

VMC 4020A

*The closer you look into a Fadal Vertical Machining Center
the further your expectations are exceeded*



Fadal

Fadal Machining Centers

VMC 4020A

SPECIFICATIONS

General

FLOOR TO TABLE SURFACE	35"
MACHINE WIDTH x DEPTH	116" W x 87" D
MACHINE MAXIMUM HEIGHT	114"
MACHINE WEIGHT	11,000 lbs.

Table

TABLE SIZE	48" x 20"
T-SLOTS (NO. x WIDTH x SPAN)	5 x .687" x 3.75"
CUTTING FEED RATE (X/Y/Z)	.01"-400" (600" at 150%)
RAPID TRAVEL RATE (X/Y/Z)	900 ipm (X,Y) 700 ipm (Z)
MAX. WEIGHT ON TABLE	3,000 lbs.
BALL SCREW SIZE	40 mm Dia. X/Y/Z
LONGITUDINAL (X AXIS)	40"
CROSS (Y AXIS)	20"
VERTICAL (Z AXIS)	20" (Optional 28")
SPINDLE NOSE TO TABLE	4"-24" (4"-32" with Z Option)
SPINDLE CENTER TO COLUMN WAYS	20"

Accuracy

ACCURACY, AXIS POSITIONING**	+/- .0002"
ACCURACY, AXIS REPEATABILITY**	+/- .0001"

Spindle

POWER TRANSFER	Automatic Electronic 2 speed VECTOR Drive
SPINDLE SPEED	10 -7,500 RPM
SPINDLE SPEED OPT.	10-10,000 RPM
SPINDLE ORIENTATION	Electromechanical
SPINDLE TAPER	No. 40

Tools

ATC, NUMBER OF TOOLS	21 (30 Tools Optional)
ATC, TOOL SELECTION	Random/Bi-directional
MAX. TOOL DIAMETER (WITHOUT ADJACENT TOOLS)	3"
MAX. TOOL LENGTH	4.5"
MAX. TOOL WEIGHT	15"
	15 lbs.

Motor

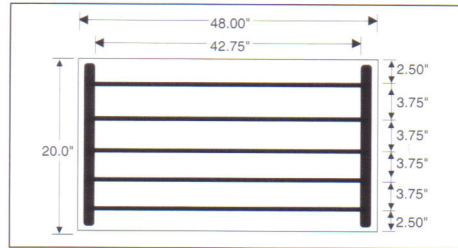
SPINDLE DRIVE MOTOR	AC, WYE/Delta VECTOR Drive
HORSEPOWER*	22.5 HP
TORQUE*	120 Ft.-lbs./ 160 Ft.-lbs.(10Kopt)

AXIS DRIVE MOTOR (X/Y/Z)	AC, 3,800 lbs.* thrust
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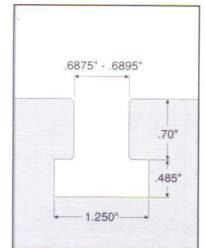
Miscellaneous

AIR PRESSURE REQUIREMENT	80 PSI, 15 SCFM (Momentary)
POWER REQUIREMENT (3-Phase)	40/45 Amps, 230 VAC
SINGLE PHASE (Optional)	60 Amps, 230 VAC
COOL POWER	Spindle, X, Y, Z, Ballscrews

TABLE SPECIFICATIONS



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T-SLOT

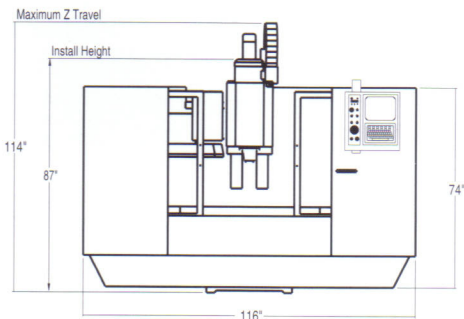
OPTIONS

- RIGID TAP
- HIGH SPEED SERVO TURRET
- 30 TOOL TURRET
- REMOTE MANUAL PULSE GENERATOR
- DIGITIZING
- AUTO AIM SERVO COOLANT
- MIST COOLANT
- EXPANDED MEMORY LEVELS:
 - 1) 422K (3061 FT.)
 - 2) 4 MEGABYTE (29,000 FT.)
 - 3) 8 MEGABYTE (58,000 FT.)
 - 4) 16 MEGABYTE (116,000 FT.)
- 4TH AXIS ROTARY TABLE
- 4TH & 5TH AXIS ROTARY TILT TABLE
- IN-PROCESS MEASUREMENT
- TOOL BREAKAGE DETECTION
- TOOL LOAD COMPENSATION
- EXTENDED COLUMN
- 32 MP/FADAL VISUALIZER
- TOOL LOAD COMPENSATION
- COOLANT THROUGH SPINDLE
- 10,000 RPM

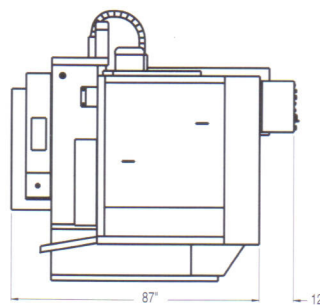
* Peak

** All accuracies are quoted at 68 F.

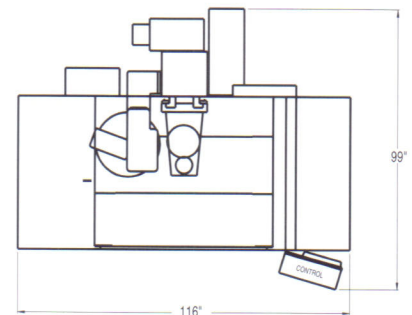
Fadal reserves the right to change standard and optional machine accessories. Extended column add 8" to height. Continuous equivalent A-weighted sound pressure at workstation is 77 db(A) or less during normal cutting operations. We reserve the right to change standard and optional accessories.



Front View



Side View



Top View

Fadal

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