

YCM



NFX 500A

High Performance 5-axis Vertical Machining Center

Ultra Rigid Body Structure Design

- Extra wide column and base design to ensure best support and cutting rigidity.
- High quality and rugged MEEHANITE® casting maintains optimum accuracy.
- Wide base structure with 10 leveling pads.

Accurate and Smooth Axial Movement

- Roller type linear guideways applied on the three axes for ultimate axial movements.
- Pretension ballscrews applied on the three axes increase axial rigidity providing less thermal deformation.
- 6 slide blocks on X-axis supporting 500 kg maximum load on table.
- 4 linear guideways on Y-axis providing best dynamic balance.

A/C-axis Rotary Table

- New Line.
- A/C-axis rotary encoder is standard
- ø500 mm (ø19.69") table size

Tool Magazine

- Absolute encoder ATC system provides stability and speed.
- The ATC Unit is controlled by an Inverter which prevents tool change speed from varying under different power supply frequency's.
- Tool change speed is programmable for heavy tools and probe.

Automatic Tool Magazine Door Design

- Driven by pneumatic cylinder.
- Prevent coolant and chips from entering tool magazine.

YCM In-House Design IDD PLUS Spindle

- Tool unclamping cushion extends spindle bearing life by protecting spindle bearing from tool unclamping force.
- Spindle cooling system (opt.) removes heat efficiently and minimizes thermal deformation.
- Ceramic bearings features low inertia mass, low centrifugal force, high rigidity and low coefficient of thermal deformation.
- High precision helical springs features dynamic balance and low vibration.



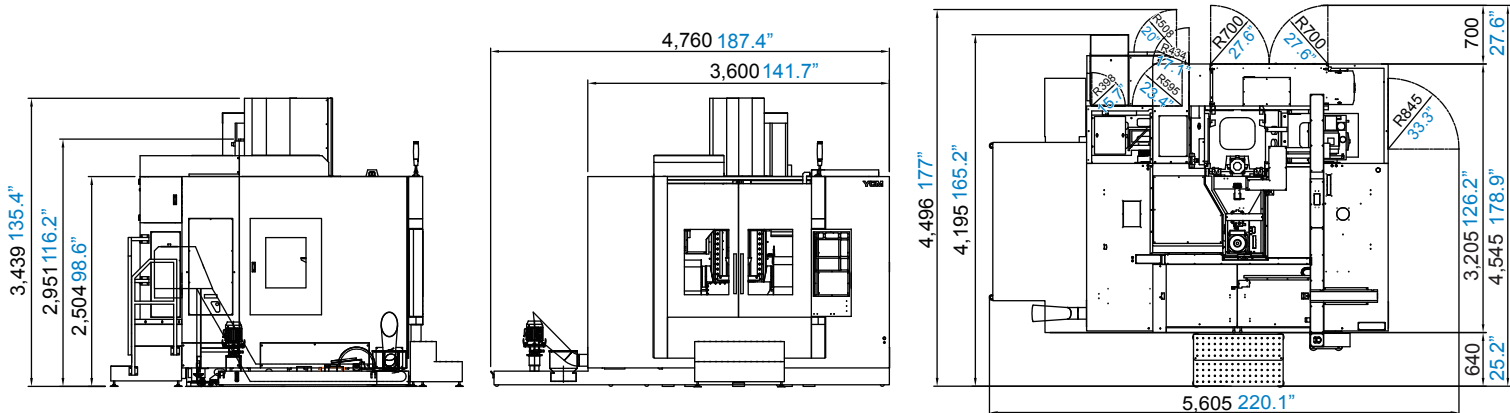
Cutting Demo

SPECIFICATIONS

NFX 500A	
SPINDLE	
Spindle Speed (opt.)	12,000 rpm (15,000 / 15,000 rpm)
Spindle Power (opt.)	22 kW (22 / 30 kW) 30 HP (30/40 HP)
Spindle Taper	BBT40
TRAVEL	
X-axis Travel	850 mm 33.5"
Y-axis Travel	762 mm 30"
Z-axis Travel	600 mm 23.6"
Distance Between Spindle Nose & Table Top	20~620 mm 0.79"~24.4"
TABLE	
Table Size/T-Slots	ø500 mm / 14 mm ø19.7" / 0.55"
Max. Load on Table (Vertical/)	500kg 1,102lb
Max. Load on Table (Horizontal)	500kg 1,102lb
A/C AXIS	
A-axis	150° (+30° / -120°)
C-axis	360°
A -Axis Feedrate	25 rpm
C-Axis Feedrate	33.3 rpm
A/C Axis Positioning Accuracy	10 sec.
A/C Axis Repeatability Accuracy	4 sec.
FEEDRATE	
Rapid Feedrate (X/Y/Z)	30 / 30 / 24 m/min. 1,181 / 1,181 / 945 ipm
Cutting Feedrate	1~20,000 mm/min. 0.04~787 ipm
ATC	
Tool Magazine Capacity (opt.)	48T (60T)
Max. Tool Weight (per piece)	6 kg 13.2 lb
Max.Tool Dimensions (w/o adjacent tools)	ø76 x 300 mm (ø125 x 300 mm) ø3" x 11.8" (ø4.92" x 11.8")
GENERAL	
Pneumatic Supplier	5.5k g/cm ² 78.2 psi
Power Consumption	57 kVA (65 kVA)
Machine Weight	11,000 kg 54,454 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.

DIMENSIONS Unit: mm inch



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STANDARD ACCESSORIES

- Tool Kit
- Work Lamp
- Pilot Lamp
- Safety Door
- Spindle Air Blast
- Spindle Air Seal
- Cutting Air Blast
- Spindle Cooling System
- Circular Coolant Nozzle
- Coolant Shower
- Oil Skimmer
- Coolant Gun
- Air Gun
- A/C-axis rotary encoder
- Central Lubrication System
- Penta-Chip Augers
- 45° Outlet Pipe (Penta-Chip Augers)
- Heat Exchanger for Electrical Cabinet
- Leveling Blocks and Bolts
- Complete Chip Enclosure (With Top Cover)
- Mechanical, Maintenance, Electrical and Operating Manuals
- Heavy Duty Coolant Pump
- CNC Control: FANUC 31i-MB5

OPTIONAL ACCESSORIES

- CE
- Automatic Door
- Foundation Bolts
- Chip Conveyor
- Quad-Chip Augers (With Left/Right-Hand Side Chip Conveyor)
- Straight Pipe (Penta-Chip Auger with Rear Side Chip Conveyor)
- A/C. Cooler for Electrical Cabinet
- Auto Tool Measurement System
- Oil-mist Coolant System
- Oil-mist Collector
- Automatic Power Off
- CNC Control: FANUC MXP-200FB