

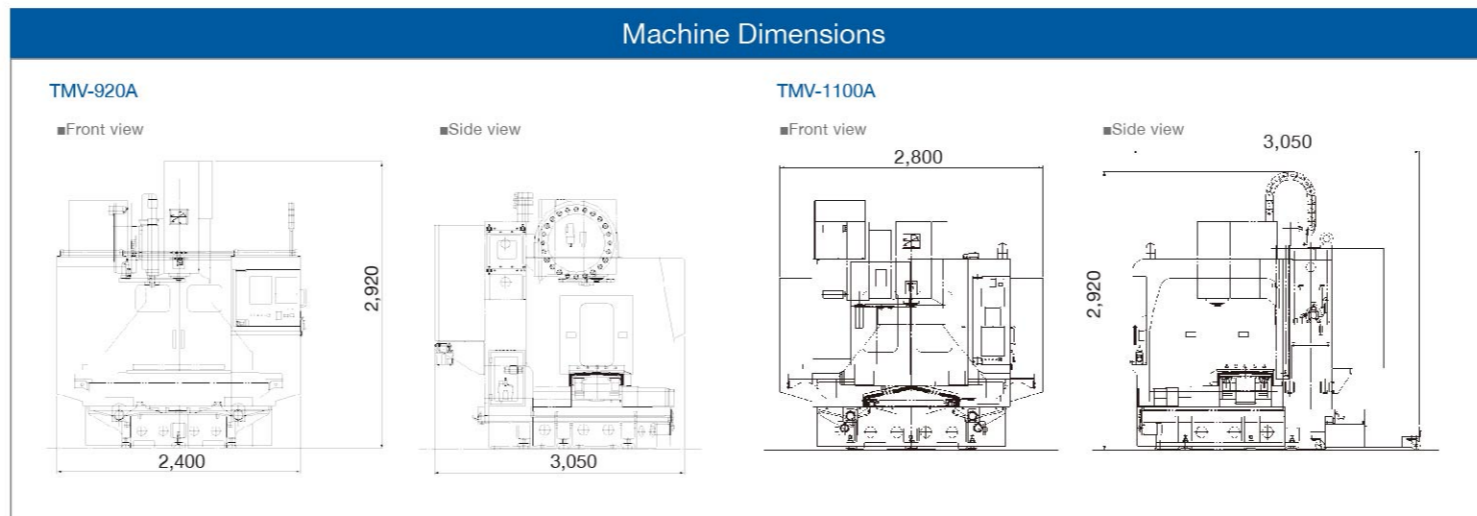
Item	Specification	Unit	TMV-920A		TMV-1100A	
			BT40	BT50	BT40	BT50
Table	Working Area (LxW)	mm	1,000x600		1,200x600	
	Max. Load Capacity	kg	800		800	
	Table Height from Floor	mm	900		900	
	T-Slots (Size×No.)	mm	18×5		18×5	
Spindle	Spindle Nose		7/24 No.40	7/24 No.50	7/24 No.40	7/24 No.50
	Spindle Speed	rpm	8,000 (Opt. 5,000/7,000/10,000)	3500 (Opt. 6,000)	8,000 (Opt. 5,000/7,000/10,000)	3,500 (Opt. 6,000)
Travel	X/Y/Z Axis Stroke	mm	920/530/530		1,100/600/530	
	Spindle Nose to Table	mm	100-630		100-630	
Feed	X/Y/Z Rapid Traverse	m/min	30/30/24		30/30/24	
	Cutting Feedrate	mm/min	1-10,000		1-10,000	
Atc	Tool Capacity	pc	24(Opt. 30)	24	24(Opt. 30)	24
	Max. Tool Diameter	mm	Ø89	Ø110	Ø89	Ø110
	Max. Tool Diameter(w/o Adjacent Tool)	mm	Ø125	Ø200	Ø125	Ø200
	Max. Tool Length	mm	250	250	250	250
	Max. Tool Weight	kg	7	15	7	15
Motor	Spindle Motor(50%ED)	kw	9/7.5 (Opt.15/11)	15/11	9/7.5 (Opt.15/11)	15/11
	X/Y/Z Servo Motor	kw	3.0/3.0/4.0 (Opt. 3.0/3.0/7.0)	3.0/3.0/7.0	3.0/3.0/4.0 (Opt. 3.0/3.0/7.0)	3.0/3.0/7.0
	Coolant Motor	kw	0.37×1		0.37×1	
Machine	LxWxH	mm	2,400x3,050x2,920		2,800x3,050x2,920	
	Weight	kg	7,000	7,500	7,500	8,800

©Specifications may be changed without prior notice

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

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Item	Specification
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



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2014.07/28 Design by Tongtai Machine & Tool Co., Ltd.



ISO 9001 ISO 14001 CE
 A Worldwide Tradition of Quality Products and Customer Service

Vertical Machining Center

TMV-920A/1100A

High ■Quality ■Precision ■Efficiency ■Economy



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 Stroke:
920/530/530mm
X/Y/Z Rapid Speed:
30/30/24m/min
Table Load:
MAX=800kg

TMV-1100A

X/Y/Z Axis Stroke:
1100/600/530mm
X/Y/Z Rapid Speed:
30/30/24m/min
Table Load:
MAX=800kg



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



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



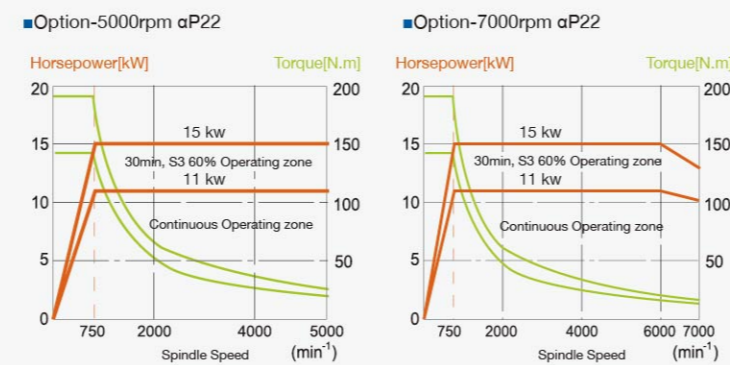
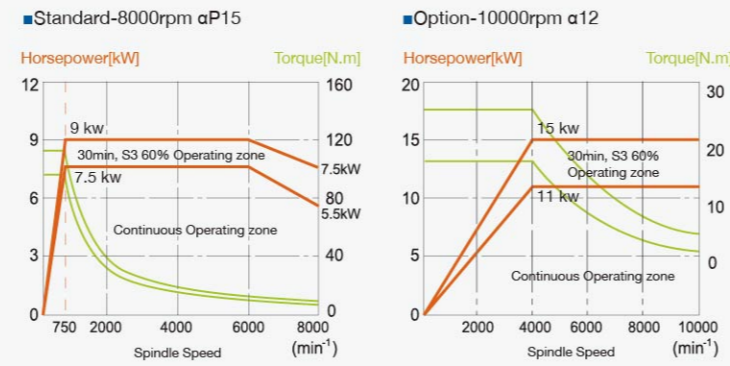
- Ball screw
Ball screw adopts pre-load mechanism to avoid the heat-extension while machining



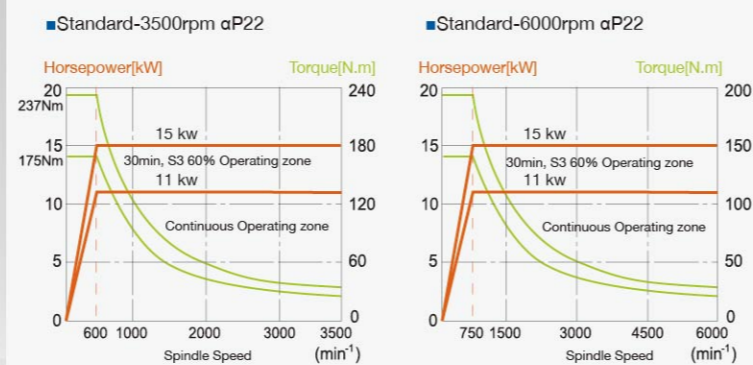
- Excellent double chip screw mechanical design.

Spindle Output and Torque Chart

BT40 Series



BT50 Series



Excellent cutting ability

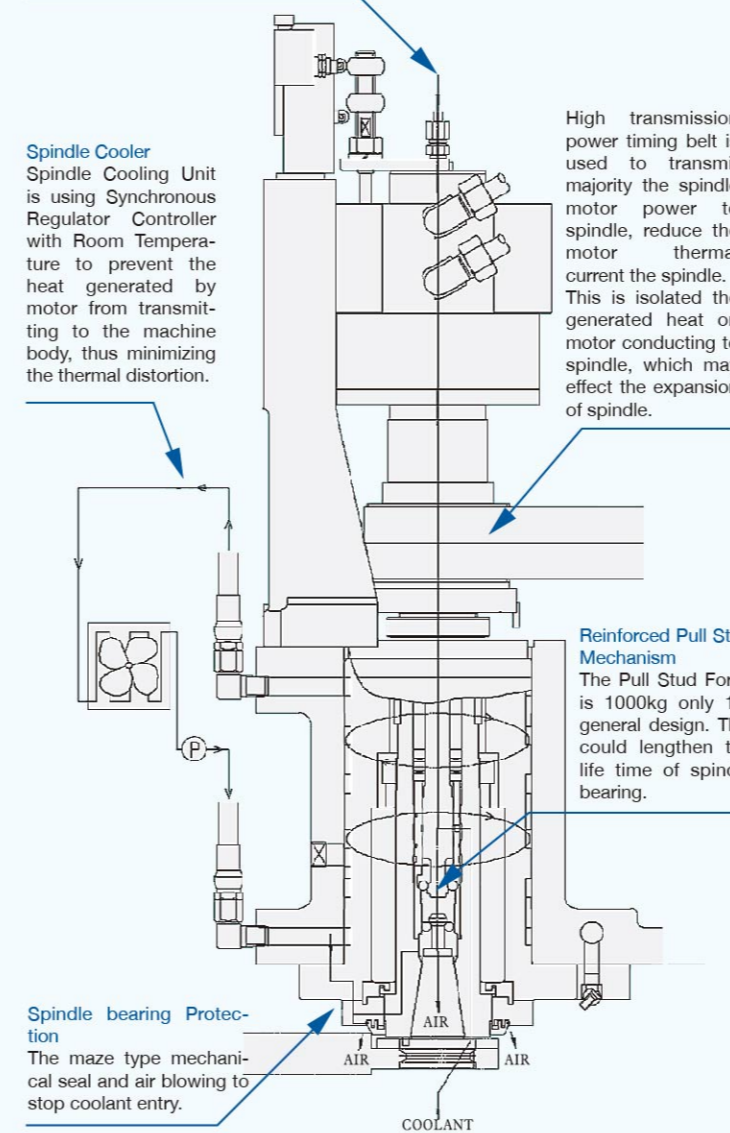
Material for cutting : S45C

	Face Milling Ø80×5 Insert	End Milling Ø40×2 Insert	Drilling Ø30 HSS	Tapping HSS
Cutting Capacity (cc/min)	219	48	-	M24×P3.0
Width×Depth (mm)	65×4.5	30×20	-	-
Spindle Speed (min ⁻¹)	750	200	265	265
Cutting Feedrate (mm/min)	750	80	0.2mm/rev	-

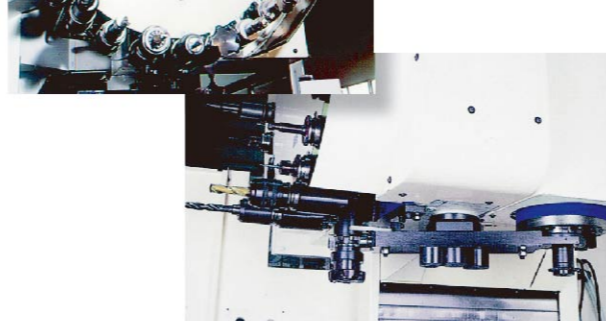
• Spindle motor : FANUC αP15 • Spindle speed : 8000RPM/BT40

Spindle structure description

Coolant Through Spindle(Optional)
Coolant through spindle for tool cooling, lengthen tool life and easy for chip flowing out in deep hole drilling process.



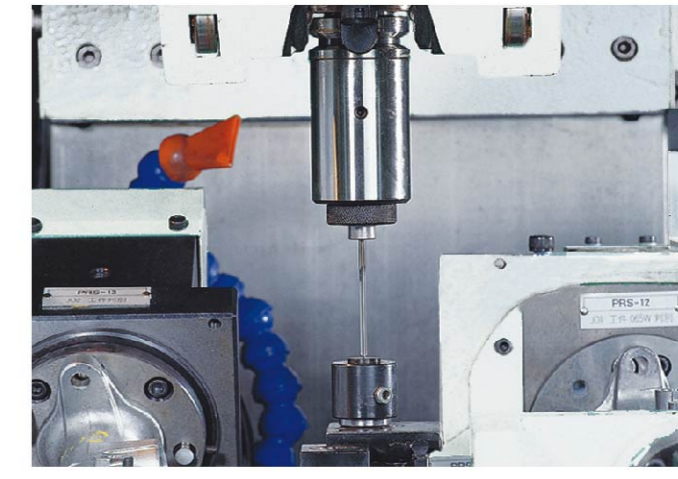
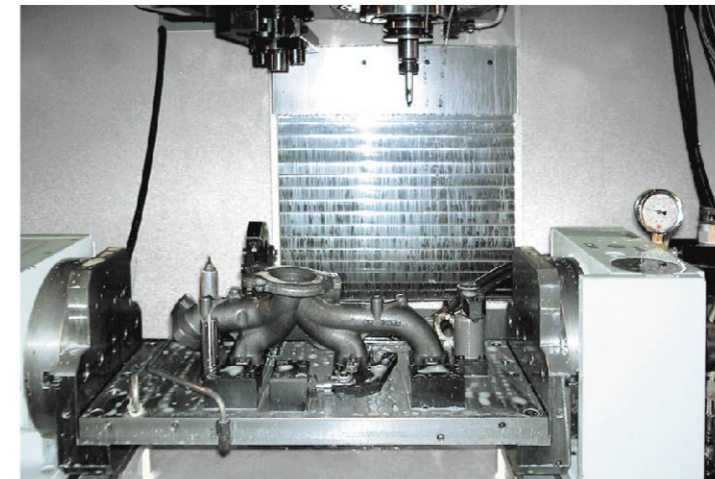
- Rapid tool change, high capacity tool magazine. The maximum tool diameter 89mm (BT40)/110mm(BT50).
- ATC Tool magazine Standard 24 pieces(BT40/BT50).



- Rapid tool change function to reduce the air cutting time of tool change.
- T to T BT40 2.8 sec/BT50 4.5 sec

Turning Key

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



Option Accessories



- Coolant through spindle 15/35kg/cm²
High pressure pump with filter bag



- Oil Mist Collector



- Oil Skimmer



- Auto Door



- Transformer



- Spindle Coolant



- Chip Conveyor



- Chip Conveyor



- High/Low Coolant Level Detection



- Controller

0-iM Standard

31i-M Option