

TCV400 and TCV400 APC

CNC Vertical Machining Center

A travelling column machine with six variants

- 1 G
- 60 m/ min
- 12,000 rpm spindle
- 180° pallet changer



Bharat Fritz Werner Ltd.



Innovations • Partnerships • Values

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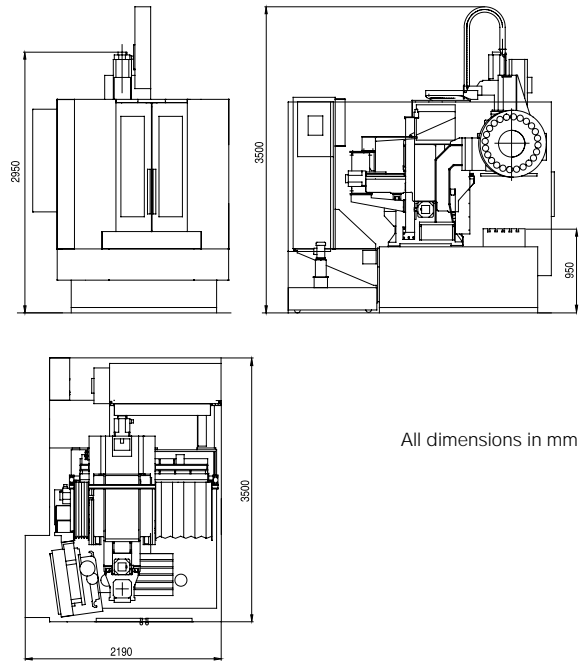
Machine Layout

TCV400 and TCV400 APC

CNC Vertical Machining Center

Vikrant – This high dynamic VMC has been created for high volume auto/ aero component machining industry. Designed for high speed, heavy duty machining, **Vikrant** is fit for transfer line applications. TPM features along with isolation of chip and coolant zone ensure long and trouble free service from **Vikrant**. The **Vikrant** can be delivered in nine possible configurations.

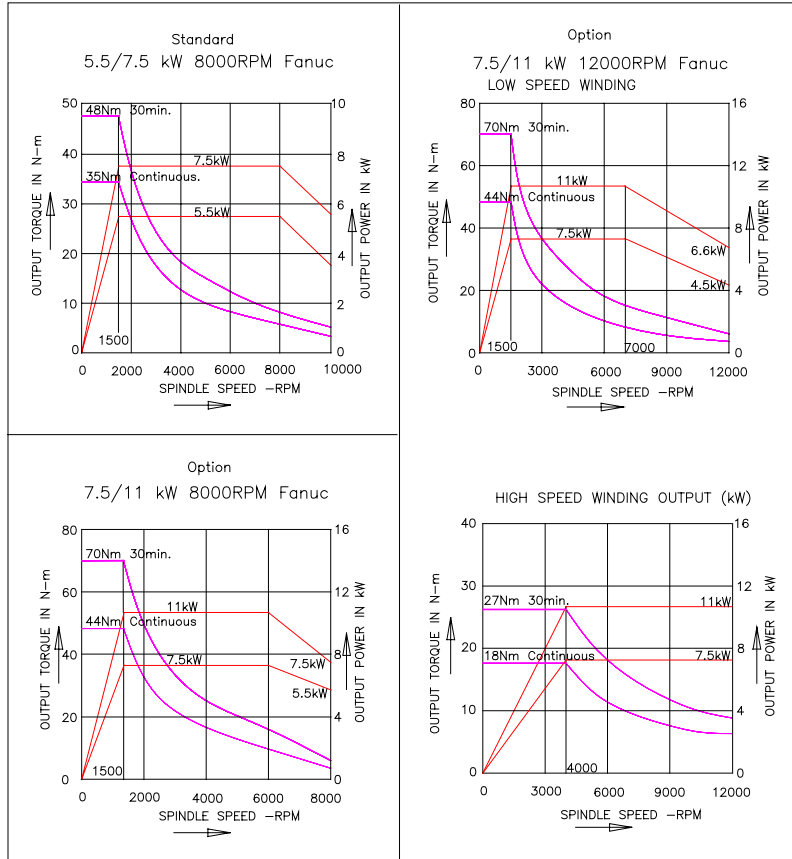
- Suitable for ferrous and non-ferrous materials
- Spindle speed up to 12,000 rpm
- Rapid feed rate of 60 m/ min
- 1G acceleration
- Fast tool change 1.8 sec
- Compact front end width
- Efficient chip disposal
- TPM friendly
- Environment friendly



All dimensions in mm



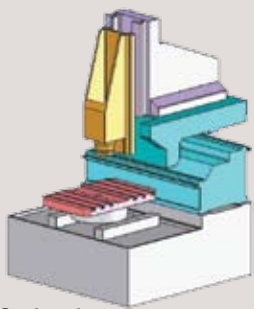
Spindle Speed - Torque Diagram



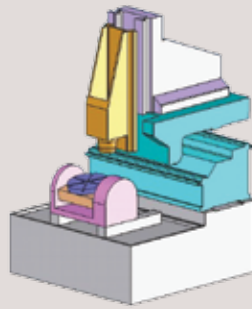
CNC SYSTEM FEATURES	Fanuc Oi	Siemens 802D SL Pro
LCD color monitor	8.4"	10.4"
Part program memory	256 kB	3024 kB
Ethernet connectivity	O	S
AI contour control (AICC)	STD	-
Manual guide Oi/ graphical support for canned cycle and contour programming	O	S
Number of programs on CNC memory	400	99
Alarm help function	S	S
High speed skip function/ measuring stage 1 probe	S	S
Spindle orientation	S	S
Rigid tapping	S	S
Rigid tap retraction	S	S
Linear interpolation	S	S
Circular interpolation	S	S
Simultaneous interpolation (3 axes)	S	S
Helical interpolation	S	S
Canned cycle/ process oriented cycle for drilling	S	S
Look ahead blocks	40	100
Part program edit with mark, copy, delete	S	S
Number of tool offset	400	128
Alarm history display	S	S
Operation history	S	-
Pocket calculator facility	-	S
RS-232C interface port	1&2 S	1 S
DNC operation thru	RS232C S	RS232C/ Ethernet S
Battery backup for memory	Required	Not required
Fixed MPG	S	S
Mobile MPG	O	O
Measuring cycles for milling	-	S
Spline programming (COMPCAD and COMPCURV create a spline out of several linear blocks for die mould application)	-	S
Memory card (PCMCIA) input/ output	O	O
Data server	S	-
Saving and restoring by memory card	S	S
Maintenance information screen	S	-
Periodic maintenance screen	S	-
Custom macro B	S	-
Programming with user variables	-	S
Machine alarm diagnosis	O	-
Tool life management	S	-
Run hour and part count display	S	S

S - Standard feature; O - Optional feature '-' Not available

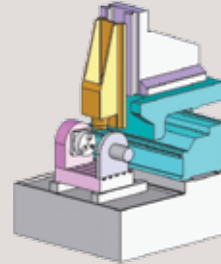
TCV400 Machine Variants



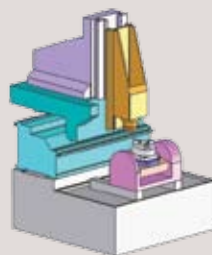
Option 1
Standard machine with APC



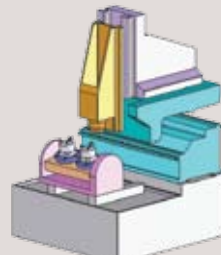
Option 2
Standard machine with cradle type rotary table 4th Axis



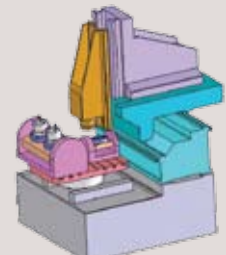
Option 3
Standard machine with rotary table and tailstock



Option 4
Standard machine with chuck on cradle type rotary table



Option 5
Standard machine with two chuck on cradle type rotary table



Option 6
Standard machine with type chuck on index table

