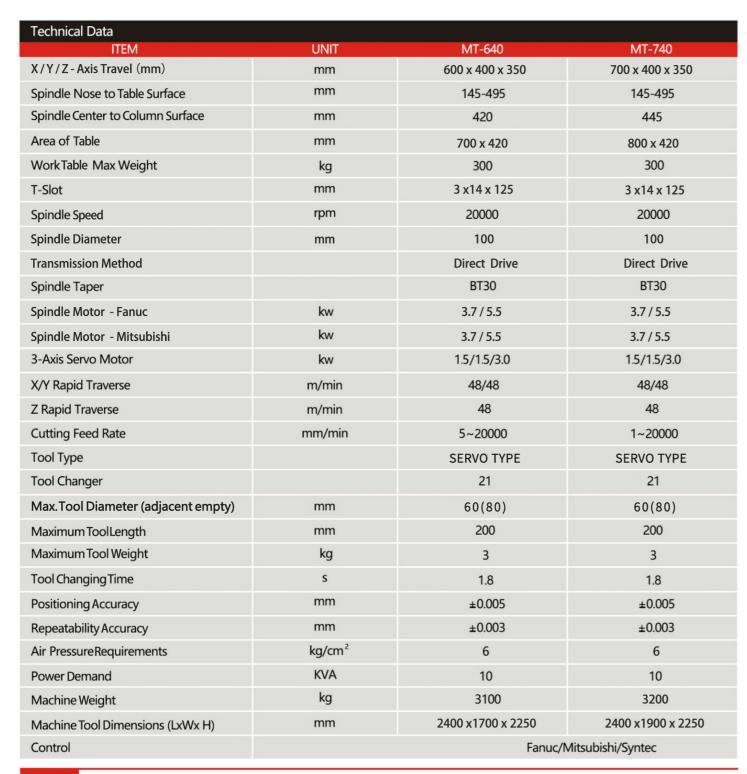
Milling

## Machining Ability 🕣

MT-series is normally used for electronic information industry, textile accessories, auto parts, hydraulic parts, defense industry, etc.

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### MT

### **Standard Features**

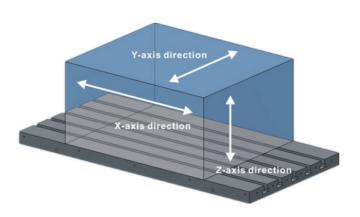
- Tool changer 0 External Hand Wheel O Air Gun O Spindle Coolant
- O Tool Box O Auto Lubrication System O Complete Telescoping Covers
- Rigid Tapping
- O Explosion-proof Fluorescent Light
- O Heat Exchanger for Cabinet O Direct Spindle O Auto Power Shut Off System
- o RJ45 Interface O LED 3 Color Alarm Light
- O Air Blast
- O Coolant System
- O Leveling Bolts and Leveling Blocks
- O Operation and Maintenance Manuals

### **Optional Equipment**

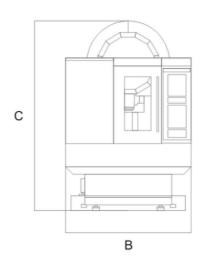
- Water Gun
- O 4th Axis
- Stabilizer O Scale
- O Part Probe
  - o CTS
  - O Tool Setter

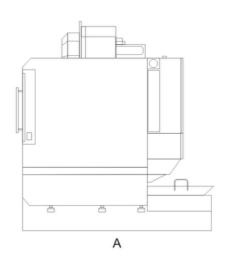
### **Working Range**

	MT-640	MT-740
X-Axis Travel (MM)	600	700
Y-Axis Travel (MM)	400	400
Z-Axis Travel (MM)	350	350
Worktable (MM)	700X420	800X420
Max Weight on Worktable (KG)	300	300



### MT-series External Dimension





MT-SERIES	MT-640	MT-740
Dimension (A)	2400 MM	2400 MM
Dimension (B)	1700 MM	1900 MM
Dimension (C)	2250 MM	2250 MM

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