



NFP 66A

High Speed High Precision Die / Mold Machining Center



Reinforced Body Structure

- FEM analysis strengthens the structure of the machine to provide the best cutting rigidity.
- Box-shape and double column structure design reduce thermal deformation.
- Less Z-axis overhang ensure optimal machine stability.

Built-in Motorized Spindle

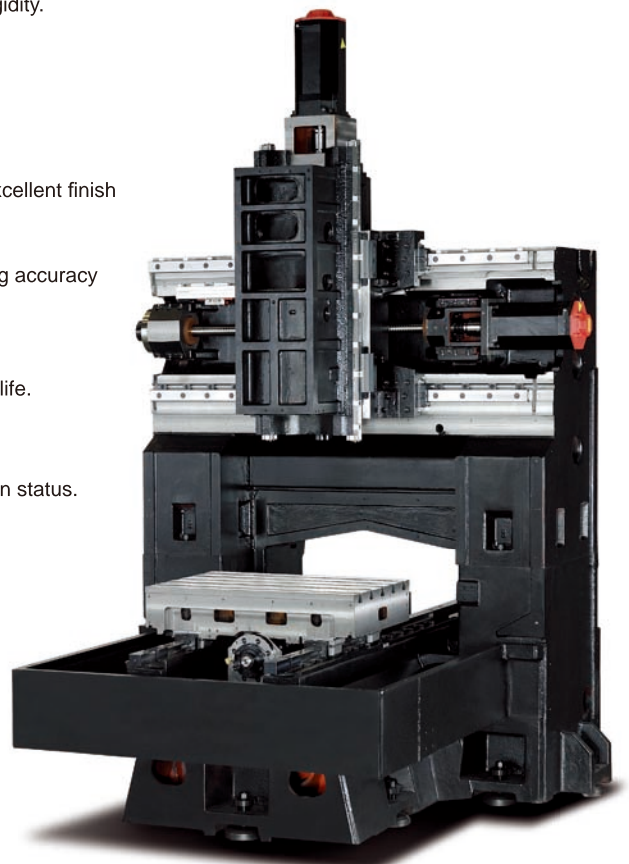
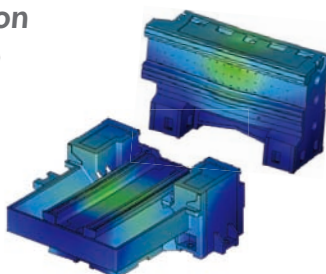
- Low vibration and optimal head isolation reduces thermal deformation resulting in excellent finish while maximizing both spindle and tool life under hard milling conditions.
- Up to 40,000 rpm spindle speed .
- Double contact spindle taper ensures heavy-duty cutting performance and machining accuracy
- Highly reliable helical disc spring design for better spindle balance and life.
- Rear bearing floating design decreases thermal deformation at high speed.
- Design for dynamic balance of spindle provides ultimate cutting rigidity.
- Micro oil-air lubrication system minimizes thermal deformation and prolongs spindle life.

High Precision Axial Movement

- The million-pulse/rev high-resolution encoders in all axes enable the utmost precision status.
- The enlarged roller bearing linear motion guides perform extreme rigidity.
- High precision ballscrews ensure high speed high precision axial movements.

Spindle Thermal Compensation

- Built-in STC (spindle thermal compensation) function, control deviation under 5 μ m.



SPECIFICATIONS

NFP 66A	
SPINDLE	
Spindle Speed (opt.)	24,000 rpm (40,000 rpm)
Spindle Power (opt.)	22.5 kW 30 HP (7.5kW 10.1HP)
Spindle Taper (opt.)	HSK A63 (HSK E40)
TRAVEL	
X-axis Travel	660 mm 26"
Y-axis Travel	510 mm 20.1"
Z-axis Travel	400 mm 15.8"
Distance Between Spindle Nose & Table Top	150~550 mm 5.9"~21.7"
TABLE	
Table Size	800 x 510 mm 31.5" x 20.1"
No. T-slots x Size x Pitch	5 x 18 mm x 100 mm 5 x 0.71" x 3.94"
Max. Load on Table	500 kg 1,120 lb
FEEDRATE	
Rapid Feedrate (X/Y/Z)	20 / 20 / 20 m/min. 787 / 787 / 787 ipm
Cutting Feedrate	1~20,000 mm/min. 0.04~787 ipm
ATC	
Tool Magazine Capacity	24T
Max. Tool Weight (per piece)	6 kg 13 lb
Max. Tool Dimensions (w/o Adjacent Tool)	ø76 x 250 mm ø3" x 9.84"
Tool Change Method	Arm Type
Tool Selection Method	Random
GENERAL	
Pneumatic Supplier	5.5 kg/cm ² 78.2 psi
Power Consumption (Transformer)	80 kVA (80 kVA) / 52 kVA (65 kVA)
Machine Weight	8,000 kg 17,637 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

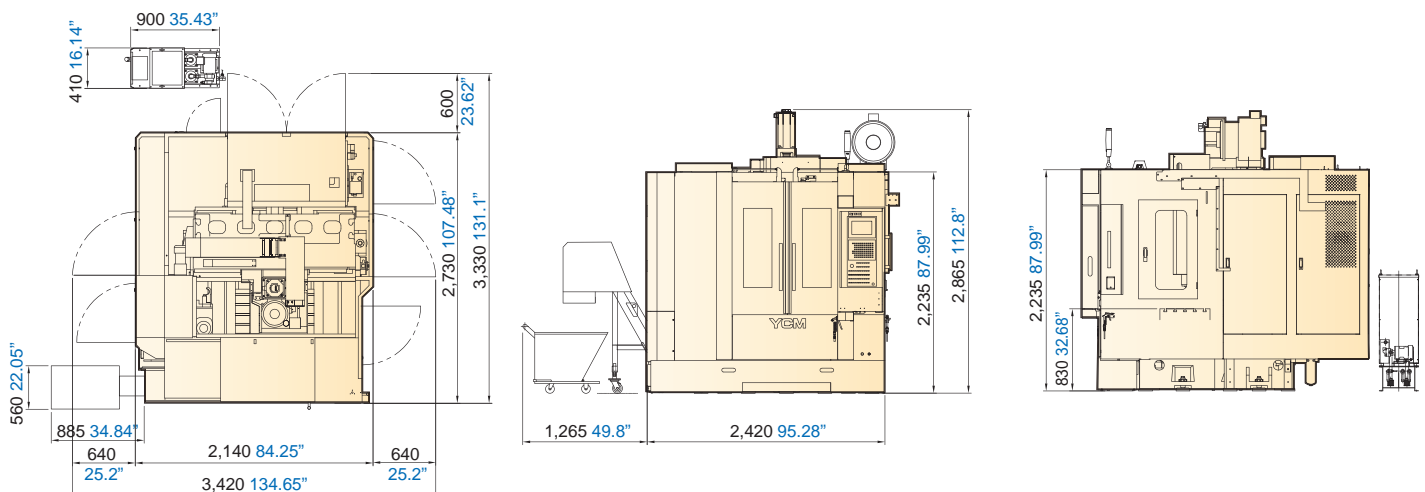
- Tool Kit
- Work Lamp
- Pilot Lamp
- Circular Coolant Nozzle
- Air Gun
- Coolant Equipment System
- X/Y/Z Nuts Cooling
- Cutting Air Blast
- Leveling Blocks and Bolts
- Central Lubrication System
- Automatic Lubrication
- Heat Exchanger for Electrical Cabinet
- Full Chip Enclosure
- Oil Skimmer
- Dual Screw Type Chip Augers
- Mechanical, Electrical & Operating Manuals
- Rigid Tapping
- Foundation Bolts
- Optical Scale
- Oil-air Lubrication System
- STC Plus
- Coolant Gun
- Oil-mist Collector
- Safety door
- CNC Control : MXP-200FC
- Spindle Cooling System
- Automatic Power Off

OPTIONAL ACCESSORIES

- Chip Conveyor
- A/C. Cooler for Electrical Cabinet
- Workpiece Measurement System
- Auto Tool Length Measurement System
- 4th Axis Rotary Table
- Oil-mist Coolant System
- Automatic Door
- Heavy Duty Coolant Pump
- CNC Control : MXP-200FB

DIMENSIONS

Unit: mm inch



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112016-E3-1000