

FADAL



**Classic Series**  
**CNC VERTICAL MACHINING CENTERS**  
**Fadal 64MP CNC Controller**  
**\*\* 88HS & 32MP Compatible \*\***

**Fadal**  
**ENGINEERING**

For Machinists. By Machinists.

# CLASSIC SERIES

## CNC VERTICAL MACHINING CENTERS

with Fadal 64MP CNC Controller

### Specifications

| Models                                   | VMC-2516R                                  | VMC-3016R         | VMC-4020B        | VMC-6030B          | VMC-8030B        |
|--|--|-------------------|------------------|--------------------|------------------|
| Travel X axis (in.)                      | 26   | 30                | 40               | 59                 | 79               |
| Travel Y axis (in.)                      | 16   | 16                | 20               | 30                 | 33               |
| Travel Z axis (in.)                      | 20 / 26*                                   | 20 / 26*          | 26 / 30*         | 30 / 35*           | 32               |
| Table size (in.)                         | 30 x 15                                    | 39 x 15"          | 47 x 20          | 62 x 30            | 82 x 30          |
| Max. weight on table (lbs.)              | 2,000                                      | 3,200             | 3,500            | 4,140              | 4,140            |
| Floor to table surface (in.)             | 34   | 34                | 34               | 32                 | 35               |
| Spindle nose to table (in.)              | 4 to 24                                    | 4 to 24           | 3 to 30          | 4 to 43 / 4 to 39* | 4 to 36          |
| Spindle center to column (in.)           | 16.8                                       | 16.8              | 23.6             | 30.2               | 34.2             |
| T-slots and dimensions (in.)             | (3) .63 x 2.48                             | (3) .63 x 2.48    | (5) .63 x 3.38   | (5) .708 x 5.9     | (5) .708 x 5.9   |
| Way construction                         | Roller                                     | Roller            | Box              | Box                | Box              |
| Cutting feed rate (ipm)                  | 790  | 790               | 590              | 590                | 590              |
| Rapid travel rate X/Y/Z (ipm)            | 1,400/1,400/1,181                          | 1,400/1,400/1,181 | 944              | 787                | 787              |
| Axis drive motor X,Y & Z (hp)            | 1.8, 1.8, 2.4                              | 1.8, 1.8, 2.4     | 1.8, 1.8, 2.4    | 4.4, 4.4, 4.4      | 4.4, 4.4, 4.4    |
| Ballscrew size (mm.)                     | 40   | 40                | 40               | 50                 | 50               |
| Accuracy positioning - JIS B6338 (in.)   | 0.0002                                     | 0.0002            | 0.0002           | 0.0003             | 0.0004           |
| Accuracy repeatability - JIS B6338 (in.) | 0.0001                                     | 0.0001            | 0.0001           | 0.00015            | 0.0002           |
| Glass scales X,Y & Z                     | No   | No                | Optional         | Optional           | Optional         |
| Power transfer                           | Automatic mechanical 2-speed Yaskawa drive |                   |                  |                    |                  |
| Spindle speed (RPM)                      | 10,000                                     | 10,000            | 10,000           | 10,000             | 10,000           |
| Spindle taper                            | CAT-40/Big Plus*                           | CAT-40/Big Plus*  | CAT-40/Big Plus* | CAT-40/Big Plus*   | CAT-40/Big Plus* |
| Spindle motor - Peak (hp)                | 15/22.5*                                   | 15/22.5*          | 15/22.5*         | 22.5               | 22.5             |
| High torque                              | Optional                                   | Optional          | Optional         | Standard           | Standard         |
| Spindle chiller                          | Standard                                   | Standard          | Standard         | Standard           | Standard         |
| Spindle orientation                      | Standard                                   | Standard          | Standard         | Standard           | Standard         |
| Rigid tapping                            | Standard                                   | Standard          | Standard         | Standard           | Standard         |
| ATC type                                 | Dual arm                                   | Dual arm          | Dual arm         | Dual arm           | Dual arm         |
| ATC tool selection                       | Random                                     | Random            | Random           | Random             | Random           |
| Number of tools                          | 24   | 24                | 24               | 24                 | 24               |
| Max. tool diameter (in.)                 | 4.9  | 4.9               | 4.9              | 4.9                | 4.9              |
| W/O adjacent tool (in.)                  | 3.1  | 3.1               | 3.1              | 3.1                | 3.1              |
| Max. tool length (in.)                   | 13.8                                       | 13.8              | 13.8             | 13.8               | 13.8             |
| Max. tool weight (lbs.)                  | 15   | 15                | 15               | 15                 | 15               |
| Chip auger and coolant tank              | Standard                                   | Standard          | Standard         | Standard           | Standard         |
| Coolant pump                             | Walrus multi-stage TPHK2T5-3               |                   |                  |                    |                  |
| Air pressure required (PSI)              | 90   | 90                | 90               | 90                 | 90               |
| Min. power required at 220V (kVA)        | 15   | 15                | 15               | 32                 | 32               |
| Machine dimensions L x W x H (in.)       | 127 x 92 x 102                             | 145 x 92 x 102    | 152 x 88 x 102   | 195 x 108 x 106    | 220 x 114 x 113  |
| Machine weight (lbs.)                    | 8,800                                      | 9,250             | 13,200           | 17,600             | 22,500           |

\* Optional

\*\*Specifications subject to change

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