**Optimal Solutions for the Future** 

DOOSAN

# **PUMA VTR1216** Series

Large vertical turning center with RAM head spindle

# PUMA VTR1216 series

PUMA VTR1216 PUMA VTR1216M

ver. EN 160502 SU

# **Basic Structure**

The PUMA VTR1216 Series having 50 ~ 55 inches of chuck size are ram type vertical turning center, designed with thermallysymmetric bed and column to ensure stabilized heavycutting performance for an extended time in wide machining area.

# **Designed for High Durability and Machining Stability**

With high-rigidity wide column and box guideway structure and high-hardness Cr-Mo ram, the PUMA VTR1216 Series offers heavy cutting performance and high stiffness. Smooth chip disposal is realized with the all in one bed providing chip disposal process on both sides combined with dual chip conveyors.



# **Machining Area**

The largest machining area of the class guarantees highest-level productivity allowing high flexibility when machining large works.

### Wide machining area and large capacity

(Ø63.0 inch)

1250<sup>mm</sup>

(49.2 inch)

Max. table load

(1763.7 lb)

8000<sup>kg</sup>

The PUMA VTR1216 Series offers Full X/Z axes stroke with the largest machining area of the same class, enabling, for example, simultaneous measuring and cutting of inner and outer surfaces with one time setting.



Item	Unit	X axis	Z axis	W axis
Travel	mm (inch)	-700 / +1000 (-27.6 / +39.4)	1200 (47.2)	800 (31.5)
Rapid traverse rate	m/min (ipm)	12 (472.4)	10 (393.7)	-



Provided with a standard, large capacity cooler, the perfectly thermallysymmetric spindle offers heavy and precision machining performance on the basis of long-term thermal stability.

# High Productivity Spindle with Rigid Structure

With ideal combination of large diameter thrust bearings and center-supported roll bearings, the spindle guarantees both heavy and precision machining. Servo-controlled and driven with twin helical gears, the C-axis table realizes stable milling, drilling and tapping capability.



# **Tool magazine**

Servo type tool magazine offers high speed and high accuracy for the tool selection. Tool positions



# PUMA VTR1216M

**15**ea (Turning 7 / Milling 8) **33**ea (Turning 12 / Milling 21)

### Max. turning length

The max. tool length is enlarged by 200mm for further enhancement of machining capacity.





Tool magazine for PUMA VTR1216M

# **PUMA VTR1216 series**



Item		Unit	PUMA VTR1216	PUMA VTR1216M	
	Max machining dia.	mm (inch)	1600	1600 (63.0)	
Capacity	Max machining height	mm (inch)	1250	1250 (49.2)	
	Max table load	kg (lb)	8000 (1	8000 (1763.7)	
Travel distance	X axis(left / right)	mm (inch)	-700 / +1000	-700 / +1000 (-27.6 / +39.4)	
	Z / W axis	mm (inch)	1200 / 800	1200 / 800 (47.2 / 31.5)	
	C axis	deg		360	
Rapid traverse rate	X / Z axis	m/min (ipm)	12 / 10 (47)	12 / 10 (472.4 / 393.7)	
	C axis	deg/min	•	900	
Main spindle	Chuck size	mm (inch)	1250 {1400}*	1250 {1400}* (49.2 {55.1}*)	
	Max spindle speed	r/min	40	400	
	Max. spindle motor power	kW (Hp)	45 {70}* (60	45 {70}* (60.3 {93.9}*)	
	Max spindle torque	N∙m (ft-lb)	20557 {31997}* (1	20557 {31997}* (15171.1 {23613.8}*)	
Tool magazine	Max tool position	ea	12 {24}*	15 {33}*	
Ram spindle	RAM size	mm (inch)	260 X 260 (	260 X 260 (10.2 X 10.2)	
CNC system			DOOSAN-FANUC i		

# **External dimensions**



\*{ } Option

Unit : mm (inch)





# **Doosan Machine Tools**

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\* For more details, please contact Doosan Machine Tools.

\* The specifications and information above-mentioned may be changed without prior notice.

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