

# Fadal

## VM5 X32

CNC Vertical Machining Center  
with Fadal 64MP CNC Controller



### 2 YEAR WARRANTY

2-Year/4,000 User-Hours

📍 3100 E CEDAR STREET,  
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✉ SALES@FADAL.COM

**MADE  
FOR MACHINISTS  
BY MACHINISTS.**

*Fadal.com*

## STANDARD FEATURES

- Spindle Oil Cooler
- LED Work Lamp
- Fully Enclosed
- Spindle Air Blast
- Automatic PDI Lubrication System
- Operation Indication Lamp
- Rigid Tapping
- Chip Wash Down System
- Linear Roller Bearing Ways
- High Speed Machining 3-stage chip separation
- Dual supported auto lubricated ball screws
- High torque spindle package
- **2- Year / 4,000 User-Hours Warranty**

## OPTIONAL FEATURES

- Remote Manual Pulse Generator (RMPG)
- 4th Axis Prewire
- 4th Axis Servo Disconnect
- 5C Collet Closure - Pneumatic
- FR-6D Standard Rotary Table (Req. 4th Axis disconnect)
- FR-6A High Speed Rotary Table (Req. 4th Axis disconnect)
- FR-6D Tailstock (Manual Clamp w/Quill)
- 6 Inch 3-Jaw Chuck with Flange
- 15K RPM Spindle
- 20K RPM Spindle
- 24 RPM Motorized Spindle
- Hard Wired Tool Preseter
- Wireless tool Presetter
- Wireless Touch Probe
- Chain Type Chip Conveyor - ATC side exit or Pendant side exit
- Coolant through spindle

## FADAL 64MP CONTROLLER

- Backward Compatible 88HS & MP
- Memory 4GB
- 3,000 Blocks/sec Look Ahead
- Networking & USB Ports
- High Speed Machining



## SPECIFICATIONS

### TRAVEL

X-axis Travel (in.)	18.1
Y-axis Travel (in.)	24
Z-axis Travel (in.)	20
Spindle nose to table (in.)	1.18-21.6
Spindle center to column (in.)	12

### TABLE

Table Dimensions (in.)	12.6 diameter
T-Slot Dimensions (in.)	(4) 90° Apart
Max. Table Load (lbs.)	220
Way Construction	Cross Roller

### FEED

Cutting Feed Rate (ipm)	787 / 3 Axis Simultaneous
Rapid Traverse Rate X, Y & Z (ipm)	787 / 787 / 787
Axis Drive Motor X, Y & Z (hp)	2.4
Ballscrew Diameter X, Z, Y Axis (mm)	44.9
Accuracy Positioning - JISB6338 (in.)	0.0002
Accuracy Repeatability - JIS B6338 (in.)	0.00015
Power Transfer	Direct Drive

### SPINDLE

Spindle Speed (RPM)	12,000 / 15,000* / 24,000*
Spindle Taper	CAT-40
Spindle Motor (HP)	28/41.5* / 33.5*
Spindle Chiller	Standard
Spindle Orientation	Standard
Rigid Tapping	Standard

### ATC

Tool Capacity	30
Tool Change Type	Dual Arm
Max. Tool Weight (lbs.)	17.64 / 15.43*
Max. Tool Diameter (in.) (with adjacent tool)	3.54/2.95 (7.09/5.91*)
Max. Tool Length (in.)	11.8
Tool Selection Method	Random

### OTHER

Coolant Tank	Standard
Coolant Pump	Multi-Stage
Air Pressure Required (PSI)	90
Min Power Requirement at 208v to 235v max	70A/3Phase / 25kVA
Machine Dimensions L x D x H (in.)	85 x 109 x 122
with Chip Conveyor	140 x 109 x 122
Machine Weight (lbs.)	16,316

Specifications subject to change without notice

\* Optional