







- ► TMV-720A is designed for high speed machining. The high speed 40 taper spindle with integrated spindle cooler allows long-term accurate machining. (Coolant through spindle optional).
- ► Long-neck type spindle decreases the interference range with 4th axis table. Furthermore, high rigidity machine structure ensures excellent positioning accuracy du- ring high speed and precision machining.
- ► Arm type rapid automatic tool changer shortens the tool changing time and increases productivity.

Machine structure

Stroke (X/Y/Z axis): 720/480/530 mm Wide Span Column Rapid traverse (X/Y/Z axis): 1,140 mm 48/48/48 m/min Chip-proof telescopic cover Ball screw & rigid linear guide way Servo motor Finite Element Analysis - FEA FEA is employed in the machine design to ensure structural integrity. The result is high rigidity, high accuracy, and excellent machine productivity

Ball screw preloaded

The preloaded ball screw reduces thermal distortion and ensures the machine's continuous performance and precision.



Chip removal design

Excellent dual-track chip disposal design with flushing system improves chip flow. The optional chip augers speed up the chip disposal and decrease the cleaning time.







Ergonomic design

The ergonomic design facilitates the operator in monitoring the production process during

program editing. It reduces mistakes and improves the working efficiency.





Spindle

Belt type

Standard

Belt type : **8,000** rpm

Optional

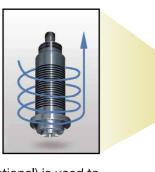
Belt type : 10,000 rpm

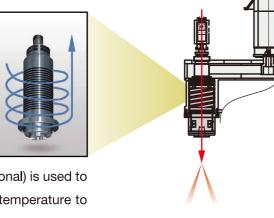


Belt type spindle (optional coolant through spindle)

• Spindle is connected with motor by belt







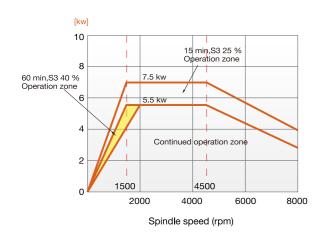
Spindle cooler (optional) is used to control the spindle temperature to match the machine temperature. This prevents the spindle from overheat, thus minimizing thermal distortion.

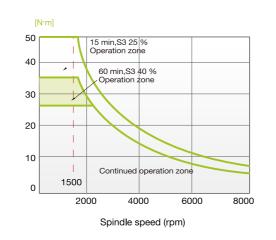




The coolant through spindle is available. It improves machining speed and extends the tool life. Moreover, it allows efficient metal chip removal during deep hole machining and improves the workpieces' precision.

Spindle output and torque chart Standard-8000 rpm





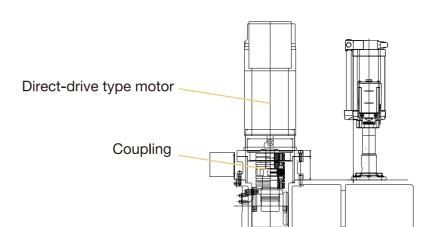
Direct-drive type (optional) Optional Direct-drive type:

10,000 rpm

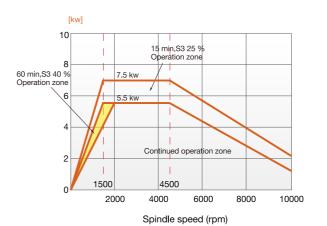
Spindle cooler

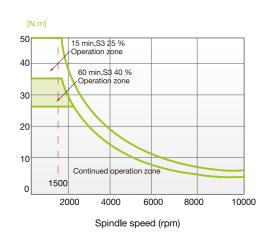
Spindle nose

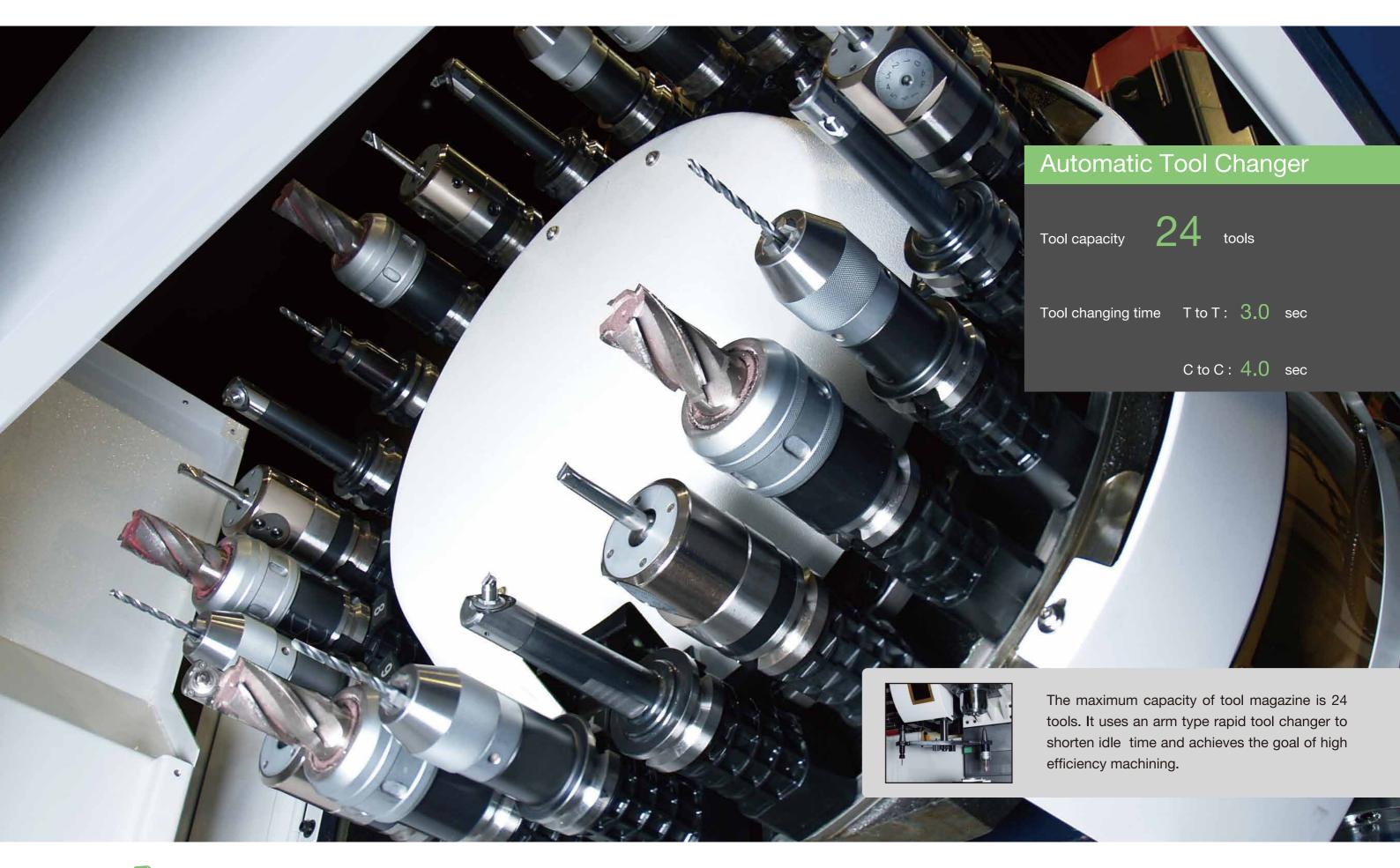
BT-40



Spindle output and torque chart Optional-10000 rpm







Table

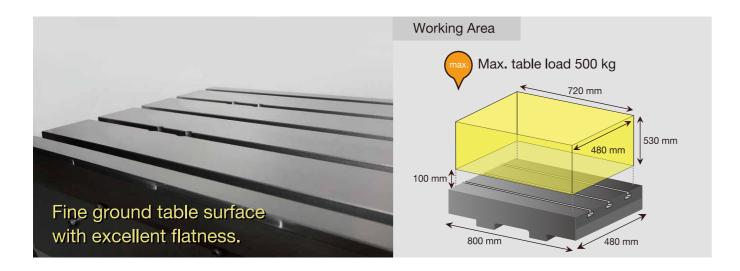
Table size 800×480 mm

Working area (L×W×H) 720×480×530 mm Maximum table load

500 kg

Table height from floor

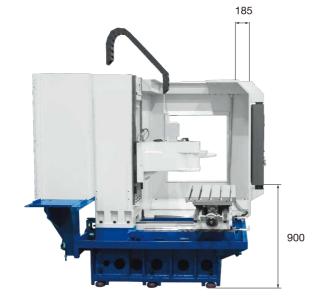
900 mm



Ergonomic operation

Friendly machine design provides the operator with an ergonomic operation environment by door opening width 800 mm. The height of table from floor is 900 mm and the minimum distance from the table to the front guard is only 185 mm.





Precision testing

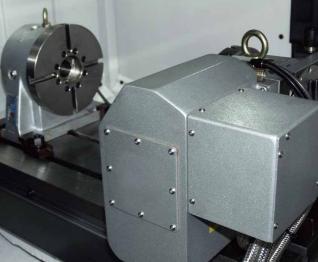




For assuring assembly precision, Tongtai not only sets internal controls through standard operating procedures, but also has established self-checking lists for each machine assembly. Engineers can follow the lists to enforce setting and testing tasks for approving the quality of products.

Customization (Optional)





With an excellent R&D team, Tongtai is able to offer customization with optional solutions.

Examples of application







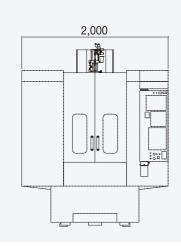


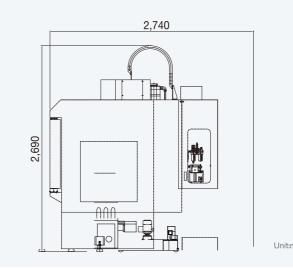


Item	Specification	Unit	TMV-720A
Table	Table size (L×W)	mm	800×480
	Max. table load	kg	500
	Table height from floor	mm	900
	T-slot (size × No.)	mm	18×5
Spindle	Spindle taper		7/24 Taper No.40
	Spindle speed	rpm	8,000 (opt. 10,000)
Stroke	X/Y/Z axis stroke	mm	720/480/530
	Spindle nose to table	mm	100-630
Feed	X/Y/Z axis rapid traverse	m/min	48/48/48
	Cutting feedrate	mm/min	1-10,000
ATC	Tool shank		BT40
	Tool capacity	рс	24
	Max. tool diameter	mm	Ø80
	Max. tool diameter (w/o adjacent tool)	mm	Ø125
	Max. tool lenght	mm	250
	Max. tool weight	kg	7
Motors	Spindle motor (50% ED)	kw	7.5/5.5
	X/Y/Z axis servo motor	kw	1.8/1.8/3.0
	Coolant motor	kw	0.55
Controller			FANUC 0i-M (opt. 31i)
Machine size	L×W×H	mm	2,740×2,000×2,690
	Weight	kg	4,400

O Specifications may be changed without prior notice

Machine dimensions







Coolant through spindle



Tool breakage detector



Tri-color warning light



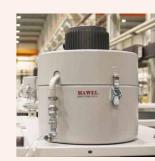
A/C for electrical cabinet



Spindle cooler



Oil skimmer



Oil mist collector



Transformer





Chip conveyor



Coolant gun



Sub-operation box



Your best partner for metal-cutting total solutions



Tongtai emphasizes providing an excellent investment strategy to our clients with high cost-performance ratio. We give our customers supreme machine performance with reasonable prices.

Our management team and the members of all five of its departments will ceaselessly search for innovative solutions for your processing needs. All your sales and after sales concerns will be satisfied! That means, when you purchase our machines, the service never stops!

Our company slogan "Trust & Technology" is always backed with passion for our product improvements and responsibility for our service to you.



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