

## Specification · Std. / Opt. accessories

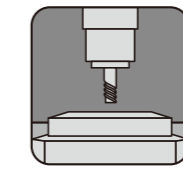
### Specification

Item	Specification	Unit	TMV-920A	TMV-1100A
Table	Table size	mm	1,000x530	1,200x600
	Max. loading capacity	kg	800	
	Table height from floor	mm	900	
	T-slot (size×No.)	mm	18x5	
Spindle	Spindle taper		7/24 Taper No.40 (50)	
	Spindle speed	rpm	BT-40 : 8,000 (10,000) BT-50 : 3,500 (6,000)	
Travel	X/Y/Z axis travel	mm	920/530/530	1,100/600/530
	Distance from table surface to spindle gage line	mm	100~630	
Feed	X/Y/Z axis rapid traverse	m/min	30/30/24	
	Cutting feedrate	mm/min	1~10,000	
ATC	Tool shank	m/min	BT-40/BT-50	
	Tool capacity	pc	24(30)	
	Max. tool diameter	mm	BT-40 : Ø89 BT-50 : Ø110	
	Max. tool diameter(w/o adjacent tool)	mm	BT-40 : Ø125 BT-50 : Ø200	
	Max. tool length	mm	BT-40 : 250 BT-50 : 300	
Motor	Spindle motor	kw	BT-40 : 9/7.5 (15/11) BT-50 : 15/11	
	X/Y/Z axis servo motor	kw	BT-40 : 3.0/3.0/7.0 BT-50 : 3.0/3.0/7.0	
Machine size	Width×depth×height	mm	2,260x3,050x2,920	2,800x3,050x2,920
	Weight	kg	BT-40 : 7,700 BT-50 : 8,600	BT-40 : 7,700 BT-50 : 8,000
Controller			Fanuc Oi-MF	

©Specifications may be changed without prior notice

### Std. / Opt. accessories

Standard Accessories	Option Accessories
<ul style="list-style-type: none"> <li>● Air Blow Unit</li> <li>● 24 Tools ATC Magazine</li> <li>● Rigid Tapping</li> <li>● Working Light</li> <li>● Spindle Speed 8000 rpm (7.5/5.5 kw)</li> <li>● Portable Manual Pulse Generator</li> <li>● Coolant Unit</li> <li>● Lubrication Unit</li> <li>● Door Interlock Unit</li> <li>● Workpiece Counter</li> <li>● Spindle Load Meter</li> </ul>	<ul style="list-style-type: none"> <li>● Linear Scale (HEIDENHAIN)</li> <li>● Spindle Speed 5000/7000/10000 rpm (BT40)</li> <li>● 3500/6000 rpm (BT50)</li> <li>● High Torque of Spindle Motor (9/7.5 kw 15/11 kw)</li> <li>● Coolant Through Spindle (A Type / B Type)</li> <li>● Complete Splash Guard</li> <li>● Bed Flushing</li> <li>● Water Gun</li> <li>● Air Gun</li> <li>● Auto door</li> <li>● Chain Type Chip Conveyor</li> <li>● Scraper Type Chip Conveyor</li> <li>● Magnetic Type Chip Conveyor</li> <li>● Hydraulic Unit</li> <li>● Oil Skimmer</li> <li>● Oil Mist Collector</li> <li>● Transformer</li> <li>● Voltage Stabilizer</li> <li>● 3-Color Warning Light</li> <li>● Air Conditioner for Electrical Cabinet</li> <li>● M Code(8 Sets)</li> <li>● Automatic Power Off</li> <li>● Big Dia. Tool Function.</li> <li>● Automatic Tool Life Management</li> <li>● Automatic Tool Length Detector</li> <li>● Automatic Tool Breakage Detector</li> <li>● Sub Operation Box</li> </ul>



Vertical Machining Center

# TMV-920A/1100A



**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 : +81-047-712-0835	FAX : +81-047-712-0870
Europe Branch	TEL : +31-161-454639	
Malaysia Branch	TEL : +603-78597113	FAX : +603-78597115
Vietnam Branch	TEL : +84-24-62766090	
Thailand Branch	TEL : +66-2-3164708-10	FAX : +66-2-3164711
Indonesia Office	TEL : +62-21-45850875	FAX : +62-21-45850876

Members of TTGroup

**Honor Seiki Co., Ltd.**  
TEL : 886-7-9759888  
FAX : 886-7-9759999  
www.honorseiki.com

**Asia Pacific Elite Corp.**  
TEL : 886-4-23589313  
FAX : 886-4-23588913  
www.apecnc.com

**Quick-Tech Machinery Co., Ltd.**  
TEL : 886-6-3841155  
FAX : 886-6-3841177  
www.quicktech.com.tw

**PCI-SCEMM**  
TEL : 33-4-77426161  
FAX : 33-4-77426023  
www.pci.fr

**ANGER Machining GmbH**  
TEL : 43-7229-71041-0  
FAX : 43-7229-71041-199  
www.anger-machining.com

MEMBER OF  
**TT GROUP**



Official Website Global Network

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  
www.tongtai.com.tw/cn

Wuhan Branch	TEL : +86-27-84586587	
Chongqing Branch	TEL : +86-23-67865925	FAX : +86-23-67867717
Guandong Branch	TEL : +86-769-81158198	FAX : +86-769-81158108
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

MEMBER OF

**TT GROUP**

www.tongtai.com.tw

# TMV-920A/1100A

Special structure design, High rigidity and excellent vibration absorbing to make sure the machining accuracy and stability of machine.

## TMV-920A

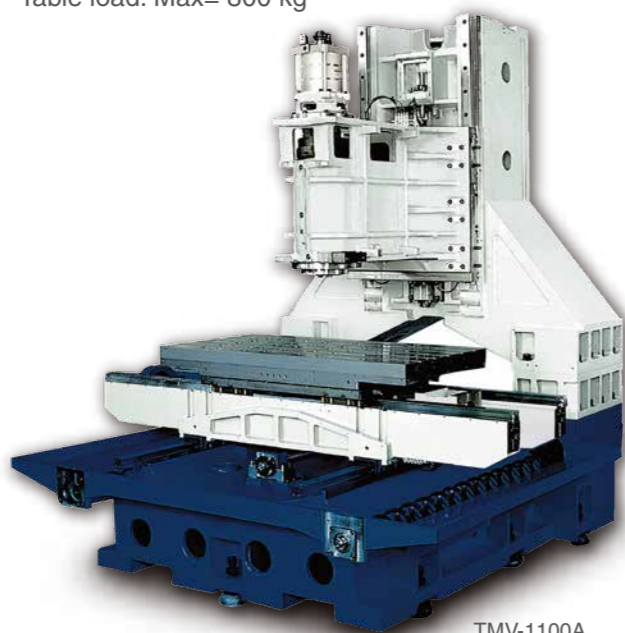
X/Y/Z axis travel: 920/530/530 mm  
 X/Y/Z rapid speed: 30/30/24 m/min  
 Table load: Max= 800 kg



TMV-920A

## TMV-1100A

X/Y/Z axis travel: 1,100/600/530 mm  
 X/Y/Z rapid speed: 30/30/24 m/min  
 Table load: Max= 800 kg



TMV-1100A



Excellent double chip screw mechanical design.



Rigid Coupling  
 To make sure the trace feeding and non-backlash accuracy.



Ball screw  
 We make pre-tensions on ball screws to maintain the positioning precision under the influence of thermal expansion effect on ball screws and meanwhile to decrease the bearing loads on ball screws.



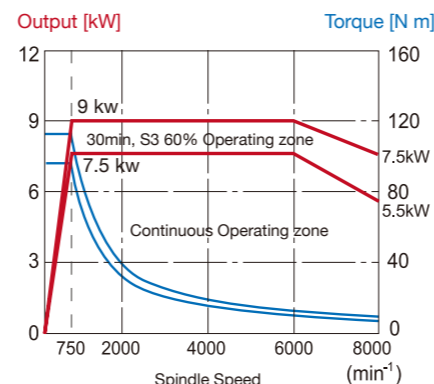
Swivel operation panel  
 Controller FANUC 0iM(Standard)  
 FANUC 31i-M(Optional)

# Spindle Output and Torque Chart

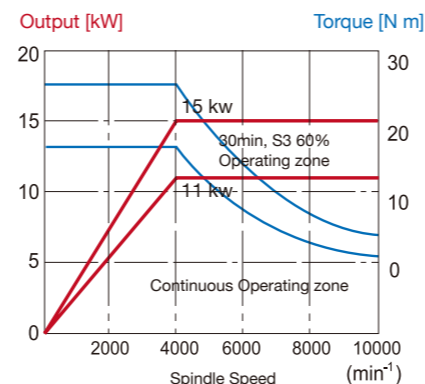
## Spindle Output and Torque Chart

### BT40 Series

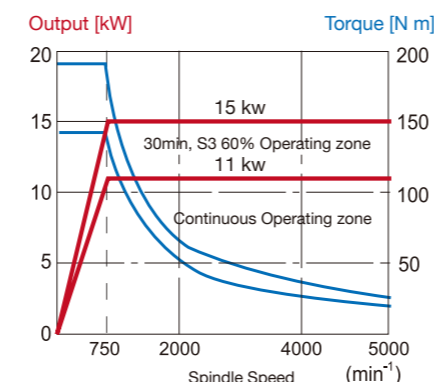
Standard-8000rpm αP15



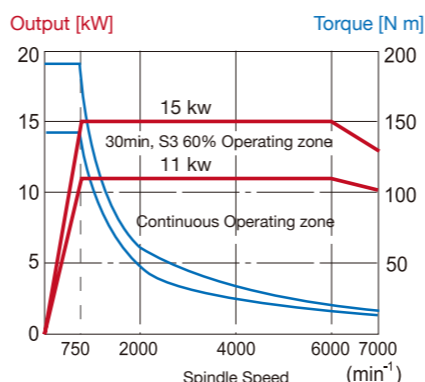
Option-10000rpm α12



Option-5000rpm αP22

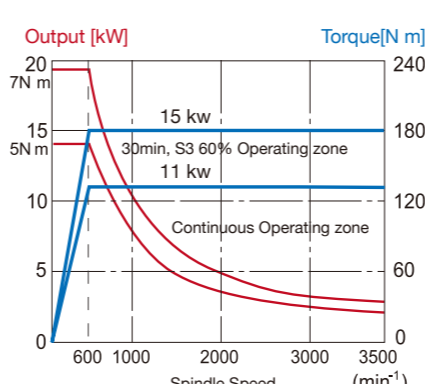


Option-7000rpm αP22

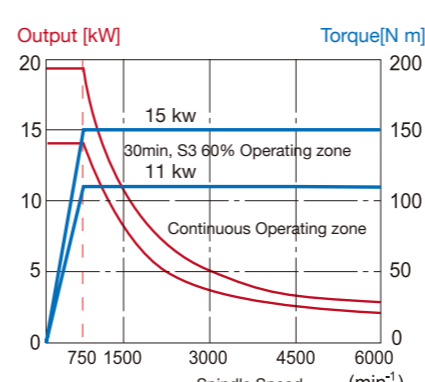


### BT50 Series

Standard-3500rpm αP22



Standard-6000rpm αP22



## Excellent cutting ability

Material for cutting : S45C

	Face Milling Ø80x5 t	End Milling Ø40x2	Drilling Ø30 HSS	Tapping HSS
Cutting Capacity (cc/min)	219	48	-	-
Width×Depth (mm)	65×4.5	30×20	-	M24×P3.0
Spindle Speed (min <sup>-1</sup> )	750	200	265	265
Cutting Feedrate (mm/min)	750	80	0.2mm/rev	-

●Spindle motor : FANUC αP15 ●Spindle speed : 8000RPM/BT40

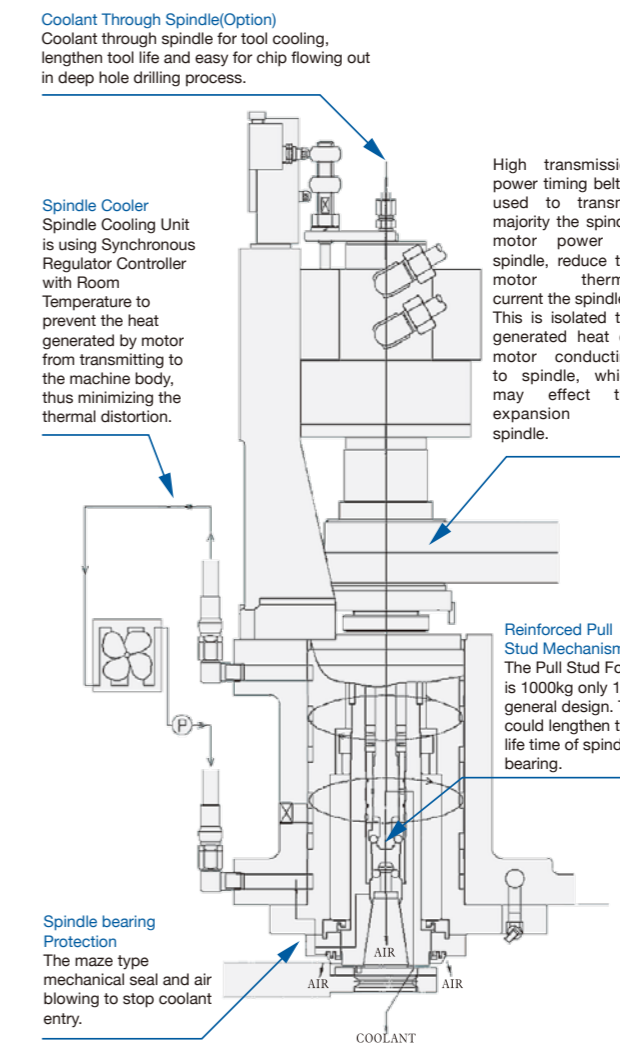
## Turning Key

The arrangement for production equipment.  
 The design and production of jig, fixture and tool.



# Spindle structure description · Numerical Control System · Machine Dimensions

## Spindle structure description

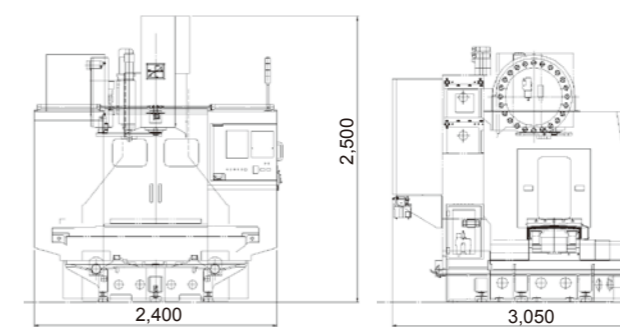


## Numerical Control System

Item	Specification
Control axis	4 Axes
Parts program storage length	640 M
Setting/display unit	8.4" color LCD/MDI
Graphic function	Standard
Servo waveform display	Standard
HRV control	Standard
Inch/metric conversion	Standard
Stored stroke check	Standard
Stored pitch error compensation	Standard
Manual handle feed	Standard
Positioning	G00
Single positioning	G60
Linear interpolation	G01
Circular interpolation	G02/G03
Dwell	G04
Cylindrical interpolation	Standard
Threading, synchronous cutting	Standard
Advanced preview control	Standard
Max. programmable dimensions	8 digits
Program number	04
Polar coordinate command	digits
Workpiece coordinate system	G54-G59
Addition of workpiece coordinate system pair	48 pairs
Programmable data input	G10
Custom macro B	Standard
Canned cycles for drilling	Standard
Automatic corner override	Standard
Automatic corner deceleration	Standard
Scaling	Standard
Coordinate system rotation	Standard
Programmable mirror image	Standard
Rigid tapping	Standard
Tool function	Standard
Tool offset pairs	6 digits - 400 sets
Tool offset memory C	Standard
Tool life management	Standard
Number of registerable programs	400
Background editing	Standard
Parts count display	Standard
Multi-language display	English / Japan / German / French / Italian / Chinese / Spanish / Korean

## Machine Dimensions

### TMV-920A



### TMV-1100A

