

VC1052
Vertical
Machining Center



Heavy Duty General Purpose Machine

- **▶** 41.7 x 20.47 x 24 in (1060 x 520 x 610 mm) travels
- ▶ 45.7 x 20.5 in (1,160 x 520 mm) table working surface with 1,433 lbs (650 kg) maximum table capacity
- **>** Fast 1,417 x 1,417 x 944 in/min (36 x 36 x 24 m/min) rapids
- ▶ 472.4in/min (12 m/min) cutting feed rate
- **>** 12,000 RPM, CAT 40 spindle
- **>** Rigourous testing and spindle chiller to ensure thermal stability
- ▶ 24-station swing-arm ATC, random access
- ▶ 1.31 second tool-to-tool ATC time
- > Wide, robust machine base
- **>** Rugged axis power transmission
- > Roller type linear guides on all three axis
- ➤ Large diameter , preloaded and pretensioned ballscrews with fine pitch for accurate motion control
- **>** 35 components on the machine are hand-scraped for fit
- **>** Wide front door openings and side door access
- > Takumi FANUC[©] H Control
- **>** AICC II for high feed rates with optimal cutting precision
- ▶ 400 Block look ahead for fast contour milling
- ▶ 56 work offsets for increased flexibility in job set up
- **>** 400 tool offset library with length and radius wear
- > Set Up Guidance function to decrease set up time
- ➤ Programmable mirror image
- **>** Compact flash memory card slot and USB port
- > Rigid Tapping (M29)
- **)** 2 year machine parts warranty
- **>** 2 year control parts and labor warranty
- ▶ Factory trained local service and 24/7 tech support

pecifications

	VC1052
Travel	
X-Axis	41.73 in / 1,060 mm
Y-Axis	20.47 in / 520 mm
Z-Axis	24.02 in / 610 mm
Distance from Spindle Nose to Table	4.53 ~ 28.54 in / 115 ~ 725 mm
Distance from Spindle Nose to Z-Axis Guide Ways	22.64 in / 575 mm
Table	
Dimensions	45.67 x 20.47 in / 1,160 x 520 mm
Max. Load	1,433 lbs / 650 kg
T-slot (number x width x pitch)	5 x .71" on 3.94" Centers/ 5 x 18mm on 100mm Centers
Spindle	
Туре	Belt
Spindle Speed	12,000 rpm
Motor Power (cont./30 min)	10.1/14.8 HP / 7.5/11 kW
Spindle Taper	CAT 40/BT 40
Feed Rate	
Rapid Traverse (X/Y/Z)	1,417 x 1,417 x 944 ipm / 36 x 36 x 24 m/min
Cutting Feed Rate	0.04 ~ 472.44 ipm / 1 ~ 12,000 mm/min
Power (X/Y/Z)	2.4/4.0/3.3 hp / 1.8/3.0/2.5 kW
ATC & Magazine	
ATC Type	Swing-Arm
Magazine Capacity	24 tools
Maximum Tool Diameter (next pocket empty)	3.15/5.91 in / 80/150 mm
Maximum Tool Length	11.8 in / 300 mm
Maximum Tool Weight	15.4 lbs / 7 kg
Tool Shank	CAT40 (BT 40 optional)
Space & System Requirements	
Pneumatic Pressure	5 CFM @ 85-115 psi / 0.14m3 /min. @ 6-8 bar
Electrical Power Consumption	30 KVA
Machine Net Weight	13,007 lbs / 5,900 kg
Machine Dimension	116.42 x 84.72 x 112.01 in / 2,957 x 2,152 x 3,099 mm
Operating Dimensions (W x L x H)	195.15 x 147.36 x 122.01 in / 4,957 x 3,743 x 3,099 mm

Accessories

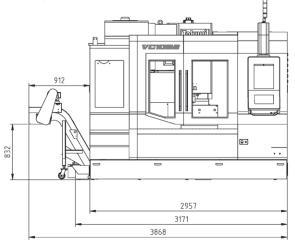
Standard:

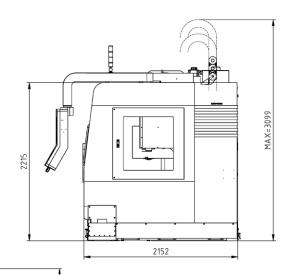
- **>** Operator safety door switches
- > Spindle chiller
- **>** Programmable cutting air blow
- **▶** 100 gallon coolant tank
- > Programmable coolant wash down
- ➤ Programmable chip auger with lift-up exhaust tube and chip cart
- > Wash down gun and air gun
- > Centralized automatic lubrication system
- ➤ Manual pulse generator (MPG)
- > Ethernet & RS-232C interface
- **>** 4th axis interface cables and connectors
- ➤ Electrical cabinet heat exchanger
- > Toolbox
- **>** Leveling bolts and pads
- ➤ Operator manuals
- > Full enclosure
- **>** Work light
- **>** 3-light indicator lamp

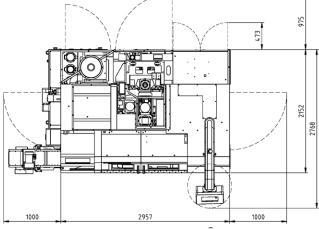
Optional:

- > Coolant through spindle (CTS)
- **>** Oil skimmer
- > Oil mist device
- ➤ Oil mist collector
- **>** Coolant filtration
- ▶ 1 Gigabyte Data Server
- > Memory Card editing
- **>** Part probe measurement system
- **>** Tool probe measurement system
- **>** 4th axis rotary table
- **>** Lift up chip conveyor with cart
- **▶** BT 40 tool holder conversion

Layout











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