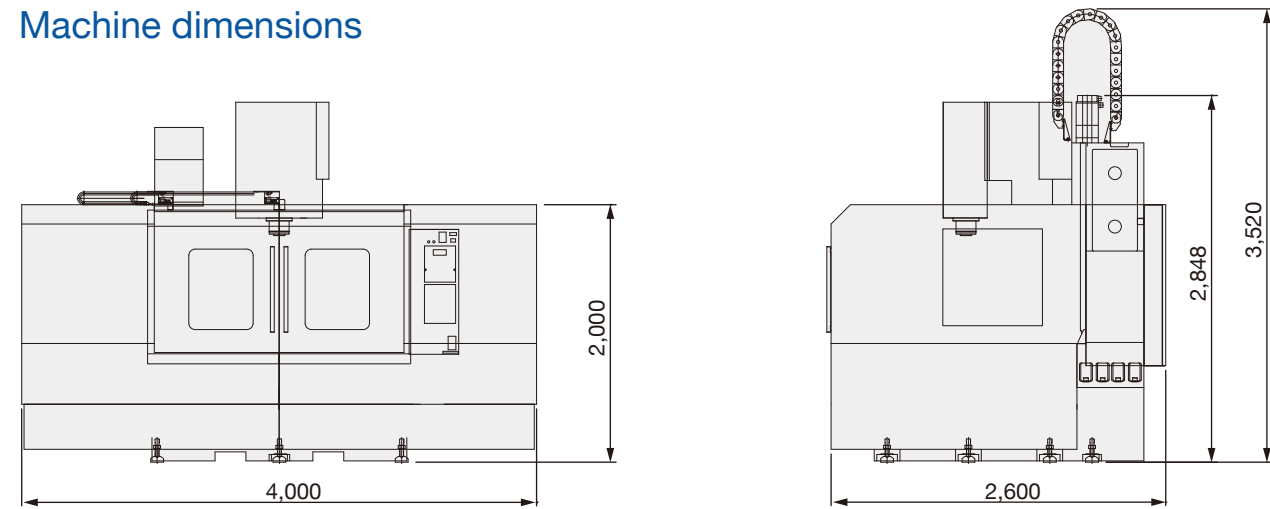


## Machine dimensions

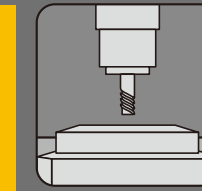


Unit : mm

## Specification

Item	Specification	Unit	TMV-1500A (#40)	TMV-1500A (#50)
Table	Table size (LxW)	mm	1,600x762	
	Max.table load	kg	1,869	
	Table height from floor	mm	950	
	T-slot (sizexNo.)	mm	18x7	
Spindle	Spindle taper		7/24 Taper No.40	7/24 Taper No.50
	Spindle speed		Belt-driven type 8,000 (opt. 10,000)	Belt-driven type 6,000 (opt. 3,500)
Stroke	X/Y/Z axis stroke	mm	1,525/762/710	
	Spindle nose to table	mm	100~810	
Feed	X/Y/Z axis rapid traverse	m/min	18/18/18	
	Cutting feedrate	mm/min	1~10,000	
ATC	Tool shank		BT-40	BT-50 (Opt. CAT-50)
	Tool capacity	pc	24	24 (Opt. 32)
	Max. tool diameter	mm	Ø89	Ø110
	Max. tool diameter (w/o adjacent tool)	mm	Ø125	Ø200
	Max. tool length	mm	250	300
	Max. tool weight	kg	7	15
Motor	Spindle motor	kW	9/7.5(Opt. 15/11)	11/15
	X/Y/Z servo motor	kW	3.0/4.0/7.0	
	Coolant motor	kW	0.37	
Controller	FANUC Oi-M			
Machine size	WxLxH	mm	4,000x3,600x3,520	
	Weight	kg	13,000	13,500

©Specifications may be changed without prior notice



# TMV-1500A

## Vertical Machining Center



### Tongtai Tongtai Machine & Tool Co., Ltd.

Headquarters

No.3, Luke 3rd Rd., Luzhu Dist., Kaohsiung City 82151, Taiwan  
 TEL : 886-7-9761588 FAX : 886-7-9761589  
 www.tongtai.com.tw

Taoyuan Branch TEL : 886-3-4551399 FAX : 886-3-4559730  
 Taichung Branch TEL : 886-4-23589600 FAX : 886-4-23589993  
 Japan Branch TEL : 81-4-71438355 FAX : 81-4-71438360  
 Europe Branch TEL : 31-161-454639 FAX : 31-161-454768  
 Romania Branch TEL : 40-264-415273 FAX : 40-264-403983  
 Malaysia Branch TEL : 603-78597113 FAX : 603-78597115  
 Vietnam Branch TEL : 84-4-62766090  
 Thailand Branch TEL : 66-2-7443440 FAX : 66-2-3986518  
 Indonesia Office TEL : 62-21-45850875 FAX : 62-21-45850876

Affiliates

**Honor Seiki Co., Ltd.** TEL : 886-7-9759888 www.honorseiki.com.tw  
**Asia Pacific Elite Corp.** TEL : 886-4-23589313 www.apecnc.com  
**Quick-Tech Machinery Co., Ltd** TEL : 886-6-3841155 www.quicktech.com.tw  
**PCI-SCHEM - rue Copernic** TEL : 33-4-77426161 www.pci.fr  
**ANGER Machining GmbH** TEL : 43-7229-71041-0 FAX : 43-7229-71041-199 www.anger-machining.com



China Operation Center

**Shuzhou Tong-yu Machine & Tool Co., Ltd.**

No.555 Huahong Rd., Economic Development Zone of Wujiang,  
 Suzhou City, Jiangsu Province, China  
 TEL : 86-512-63430168

FAX : 86-512-63431622  
 E-mail : sales@tong-yu.com.cn

Wuhan Branch TEL : 86-27-59409109 FAX : 86-27-59409110  
 Chongqing Branch TEL : 86-23-67865925 FAX : 86-23-67867717  
 Guangdong Branch TEL : 86-769-81158108 FAX : 86-755-27222115  
 Tianjin Branch TEL : 86-22-24417640 FAX : 86-22-24416738  
 Shanghai Office TEL : 86-21-24208138 FAX : 86-21-34073262  
 Shenyang Office TEL : 86-24-24142968 FAX : 86-24-24115782

# TMV-1500A

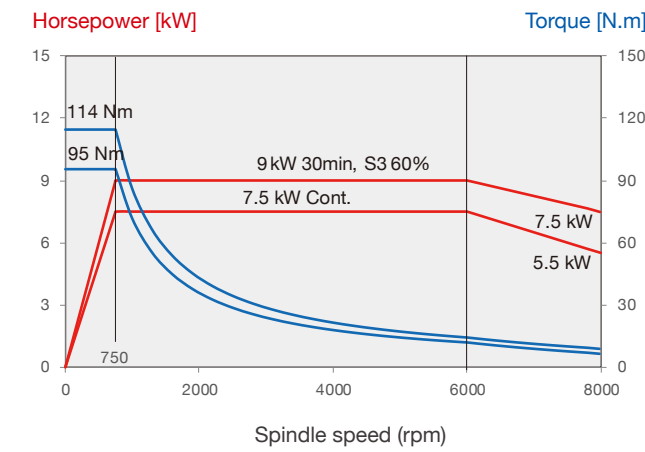
## Spindle

Available in both 40 and 50 tapers, the grease lubricated cartridge spindles are liquid cooled. The spindle cooler reduces thermal deformation and extends spindle life. Standard 8,000 rpm belt-driven 40 taper spindle can optionally be changed to 10,000 rpm for high speed machining. Furthermore, BT-50 6,000 rpm, 3,500 rpm belt-driven spindle are also available for heavy cutting.

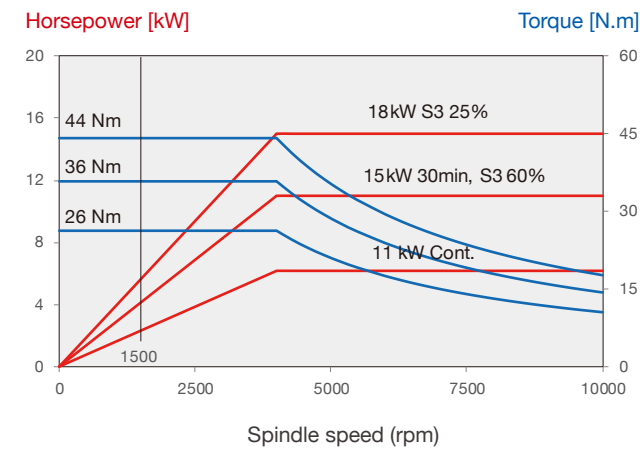
	40 taper		50 taper	
	8,000 rpm	10,000 rpm	6,000 rpm	3,500 rpm
Max. speed	8,000 rpm	10,000 rpm	6,000 rpm	3,500 rpm
Horse power	9/7.5 kW	18/15/11 kW	15/11 kW	15/11 kW
Torque	114/95 Nm	44/36/26 Nm	191/140 Nm	239/175 Nm



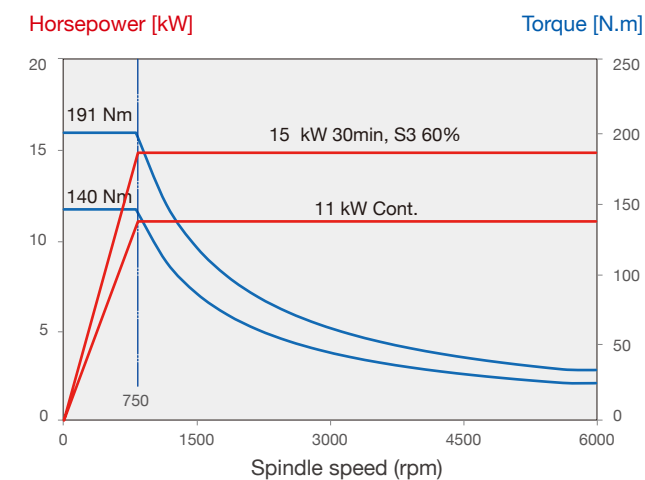
### Belt-driven 8,000 rpm (40 taper) (Standard)



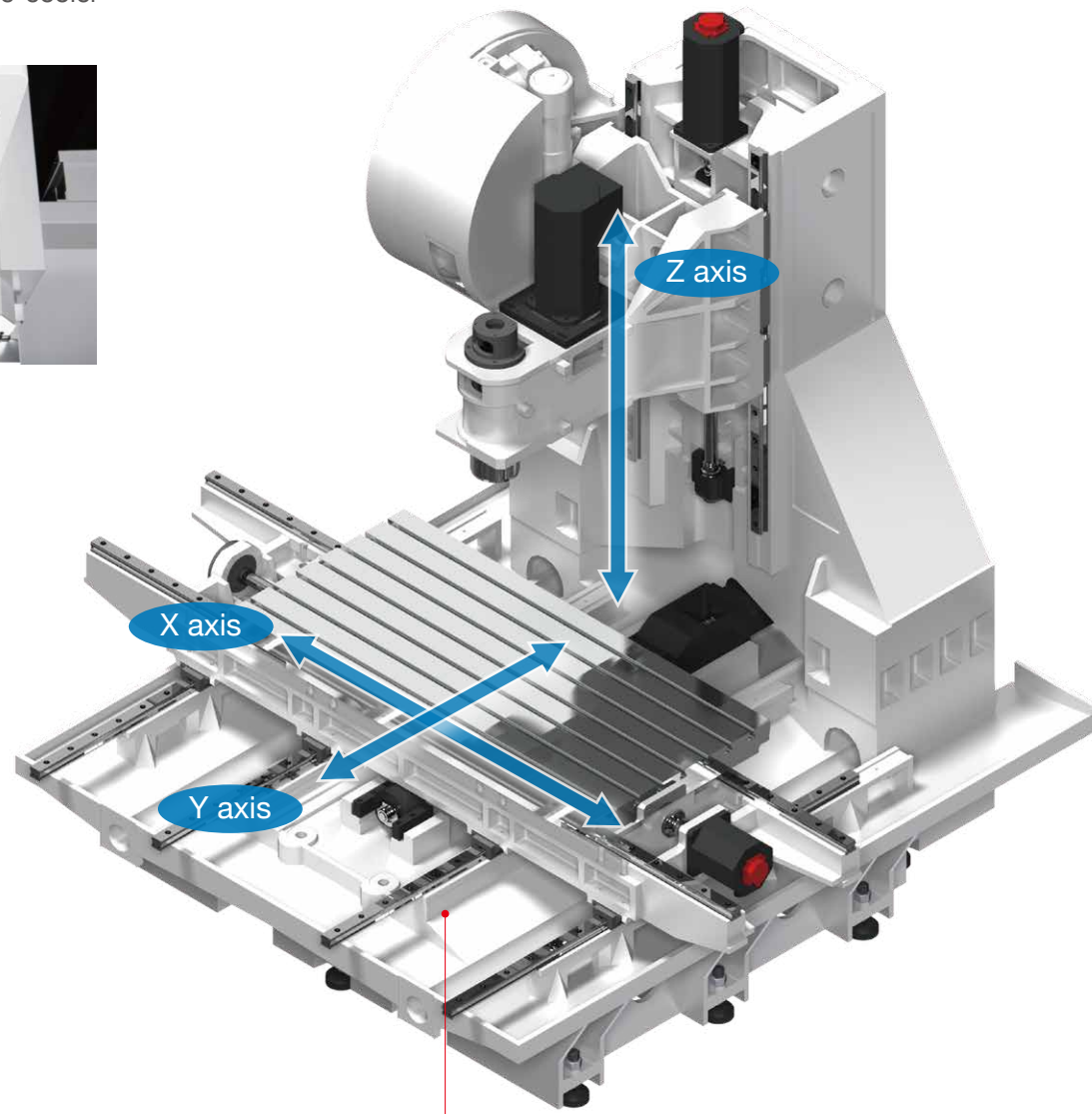
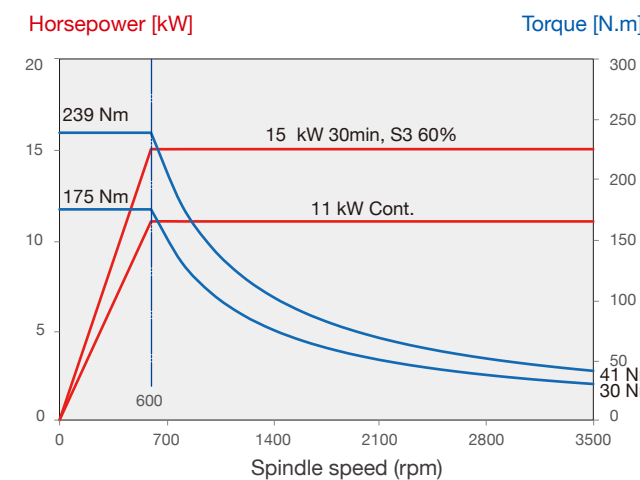
### Belt-driven 10,000 rpm (40 taper) (Optional)



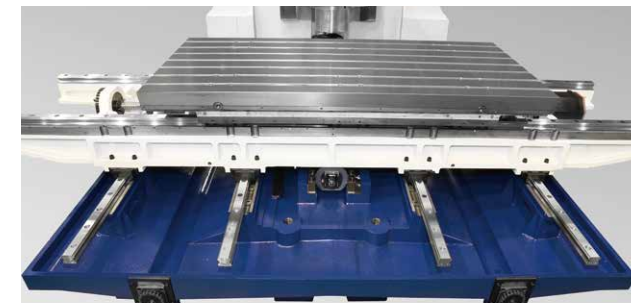
### Belt-driven 6,000 rpm (50 taper) (Optional)



### Belt-driven 3,500 rpm (50 taper) (Optional)



Casting components on this machine are made of high quality cast iron, and through finite element analysis (FEA), the static and dynamic rigidity can be ensured.



The Y axis employs four guideways to offer superior support of the X axis saddle and best accuracy.

## Stroke

X/Y/Z axis 1,525/762/710 m/min

## Rapid traverse

X/Y/Z axis 18/18/18 m/min

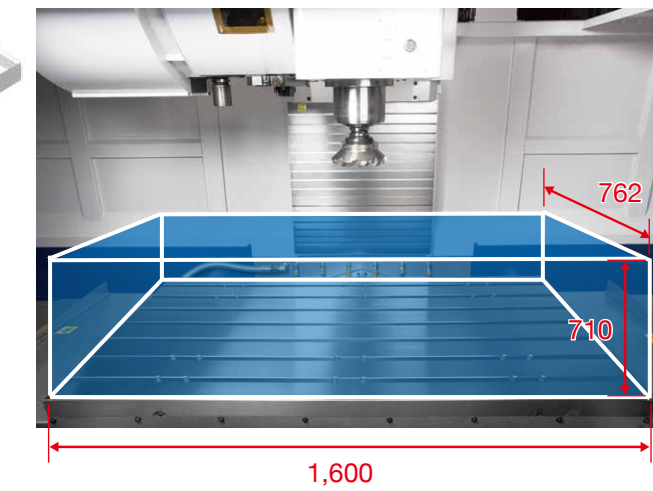
## ATC

The cam-type tool changer has higher accuracy and lower noise. In addition, the stable tool clamping can ensure spindle accuracy and expand bearing life.

	40 taper	50 taper
T to T	3.0 sec	5.1 sec
Tool capacity	24 tools 30 tools (Optional)	24 tools 32 tools (Optional)

## Working area

Table size 1,600 mm x 762 mm  
Max. load 1,869 kg



## Chip disposal

Equipped with two chip augers and flushing system, even heavy chip loads are evacuated efficiently.



## Operation

With the door opened, the top side is wide open, providing a wide space for loading work.



The distance and height of table are very ergonomic. It provides the operator a very comfortable and convenient working area.



## Maintenance

The wide door opening provides a spacious area for the operator during operation and processing maintenance.

Door opening width 1,664 mm



Pneumatic units, lubricant pump, and some maintenance items are located on the rear side of machine, with easy access.



## Standard/Optional accessories

		Standard	Optional
Tool Shank	BT-40	●	
	CAT-40		○
	BT-50		○
	CAT-50		○
Coolant through	15 bar		○
	spindle pump	40 bar	○
	70 bar		○
Cooling system	Spindle coolant system		○
	Hydraulic temperature control system		○
	Coolant temperature control system		○
	Air conditioner for electrical cabinet		○
Chip conveyor	Two chip augers	●	
	Bed flushing pump		●
	Scraper type conveyor		○
	Magnetic scraper type conveyor		○
	Hinge type conveyor		○

		Standard	Optional	
Lubrication system	General lubrication system	●		
	LHL integrated lubrication system		○	
Positioning accuracy system	Three axes linear scale 5μ resolution		○	
	Three axes linear scale 3μ resolution		○	
	Three axes magnetic scale 5μ resolution		○	
Tool measuring system	Tongtai made touch type tool breakage detector		○	
	Laser type tool measurement		○	
4th axis rotatory table			○	
Others	Workpiece measuring device		○	
	Machining air blow		○	
	Air gun		○	
	Coolant gun		○	
	Oil skimmer		○	
	Oil mist collector		○	
	Automatic door		○	
	Controller	FANUC 0i-M	●	
		FANUC 31i-M		○