

VMP MACHINE TECHNICAL SPECIFICATIONS

MODEL	Unit	VMP-23A	VMP-23A-APC	VMP-30A	VMP-32A	VMP-32A-APC	VMP-40A	VMP-45A		VMP-50A		VMP-65A		
TRAVEL		BBT-40	BBT-40	BBT-40	BBT-40	BBT-40	BBT-40	BBT-40	BBT-40	BBT-50	BBT-40	BBT-50	BBT-40	BBT-50
X - axis travel	mm	580	580	760	820	800	1,020	1,100		1,300		1,650		
Y - axis travel	mm	420	420	420	520	520	520	610		610		800		
Z - axis travel	mm	510	510	510	505 (OPT:635)	505	505(OPT:635)	600		600		800		
Spindle nose to table surface	mm	80 ~ 590	135 ~ 645	80 - 590	100 ~ 605 (OPT:80~715)	148 - 653	80 ~ 585 (OPT:80~715)	135 ~ 735		120 ~ 720		70~870		
Spindle center to column surface	mm	455	455	455	560	560	560	660		660		850		
Table surface to floor	mm	820	915	820	920	1025	940	960		975		1,080		
Table center to column surface	mm	245 ~ 665	245 ~ 665	245 ~ 665	300 ~ 820	300 - 820	300 ~ 820	355~965		355~965		450~1,250		
TABLE														
Table dimensions	mm	650 x 420	580 x 410	890 x 420	950 x 520	700 x 500	1,150 x 520	1,200 x 600		1,420 x 600		1,700 x 800		
Maximum load	kg	300	120	300	800	200	800	1,500		1,500		1,500		
T - slot	mm	14 x 4 x 100	35-M12xP1.75	14 x 4 x 100	18 x 5 x 100	35-M16 x P2.0	18 x 5 x 100	18 x 5 x 100		18 x 5 x 100		18 x 6 x 125		
SPINDLE														
Spindle speed	rpm	10,000	10,000	10,000	10,000	10,000	10,000	10,000	6,000	10,000	6,000	10,000	6,000	
Spindle taper	type	7/24 taper No.40	7/24 taper No.40	7 / 24 taper No.40	7/24 taper No.40	7/24 taper No.40	7/24 taper No.40	7/24 taper No.40	7/24 taper No.50	7/24 taper No.40	7/24 taper No. 50	7/24 taper No.40	7/24 taper No.50	
Spindle power	kW	7.5 / 11	7.5 / 11	7.5 / 11	7.5 / 11 (OPT:15 / 18.5)	7.5 / 11 (OPT:15 / 18.5)	7.5 / 11 (OPT:15 / 18.5)	15 / 18.5		15 / 18.5		15 / 18.5		
FEEDRATE														
X - axis rapid traverse	m / min	48	48	48	40	40	40	36		36		36		
Y - axis rapid traverse	m / min	48	48	48	40	40	40	36		36		36		
Z - axis rapid traverse	m / min	48	48	48	30	30	30	24		24		24		
ATC														
Tool changing time (tool-to-tool)		2.0 sec / 50Hz	2.0 sec / 50Hz	2.0 sec / 50Hz	2.0 sec / 50Hz	2.0 sec / 50Hz	2.0 sec / 50Hz	2.0 sec / 50Hz		2.0 sec / 50Hz		2.0 sec / 50Hz		
Tool changer		Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type		Arm Type		Arm Type		
No. of tools	type	24	20	24	24	24	24	24		24		24		
Pull stud		P-40T (45°)	P-40T (45°)	P - 40T (45°)	P-40T (45°)	P-40T (45°)	P-40T (45°)	P-40T (45°)	P-50T (45°)	P-40T (45°)	P-50T (45°)	P-40T (45°)	P-50T (45°)	
Max. tool weight	kg	7	7	7	8	8	8	8	15	8	15	8	15	
Max. tool length	mm	250	250	250	300	300	300	300	350	300	350	300	350	
Max. tool diameter	mm	Ø80	Ø80	Ø80	Ø80	Ø80	Ø80	Ø80	Ø100	Ø80	Ø100	Ø80	Ø100	
Max. Tool diameter (no adjacent tool)	mm	Ø130	Ø130	Ø130	Ø150	Ø150	Ø150	Ø150	Ø200	Ø150	Ø200	Ø150	Ø200	
OTHERS														
Floor space	mm	1,900 x 2,255	1,900 x 2,630	2,100 x 2,255	2,905 x 2,260	3,300 x 3,175	3,040 x 2,260	3,180 x 2,800		3,550 x 2,800		4,400 x 3,500		
Machine weight	kg	3,000	3,900	3,300	5,800	7,500	6,300	6,800		7,300		11,000		
Max. machine height	mm	2,370	2,520	2,370	2,800	2,950	2,800	2,900		2,900		3,300		
Power capacity	KVA	30	30	30	35	35	35	30(35)		30(35)		30(35)		
Air source	kg/cm ²	6-8	6-8	6-8	6-8	6-8	6-8	6-8		6-8		6-8		

* APC changing time : 6 seconds/ VMP - 23A-APC, 10 Seconds/ VMP32A - APC.

* Technical Specifications and design characteristics are subject to change without prior notice.

(Controller : Fanuc / Mitsubishi / Siemens)

STANDARD ACCESSORIES

- * 3 axes pretensioned ballscrews - C3 class
- * Clamping / unclamping device
- * Automatic lubrication system
- * Fully enclosed machine guard
- * Dust-proof electrical cabinet
- * Spindle air sealing
- * Rigid Tapping
- * Leveling blocks and plates
- * Top roof
- * Spindle coolant nozzle
- * Operation and maintenance manual
- * Coolant system with flushing system
- * Door interlock
- * Machine lamp
- * Tool Kit
- * Feedback through absolute encoder

- * Spindle Taper Air Blow
- * Telescopic Covers & wipers
- * Manual Pulse Generator
- * RS 232 Serial / USD Interface

OPTIONAL ACCESSORIES

- * 3 axes linear scales
- * Coolant through spindle
- * Workpiece measurement system
- * Automatic tool length measurement and breakage detection
- * Chip conveyor
- * Chip Screw - 2 side
- * Spindle oil cooler
- * Coolant gun
- * 4th & 5th axis preparation for CNC Rotary / Tilting table
- * High Pressure Pump
- * 12,000 rpm belt type spindle BBT 40
- * Z axis Travel 635 mm (VMP 32/40)
- * Gear Box for spindle
- * 3 color signal light
- * Auto Power off

- * Column riser to increase day light
- * Oil Skimmer
- * Air Conditioner for electrical cabinet
- * Edge finder
- * Voltage Stabilizer
- * Ultra Isolation transformer
- * Linear Scales
- * Rotary table
- * HSK spindle

