VM5020

- Vertical Machining Center
- Table : 52" x 20"
- Travels : 50" x 20" x 20"
- Control : 9000

VM 5020

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Shown with options

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VM5020

SPECIFICATIONS:

CAPACITY:
Travels	50 x 20 x 20" (1270 x 508 x 508 mm)
Table Size	52 x 20" (1321 x 508 mm)
Allowable Table Load	2000 lbs. (907 kg)
T-Slot Size	.71" (18 mm)

SPINDLE:
Spindle Nose To Table Distance	4-24" (101-610 mm)
Column To Spindle Center	20.25" (514 mm)
Spindle Taper	BIG-PLUS® ISO No. 40
Standard Spindle Speed	10,000 RPM
AC Spindle Motor	20/15 HP (15/11 kW)
Spindle Torque	75 ft-lbs (102 N.m)

OPTIONAL AUTOMATIC TOOL CHANGER:
Number of Tools	20 Double Arm
Tool Shank	CT40
Pull Stud	MAS 60° Retention Knob Style CT-Flang
Max. Tool Diameter	3.5'' (89 mm)
Max. Tool Length	9.8" (250 mm)
Max. Tool Weight	15 lbs (7 kg)

MOTION:
X/Y/Z Axis Rapid Traverse Rate	945 IPM (24 m/min)
Max. Cutting Feed Rate	500 IPM (12.5 m/min)
Least Command Increment	0.0001" (0.001 mm)
Positioning Accuracy	+/- 0.0002" (+/- 0.005 mm)
Axis Thrust Force XY,Z	3765/2884 lbs (1707/1308 kg)

GENERAL:
Machine Height	102" (2570 mm)
Floor Space Required (W x D)	112 x 110" (2828 x 2777 mm)
Machine Weight	9400 lbs. (4270 kg)
Power Required	20 KVA / 50 Amps
Voltage Required	208-240 Volts/3 Phase

MACHINE FEATURES:

MACHINE STANDARDS:
- Heavily ribbed one piece fine grain cast iron construction
- Fully enclosed machine guard with side doors
- 35/45 mm linear way technology
- Precision ground anchored double nut ballscrews
- Precision ground table surface
- Telescopic metal way covers
- 20 pocket double arm ATC
- BIG-PLUS® dual contact spindle
- Automatic positive displacement lubrication system
- High torque AC digital servo drives
- High torque closed loop vector spindle drive system
- Work light
- LCD hour meter
- Spindle taper blow-out and tool release push button
- Single spare "M" function with CNC "wait" channel
- Programmable on/off flood coolant system
- Rigid tap
- Edit key lockout switch
- Spindle load meter
- Feedrate and spindle speed overrides
- Spindle air purge
- End of cycle light

MACHINE OPTIONS:
- Coolant through spindle system
- Work offset probing
- 4th axis options
- Chip auger chip removal system
- Chip conveyor chip removal system
- Remote handwheel
- Auxiliary industrial grade keyboard
- Electronic spindle chiller
- Air gun
- Coolant wash down gun
- Additional work light
- BT style tooling

9000 CNC
The new standard of control

With its conversational programming, onscreen help, intuitive menus, color graphics and prompted tool settings, the 9000 CNC helps new operators train faster and become more productive sooner. It's a window based platform runs parts programmed conversationally or tool paths generated by a CAM system.

CONTROL STANDARDS:
- Milltronics 9000 CNC includes 120 GB solid state hard drive
- Windows® Intel i5 Dual Core processor
- Enhanced CPU with block processing speed of 3000 bps with enhanced jerk control and look ahead
- 15" color resistive touch screen (LED backlit) 1024 x 768 resolution, driven by a high-end 600 Mhz graphics card featuring an on-board CPU and 1 GB video memory
- Auto DXF file import
- 3D part and wire frame tool path graphics plus solid modeling graphics
- Conversational, G&M code or CAD/CAM programming including coordinate rotating, scaling, mirror image, thread mill, engraving, helical interpolation, auto routines, user definable macros, trig assist and irregular pocket clearing
- Management software that allows editing of large program files at the machine
- MTConnect compliant
- Networking
- Two USB ports
- Mid-travel with tactile feedback keys

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