Machine Specification

Travel	PV66	PV1052
X/Y/Z-axis	660 / 406 / 508mm	1060 / 520 / 610mm
Distance from spindle nose to table	102-610mm	115-725mm

Dimension	762 x 406mm	1160 x 520mm
Max. load	500kg	650kg
T-slot (width x pitch x number)	18 x 100 x 3mm	18 x 100 x 5mm

Spindle type [OP]	Direct drive
Spindle speed [OP]	12000rpm
Spindle motor power	7.5kW/15kW (Cont./S3-25%)
Spindle taper	BBT40

Rapid feed (X/Y/Z)	38/38/32m/min	32/32/32m/min
Cutting feed	12000n	nm/min
Motor power (X/Y/Z)	1.8/1.8/2.5kW	1.4/2.5/2.5kW

ATC & magazine

7110 & magazine		
ATC type	Ar	m
Number of tools	20pcs	24pcs
Max. tool diameter	80/120mm	80/125mm
Max. tool length	240mm	300mm
Max. tool weight	71	kg

Air pressure	6kgf/cm²	
Electric power supply	25kVA	30kVA

Machine weight 2818kg 6200kg	net weight		
Wachine Weight 2010kg 0200kg	Machine weight	2818kg	6200kg

^{*} The specifications and information may be changed without prior notice.

Standard & Optional

Standard:

Fanuc 0iMF-Plus 10.4" 12,000rpm, BBT40, direct drive spindle 20T (PV66) / 24T (PV1052) Spindle air blast Cutting air blast Spindle oil cooler Cutting coolant system Coolant tank & coolant flushing system Full chip enclosure Chip auger with lift up exhaust tube 3-Color signal light Working light Heat exchange for electric cabinet Leveling block and screws Maintenance tools Manuals Washing gun & air gun USB / Ethernet / RS-232C interface Manual pulse generator Automatic centralized lubrication system

Mitsubishi M80A 10.4" Coolant through spindle 30bar Chain type / scraper type chip disposal Workpiece measurement Tool measurement Oil skimmer Oil mist collector Oil mist cutting device Transformer **CE** certified







PV-01-EN-202201





High Speed Vertical Machining Center

PV66 PV1052



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The PV Series are designed for high rigidity, reliability and productivity, as demonstrated in both surface finish quality and consistent precision. The PV Series combines the highest removal with the best dynamics. It can handle a wide range of workpieces for all kind of applications.

Basic Structure









Ergonomic swivel operation panel

The operation panel can swivel 120°, and the height is designed to be at the operator's viewpoint.

High rigidity structure

Bed, columns, saddle and other main castings are made of Meehanite grade cast iron and remove the internal stress by heat treatment to ensure the best structural stability and positioning accuracy.

The VC Series achieves high-rigidity and optimal machine structure by using FEM analysis from the design.

Hand scraping

Accuracy is ensured by hand scraped contact points. Contact surfaces such as column to base components, spindle cartridge to spindle housing, ball screw bearing block seats to bearing retainer and worktable to linear guide trucks and motor seat.

Hand scraping results in better mating surfaces of key components and will provide consistent results over a longer period of time.



Excellent chip removal

The sheet metal of the enclosure is designed with the proper slope to augment the high-volume programmable wash down, automating cleanup while saving valuable time for running parts.

Direct Spindle

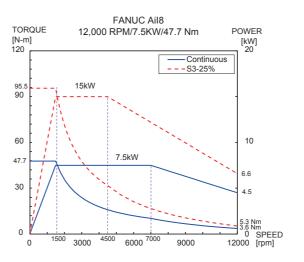


High speed direct drive spindle

The high-power direct drive spindle limits vibration, noise and power loss during high speed rotations to achieve superior part finish.

Stable Spindle Cooling Circulation

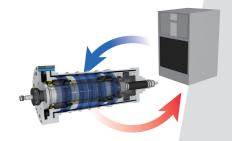
Spindle temperature is constantly controlled by oil chiller. Our test result have proven that the temperature of the circulating oil is controlled within certain variation, which minimizes thermal displacement during continuous operation at high speed.

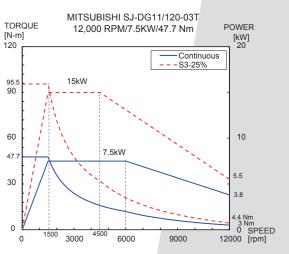


12,000rpm Direct drive spindle (ST:PV66, PV1052)

7.5/15 kW Power (Cont./S3-25%)

47.7/95.5 N.m Torque (Cont./S3-25%)





12,000rpm Direct drive spindle (OP:PV66, PV1052)

7.5/15 kW Power (Cont./S3-25%)

47.7/95.5 N.m Torque (Cont./S3-25%)

Wide Machining Area



Maximum workpiece size (L x W x H)

PV66	660 x 406 x 508mm
PV1052	1060 x 520 x 610mm

Maximum workpiece weight

PV66	500kg
PV1052	650kg