



CNC MACHINE TOOL CO.

## FMC 3016

CNC VERTICAL MACHINING CENTER  
with FREEDOM **M** CNC CONTROLLER



YOU NOW HAVE A CHOICE WITH **FREEDOM**.

### STANDARD FEATURES

- COOLANT THRU PREPPED
- DUAL LED WORKLIGHTS
- 15 IN. TOUCH SCREEN COLOR MONITOR
- 4TH AXIS PREWIRE
- 3,000 BLOCK/SEC EXECUTION
- **HIGH SPEED HIGH PRECISION** SOFTWARE
- CROSS ROLLER BEARING WAY
- 12,000 RPM A/O SPINDLE
- DUAL CONTACT SPINDLE NOSE
- 70MM CERAMIC SPINDLE BEARINGS
- 37.5 PEAK HORSEPOWER
- 30 POSITION DUAL ARM TOOL CHANGER
- CHIP AUGER

MACHINE CONFORMS TO UL-508A CERTIFICATION PER SGS PERMIT # SGSNA/19/TW/00028.

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## Specifications

TRAVEL	
X-axis Travel (in.)	30 in.
Y-axis Travel (in.)	16 in.
Z-axis Travel (in.)	18/28* in.
Spindle nose to table (in.)	5.9-23.6/33.6* in.
Spindle center to column (in.)	19.4 in.
TABLE	
Table Dimensions (in.)	35 x 15.75 in.
T-Slot Dimensions (in.)	(3) 5 x .709 x 1.25 in.
Max. Table Load (lbs.)	1,100 lbs.
SPINDLE	
Spindle Type	Cat-40/BT-40*
Spindle Speed (RPM)	12,000/15,000* RPM
Spindle Motor (HP) Peak	37.5 PEAK HP
ACCURACY	
Positioning accuracy	JIS B 6338 ± 0.00015/12 in.
Repeatability accuracy	JIS B 6338 ± 0.0001/12 in.
FEED	
Rapid Traverse Rate X, Y, & Z (IPM)	1,890 / 1,890 / 1,260 IPM
Cutting Feedrate (single axis moves up to)	790 IPM MAX.
Ballscrew Diameter X, Y, & Z Axis (mm)	32 mm
Axis Drive Motor X, Y & Z (HP)	3.9, 3.9, 5.2 HP
ATC	
Tool Capacity	30
Tool Change Type	Dual Arm
Tool Change Time (sec.)	1.9 sec. tool to tool
Max. Tool Weight (lbs.)	15.4 lbs.
Max. Tool Diameter (in.) (with adjacent tool)	4.9 (3.1) in.
Max. Tool Length (in.)	11.8 in.
Tool Selection Method	Random
OTHER	
Machine Dimensions D x W x H (in.)	98 x 129 x 95 in.
Smaller Coolant Tank w/ Auger (option)	98 x 111 x 95 in.
with Chip Conveyor	98 x 162 x 95 in.
Machine Weight (lbs.)	11,230 lbs.

All specifications are subject to change without notice.

\*Optional



## OPTIONAL

Extended Z Travel & Column 10 IN.  
Rear Washdown Kit  
Coolant Thru 500 PSI System  
4th Axis Servo Disconnect  
5th Axis Servo Disconnect (Simultaneous)  
5th Axis Servo Disconnect (4 + 1)  
5-Axis Vector Software  
15K Air/Oil Spindle  
FR-5C Rotary Table - Pneumatic (Req. 4th Axis Disconnect)  
FR-5C Rotary Table - Manual (Req. 4th Axis Disconnect)  
FR-6 Rotary Table (Req. 4th Axis Disconnect)  
FR-8 Rotary Table (Req. 4th Axis Disconnect)  
FTR-6.5 Tilt Rotary (Req. 4th/5th Axis Disconnect)  
FR-5C Tailstock  
FR-8 Tailstock  
Manual 5C Collet Closure  
6 Inch 3-Jaw Chuck w/ Adapter  
8 Inch 3-Jaw Chuck w/ Adapter  
Marposs Hard Wired Tool Presetter  
Marposs Wireless Tool Presetter  
Marposs Wireless Spindle Probe  
Marposs Wireless Probe & Tool Presetter  
Renishaw CAT40 Wireless Spindle Probe w/ Software  
Renishaw BT40 Wireless Spindle Probe w/ Software  
Renishaw Hard Wired Tool Presetter w/ Software  
Renishaw CAT40 Wireless Probe & Tool Presetter w/ Software  
Renishaw BT40 Wireless Probe & Tool Presetter w/ Software  
Chain Type Chip Conveyor  
Automatic Pallet Changer

## FEATURES

## FREEDOM M CNC CONTROLLER

### Highlighted Features

4 GB Memory  
3000 Blocks/Sec  
3000 Block Buffer Memory  
15-Inch Touch Screen Monitor

See Freedom M CNC Controller Brochure  
for all features and more information!

Authorized Freedom Dealer



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