



CNC MACHINE TOOL CO.

FMC 4020

*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
- RIGID BOX WAY CONSTRUCTION
- 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.)	40 in.
Y-axis Travel (in.)	20 in.
Z-axis Travel (in.)	20/30* in.
Spindle nose to table (in.)	5-25/5-35* in.
Spindle center to column (in.)	21.25 in.
TABLE	
Table Dimensions (in.)	47.25 x 19.75 in.
T-Slot Dimensions (in.)	(5) 3.75 x .709 x 1.25 in.
Max. Table Load (lbs.)	1,320 lbs.
SPINDLE	
Spindle Type	Cat-40/BT-40*
Spindle Speed (RPM)	12,000/15,000* RPM
Spindle Motor (HP) Peak	37.5 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)	1,000 IPM
Cutting Feedrate (single axis moves up to)	790 IPM MAX.
Ballscrew Diameter X, Y, & Z Axis (mm)	40 mm
Axis Drive Motor X, Y & Z (HP)	3.9, 3.9, 5.2 HP
ATC	
Tool Capacity	30/40*
Tool Change Type	Dual Arm
Tool Change Time (sec.)	1.9 sec. tool to tool
Max. Tool Weight (lbs.)	15 lbs.
Max. Tool Diameter (in.) (with adjacent tool)	4.9 (3.1) in.
Max. Tool Length (in.)	13.5 in.
Tool Selection Method	Random
OTHER	
Machine Dimensions D x W x H (in.)	94 x 128 x 110 in.
with Chip Conveyor	94 x 164 x 110 in.
Machine Weight (lbs.)	12,100 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-8 Tilt Rotary (Req. 4th/5th Axis Disconnect)
FR-10 Rotary Table (Req. 4th Axis Disconnect)
FR-5C Tailstock
FR-8 Tailstock
FR-10 Tailstock
Manual 5C Collet Closure
40 Tool Dual Arm Tool Changer
6 Inch 3-Jaw Chuck w/ Adapter
8 inch 3-Jaw Chuck w/ Adapter
10 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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