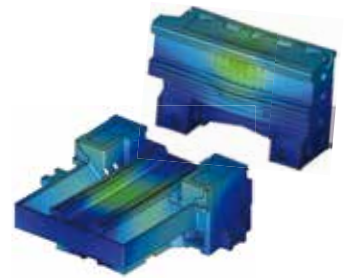


High Speed High Precision Die / Mold Vertical Machining Center

## NFP 66A



### 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.
- The long travel of X-axis lies on the top of the base, where the saddle moves along the full stroke.

### Built-in Motorized Spindle

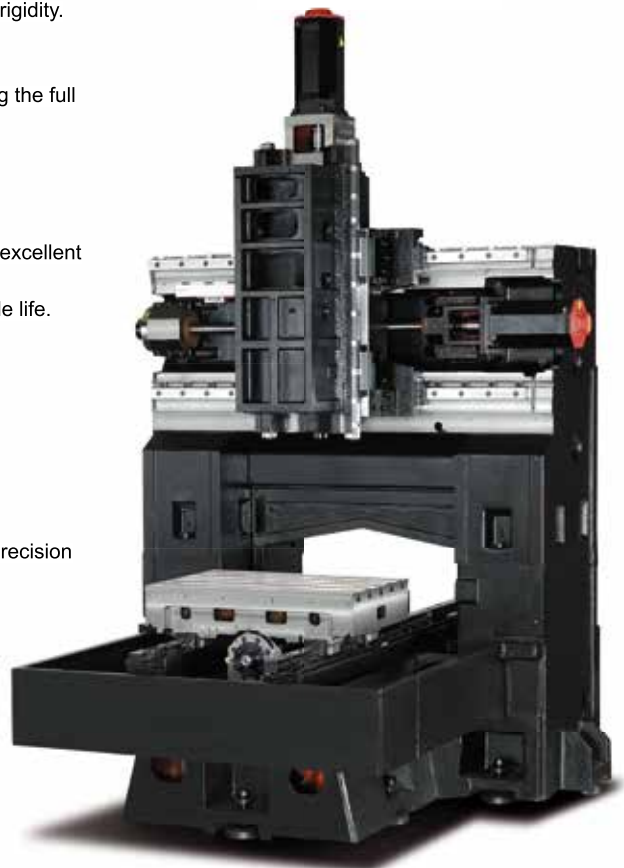
- Low vibration and optimal head isolation reduces thermal deformation resulting in excellent finish while maximizing both spindle and tool life under hard milling conditions.
- Micro oil-air lubrication system minimizes thermal deformation and prolongs spindle life.
- Up to 24,000 rpm spindle speed .
- Rear bearing floating design decreases thermal deformation at high speed.
- Design for dynamic balance of spindle provides ultimate cutting rigidity.
- Highly reliable helical disc spring design for better spindle balance and life.

### High Precision Axial Movement

- The four million-pulse/rev high-resolution encoders in all axes enable the utmost precision status.
- The enlarged roller bearing linear motion guides perform extreme rigidity.

### Complete Solutions against Thermal Deformati

- Minimizes thermal deformation and prolongs spindle life.
- The cooling system on bearing housing, motor seat, and ballscrews, plus optical scale to achieve high-speed high precision axial movements.
- Equipped with an adaptive spindle oil cooling control system to achieve high stability and thermal accuracy



## SPECIFICATIONS

NFP 66A	
<b>SPINDLE</b>	
Spindle Speed (opt.)	24,000 rpm (40,000 rpm)
Spindle Power (opt.)	22.5 kW <b>30 HP</b> (7.5kW <b>10.1HP</b> )
Spindle Taper (opt.)	HSK A63 (HSK E40)
<b>TRAVEL</b>	
X-axis Travel	660 mm <b>26"</b>
Y-axis Travel	510 mm <b>20.1"</b>
Z-axis Travel	400 mm <b>15.8"</b>
Distance Between Spindle Nose & Table Top	150~550 mm <b>5.9"~21.7"</b>
<b>TABLE</b>	
Table Size	800 x 510 mm <b>31.5" x 20.1"</b>
No. T-slots x Size x Pitch	5 x 18 mm x 100 mm <b>5 x 0.71" x 3.94"</b>
Max. Load on Table	500 kg <b>1,120 lb</b>
<b>FEEDRATE</b>	
Rapid Feedrate (X/Y/Z)	20 / 20 / 20 m/min. <b>787 / 787 / 787 ipm</b>
Cutting Feedrate	1~20,000 mm/min. <b>0.04~787 ipm</b>
<b>ATC</b>	
Tool Magazine Capacity	24T
Max. Tool Weight (per piece)	6 kg <b>13.2 lb</b>
Max. Tool Dimensions (w/o Adjacent Tool)	ø76 x 250 mm <b>ø3" x 9.84"</b>
Tool Change Method	Arm Type
Tool Selection Method	Random
<b>GENERAL</b>	
Pneumatic Supplier	5.5 kg/cm <sup>2</sup> <b>78.2 psi</b>
Machine Weight	8,000 kg <b>17,637 lb</b>

## STANDARD ACCESSORIES

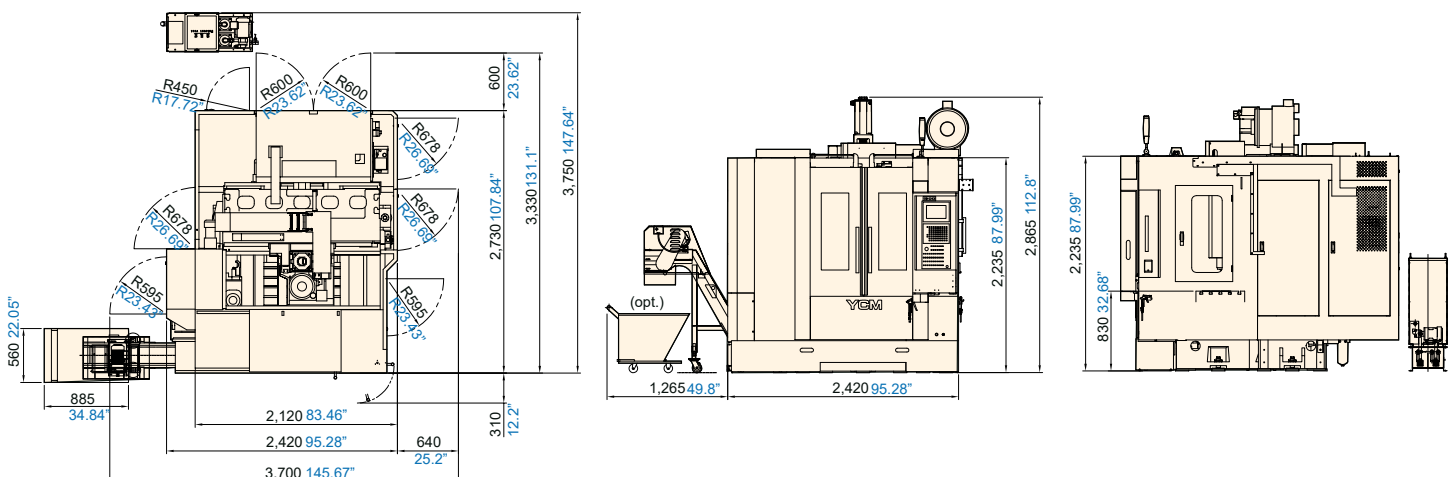
- Tool Kit
- Work Lamp
- Pilot Lamp
- Circular Coolant Nozzle
- Air Gun
- Coolant Equipment System
- X/Y/Z Nuts Cooling
- Cutting Air Blast
- Leveling Blocks and Bolts
- Central Lubrication System
- Automatic Lubrication
- Heat Exchanger for Electrical Cabinet
- Full Chip Enclosure
- Oil Skimmer
- Dual Screw Type Chip Augers
- Mechanical, Electrical & Operating Manuals
- Rigid Tapping
- Foundation Bolts
- Optical Scale
- Oil-air Lubrication System
- 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

Note: Above specifications may vary depending on the machine and the surrounding environment. The manufacturer reserves the right to modify the design, specifications, mechanisms, etc., to improve the performance of the machine without notice. The test data provided in this catalog is performed under specific test procedures and environmental conditions.

## DIMENSIONS Unit: mm inch



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