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You can enter Maple website if
your phone has a QR software

MT TAPPING CENTER

MT-SERIES TAPPING CENTER BY MAPLE



MT SERIES



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

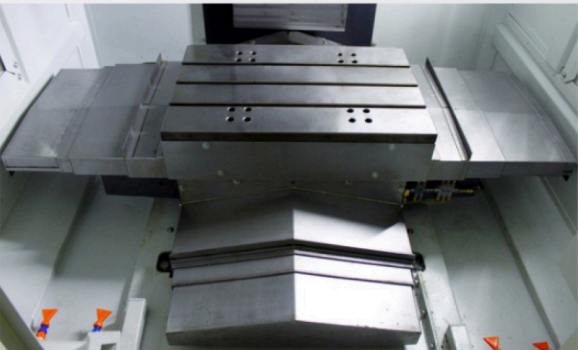
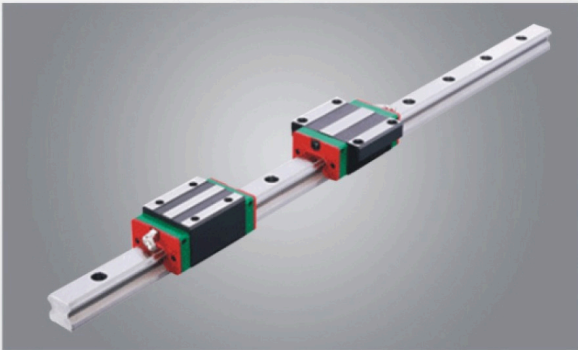
High Rigidity, High Accuracy Structural Design

- 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.

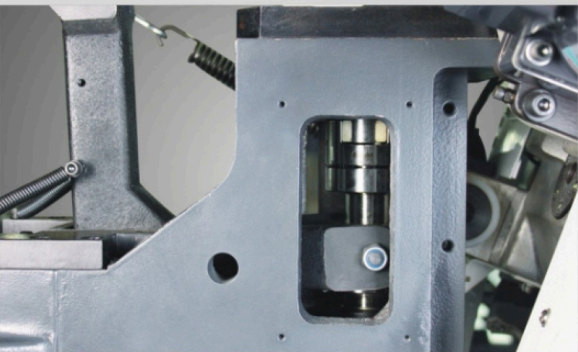
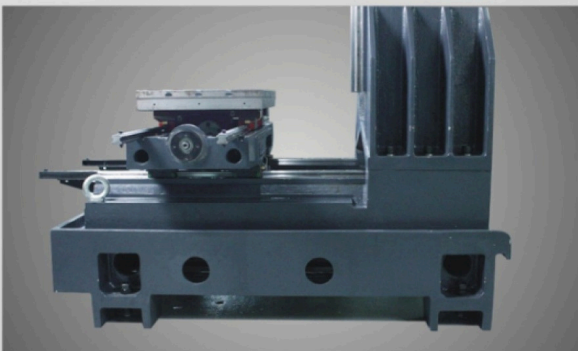


Worktable Cover

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.

MT-Series Tapping Center

Fast and Accurate
Efficiency and Environmental

Product Features

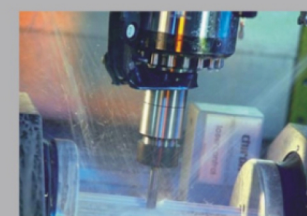
Spindle ➡

MT-series Direct spindle with heat insulation design 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.



Tool Changer Feature ➡

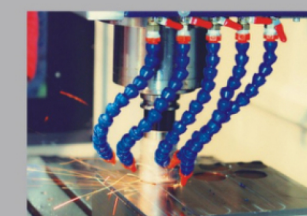
Fast and stable tool exchange structure, ables the exchange time greatly shortened. Servo motor control enables the tool magazine rotation movements more smoothly, each tool changing time is about 1.8 seconds.



Drilling



Tapping



Milling

Machining Ability ➡

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

Technical Data			
ITEM	UNIT	MT-640	MT-740
X / Y / Z - Axis Travel (mm)	mm	600 x 400 x 350	700 x 400 x 350
Spindle Nose to Table Surface	mm	145-495	145-495
Spindle Center to Column Surface	mm	445	445
Area of Table	mm	700 x 420	800 x 420
WorkTable Max Weight	kg	300	300
T-Slot	mm	3 x14 x 125	3 x14 x 125
Spindle Speed	rpm	20000	20000
Spindle Diameter	mm	100	100
Transmission Method		Direct Drive	Direct Drive
Spindle Taper		BT30	BT30
Spindle Motor - Fanuc	kw	3.7 / 5.5	3.7 / 5.5
Spindle Motor - Mitsubishi	kw	3.7 / 5.5	3.7 / 5.5
3-Axis Servo Motor	kw	1.5/1.5/3.0	1.5/1.5/3.0
X/Y Rapid Traverse	m/min	48/48	48/48
Z Rapid Traverse	m/min	48	48
Cutting Feed Rate	mm/min	1-20000	1-20000
Tool Type		SERVO TYPE	SERVO TYPE
Tool Changer		21	21
Max.Tool Diameter (adjacent empty)	mm	60 (80)	60 (80)
Maximum ToolLength	mm	200	200
Maximum Tool Weight	kw	3	3
Tool ChangingTime	s	1.8	1.8
Positioning Accuracy	mm	±0.005	±0.005
Repeatability Accuracy	mm	±0.003	±0.003
Air PressureRequirements	kg/cm ²	6	6
Power Demand	KVA	10	10
Machine Weight	kg	3100	3200
Machine Tool Dimensions (LxWx H)	mm	2400 x1700 x 2250	2400 x1900 x 2250
Control	Fanuc/Mitsubishi/Syntec		

MT

Standard Features

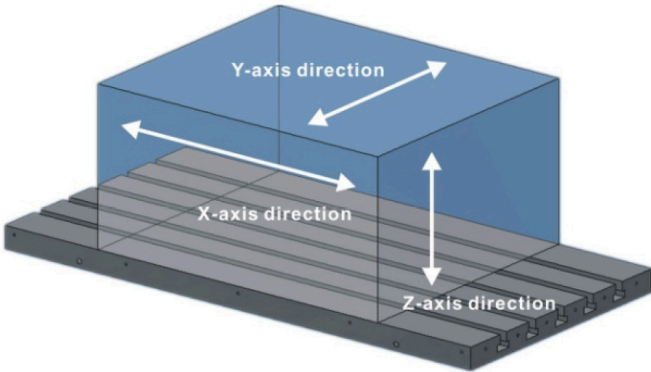
- Tool changer
 - Air Gun
 - Tool Box
 - Transformer
 - Rigid Tapping
 - Chip System
 - Direct Spindle
- External Hand Wheel
 - Spindle Coolant
 - Auto Lubrication System
 - Complete Telescoping Covers
 - Explosion-proof Fluorescent Light
 - Heat Exchanger for Cabinet
 - Auto Power Shut Off System
-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

Optional Equipment

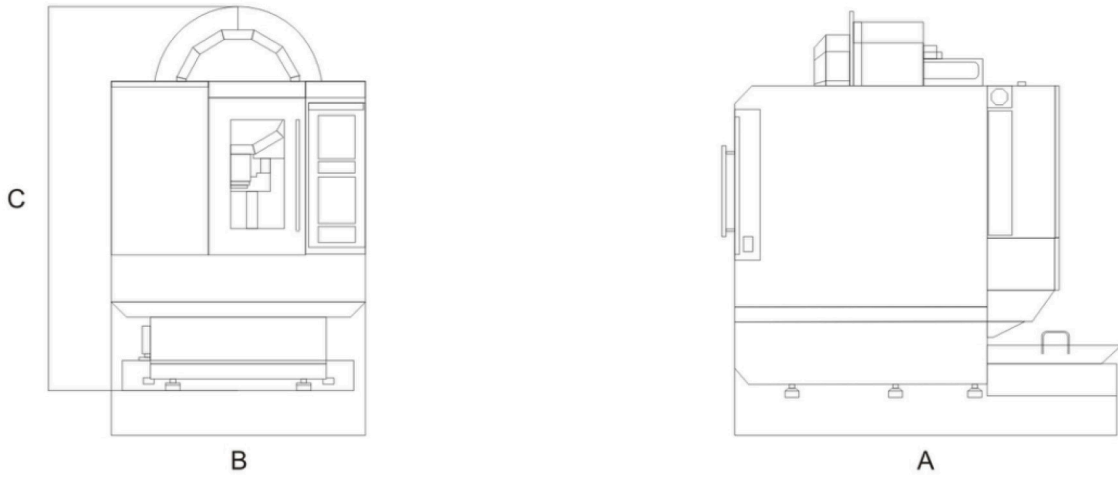
- Water Gun
- 4th Axis
- Stabilizer
- Scale
- Part Probe
- CTS
- Tool Setter

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