

Takumi

The Industry Standard

VC1052

Vertical Machining Centers



Small Footprint + Large Work Cube

- 41.7 (X-Axis) x 20.5 (Y-Axis) x 24.02 (Z-Axis) in (1060 x 520 x 610 mm) travels
- 1,417 x 1,417 x 944 in/min (36 x 36 x 24 m/min) rapids
- 24-station swing-arm ATC
- 1.31 second tool-to-tool ATC time
- Chip auger with lift-up exhaust tube standard
- 12,000 RPM belt spindle
- 40 taper
- Ergonomic table for simplifies setup
- 45.7 x 20.47 in (1,160 x 520 mm) table, 1,433 lbs (650 kg) capacity
- Direct-drive z-axis for increased stability
- Spindle chiller standard
- Perfect combination of fast cutting and high stability
- Designed and built for 3D mold machining
- Pre-tensioned ballscrews minimize thermal growth and improve accuracy
- Ergonomic table simplifies setup
- Swiveling control panel for optimal floor space utilization
- Robust, precision-machined castings
- 24-tool, CAT/BT 40, swing-arm ATC
- Integrated washdown and chip management system
- Spindle chiller maximises heat dissipation
- FANUC[®] Oi-MF Series Control
- Direct-coupled ballscrews, for increases accuracy
- Absolute encoders insures fast start-up
- Hand-scraped contact areas
- Responsive, local service and support

Specifications

	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 (width x pitch x number)	18 x 100 x 5
Spindle	
Type	Belt
Spindle Speed	12,000 rpm
Spindle Torque Peak	70.8 ft/lb / 96.01 nm
Motor Power (cont./30 min)	10.1/20.1 HP / 7.5/15 kW
Coolant Thru Spindle	30 bar / 435.11 psi
Spindle Taper	CAT/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	11.81 in / 300 mm
Maximum Tool Weight	15.43 lbs / 7 kg
Tool Shank	CAT/BT 40
Space & System Requirements	
Pneumatic Pressure	5 CFM @ 85-115 psi / 0.14m ³ /min. @ 6-8 bar
Electrical Power Consumption	30 KVA
Machine Net Weight	12,566 lbs / 5,700 kg
Machine Dimension	116.42 x 84.72 x 112.01 in / 2,957 x 2,152 x 3,099 mm
Operating Dimensions	195.15 x 147.36 x 122.01 in / 4,957 x 3,743 x 3,099 mm

Accessories

Standard:

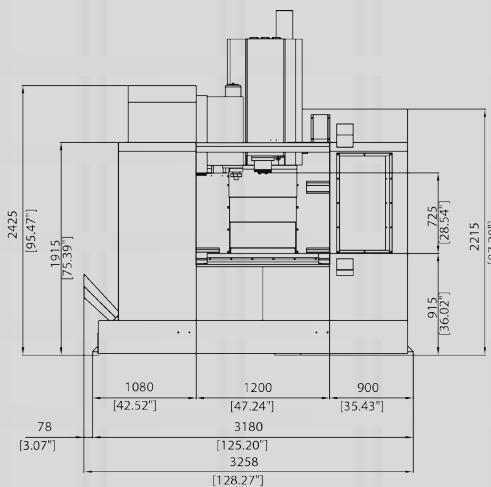
- FANUC® Oi-MF Series Control
- 24-tool, CAT, swing-arm ATC
- Wash down gun and air gun
- Coolant wash down system
- Chip auger
- Centralized automatic lubrication system
- Manual pulse generator (MPG)
- Ethernet & RS-232C interface
- Heat exchanger
- Toolbox
- Leveling bolts and pads
- Operator manuals
- Programmable airblow machining
- Spindle chiller
- Full enclosure
- Work light
- 3-light indicator lamp

Optional:

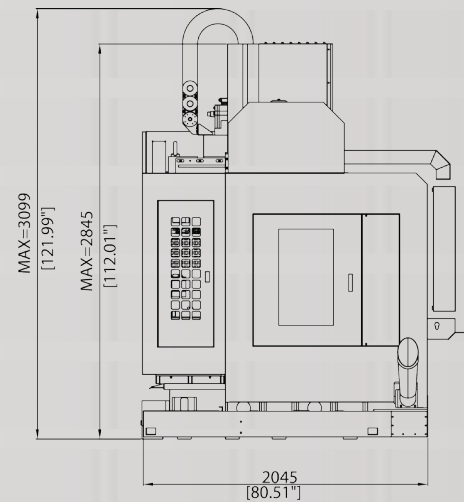
- Coolant through spindle (CTS)
- Oil skimmer
- Oil mist device
- Oil mist collector
- Part probe measurement system
- Tool probe measurement system
- 4th axis rotary table
- Chip conveyor and cart
- CAT3 compliance package
- BT 40
- Air Conditioner

Layout

Front View



Side View



Top View

