FX380A

HIGH SPEED 5-AXIS VERTICAL MACHINING CENTER

- Powerful 22.5kW Spindle Output
- High Precision Ceramic Spindle Bearings
- 12,000 RPM Maximum Spindle Speed
- 30T Swing Arm Type ATC System
- Full 5-axis Rotary Table w/ ø350mm Table Capacity
- Oil-air Mist Lubrication for Spindle Bearings
- Pre-tensioned Hardened & Ground Ballscrew
- Servo Motors Direct-couple to Ballscrew
- THK® New NR Type Linear Guide on X,Y,Z Axes
- Automatic Central Lubrication System
- 240 Liter Coolant System with Oil Skimmer
- Spiral Type Chip Conveyor
- Spindle Air Curtain & Cutting Air Blast
- Spindle Cooling System
- High Quality & Rugged MEEHANITE® Castings
- Heidenhain ITNC530 Control
- 15.1” TFT Color Flat-panel Display with Soft Key
- Optimal Motion Control with JERK Function
- Absolute Encoders with 1 Millionth Pulse Resolution
- AC Digital Spindle & Servo Drives
- User Friendly Smart.nc Conversational Feature
- 3D Graphic Simulation During Real Time Machining
- 26Gb Hard Drive
- 256 Blocks Look Ahead
- 0.5ms Block Processing Speed
- RS232C and RS424 Interface
- 100Mbps Ethernet Data Interface
- Built-in Mathematical Functions and Pocket Calculator
- Multiple Fixed Cycle with Graphical Support
- Optimized Graphic Build Up

ISO 9001 BSMI ISO 14001 BSMI CE

YCM®

SPECIFICATIONS

SPINDLE		
Spindle Speed (opt.)	45~12,000rpm (15,000rpm)	
Spindle Power	22.5kW 30.17hp	
Spindle Taper	BBT40	
TRAVEL		
X-axis Travel	700mm 27.56”	
Y-axis Travel	520mm 20.47”	
Z-axis Travel	480mm 19.90”	
TABLE		
Table/T-Slots Size	ø380mm / 12mm Radial ø18.96”/ 0.47”	
Distance Between Table and Floor	1,120mm 44.09”	
Max. Load on Table	250kg 551 lb	
A/C Axis		
A Axis	150˚(+30˚/ -120˚)	
C Axis	360˚	
A/C Axis Feedrate	33.3rev/min.	
A/C Axis Positioning Accuracy	±50 sec. / ±20 sec.	
A/C Axis Repeatability Accuracy	±3 sec. / ±2 sec.	
FEED		
X/Y/Z Rapid Feedrate	36 / 36 / 24m/min. 1417.32/1417.32/944.8ipm	
Cutting Feedrate	10,000mm/min. 393.70ipm	
ACCURACY	ISO 10791-4	JIS B 6338
A Positioning	0.010mm 0.0004”	0.003mm 0.0001”
R Repeatability	0.007mm 0.0003”	±0.002mm ±0.0001”
ATC		
Tool Magazine Capacity (opt.)	30T (40/60T)	
Max. Tool Weight	6kg 13.20 lb	
Max. Tool Dimensions	ø76x280mm ø2.99”x11.02”	
GENERAL		
Pneumatic Supplier	5.5kg/cm2 78.2psi	
Power Consumption	47kVA (45kVA)	
Machine Weight	5,860kg 12,892 lb	

Note: The manufacturer reserves the right to modify the design, specifications, mechanisms,...etc. to improve the performance of the machine without notice. All the specifications shown above are just for reference.

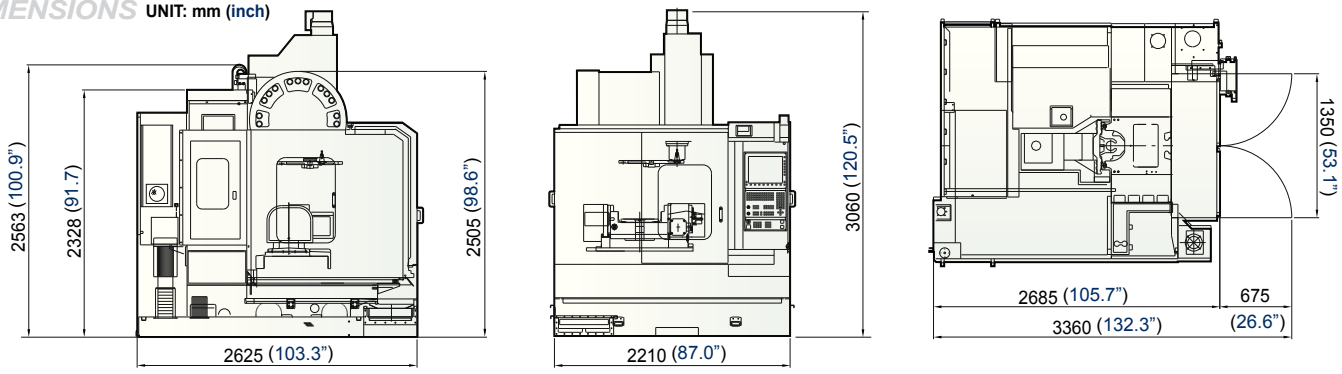
STANDARD ACCESSORIES

- Tool kit
- Work lamp
- Pilot lamp
- Coolant equipment system
- Hydraulic system
- Spindle air blast
- Spindle air seal
- Guideway cover X, Y, Z
- Central lubrication system
- Spindle cooling system
- Levelling blocks
- Interlocked surround guarding
- Cutting air blast
- Coolant gun
- Heat exchanger for electrical cabinet
- Rigid tapping
- Mechanical, electrical & operational manuals

OPTIONAL ACCESSORIES

- Optical scale
- Work piece measurement system
- Tool setting measurement probe
- Coolant through spindle system (form A)
- Chip conveyor
- Chip bucket
- Oil skimmer
- Chip flush coolant device
- Heavy duty coolant pump (MTH 2-40)

DIMENSIONS UNIT: mm (inch)



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ISO 9001, 14001 Certified Manufacturer

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