

VC

Series: Rigid and powerful for every application.

The VC Series can handle a wide range of parts for all kinds of applications thanks to a highly versatile control system that comes with the VC0852, VC1052, and VC1200. The VC Series machines are designed for high rigidity, reliability, and productivity, as demonstrated in both surface finish quality and repeatable precision.

SERIES OVERVIEW

- Rapids of 1,417 inches per minute.
- Perfect combination of fast cutting and high stability.
- Pre-tensioned ballscrews minimize thermal growth and improve accuracy.
- Direct-coupled ballscrews increase accuracy.
- Ergonomic table simplifies setup.
- Swiveling control panel optimizes floor space utilization.
- Robust, precision-machined castings.
- Hand-scraped contact areas.
- 24-tool, CAT 40, swing-arm ATC standard; VC1200 is 30-tool.
- Integrated washdown and chip management system.
- Spindle chiller maximizes heat dissipation.
- Absolute encoders ensure fast startup.
- Fanuc® 0i Plus Control.



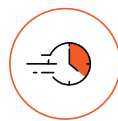
High-Rigidity Frame Structure

The VC Series achieves high rigidity and optimal machine structure by using FEM analysis throughout the entire design process.



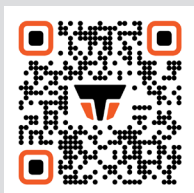
High-Rigidity LM Roller Guideways

The VC Series is equipped with $\varnothing 45$ mm wide roller-type linear ways, which feature higher load capacity and greater rigidity, even at high acceleration.



High Speed and High Productivity

Higher productivity is achieved by reducing non-cutting time and improving the acceleration and deceleration times of all motion system axes.



SCAN HERE
to learn more about
VC Series Machines
or visit TakumiUSA.com.

Machine Specifications

Control	VC0852	VC1052	VC1200
Control Type	Fanuc® Oi Plus	Fanuc® Oi Plus	Fanuc® Oi Plus

Travel			
X, Y, Z Axis	33.9 x 20.5 x 24 in (861 x 520 x 610 mm)	41.7 x 20.5 x 24 in (1,060 x 520 x 610 mm)	50 x 26 x 24 in (1,270 x 660 x 610 mm)
Distance from Spindle Nose to Table	4.53 ~ 28.54 in (115 ~ 725 mm)	4.53 ~ 28.54 in (115 ~ 725 mm)	5.91 ~ 29.92 in (150 ~ 760 mm)

Table			
Table Size	39.4 x 20.47 in (1,000 x 520 mm)	45.67 x 20.47 in (1160 x 520 mm)	59 x 28.98 in (1,500 x 660 mm)
Maximum Load	1,102 lbs (500 kg)	1,433 lbs (650 kg)	2,990 lbs (1,360 kg)
T-Slot	5 x .71 in on 3.94 in Centers (5 x 18 mm on 100 mm Centers)	5 x .71 in on 3.94 in Centers (5 x 18 mm on 100 mm Centers)	5 x .71 in on 3.94 in Centers (5 x 18 mm on 100 mm Centers)

Spindle			
Spindle Speed	12,000 rpm	15,000 rpm	15,000 rpm
Motor Power	20.1 HP (15 KW)	20.1 HP (15 KW)	20.1 HP (15 KW)
Spindle Taper	Big Plus® CAT 40	Big Plus® CAT 40 Direct Drive	Big Plus® CAT 40
Peak Spindle Torque	87.8 ft. lbs (119 Nm)	87.8 ft. lbs (119 Nm)	87.8 ft. lbs (119 Nm)

Feed			
Rapid Traverse (X, Y, Z)	1,417 x 1,417 x 994 ipm (36 x 36 x 24 m/min)	1,417 x 1,417 x 994 ipm (36 x 36 x 24 m/min)	1,417 x 1,417 x 994 ipm (36 x 36 x 24 m/min)
Cutting Feed	0.04 ~ 472.44 ipm (1 ~ 12,000 mm/min)	0.04 ~ 472.44 ipm (1 ~ 12,000 mm/min)	0.04 ~ 472.44 ipm (1 ~ 12,000 mm/min)

ATC			
ATC Type	Swing Arm	Swing Arm	Swing Arm
Number of Tools	24	24	30
Maximum Tool Diameter	3.15 / 5.91 in (80 / 150 mm)	3.15 / 5.91 in (80 / 150 mm)	3.15 / 4.92 in (80 / 125 mm)
Maximum Tool Length	11.81 in (300 mm)	11.81 in (300 mm)	11.81 in (300 mm)
Maximum Tool Weight	15.4 lbs (7 kg)	15.4 lbs (7 kg)	15.4 lbs (7 kg)
Tool Shank	CAT 40	CAT 40	CAT 40

Space and System Requirements			
Machine Net Weight	12,566 lbs (5,699 kg)	13,007 lbs (5,900 kg)	19,842 lbs (9,000 kg)
Electric Power Supply	30 KVA	30 KVA	35 KVA
Pneumatic Pressure	5 CFM @ 85-115 psi (0.14m3/min @ 6-8 bar)	5 CFM @ 85-115 psi (0.14m3/min @ 6-8 bar)	5 CFM @ 85-115 psi (0.14m3/min @ 6-8 bar)
Operating Dimensions	195.15 x 147.36 x 122.01 in (4,957 x 3,743 x 3,099 mm)	195.15 x 147.36 x 122.01 in (4,957 x 3,743 x 3,099 mm)	207.87 x 139.76 x 122.05 in (5,280 X 3,550 X 3,100 mm)

Information may change without notice. Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions.