



**Ningbo Maxtors CNC Machinery Co.,Ltd.**  
Add: East Maoyu Bridge,Liyang Town,Ninghai,Ningbo,Zhejiang,China.  
Tel: 0086-139 6838 1993 Fax: 0086-574-65105718  
E-mail: sales@maxtorscnc.com Website: www.maxtorscnc.com

# Vertical Type CNC Milling Machine/Machining Center



**Ningbo Maxtors CNC Machinery Co.,Ltd.** is located in the beautiful coastal city-Ninghai, on the eastern coast of Zhejiang Province, between Xiangshan Port and Sanmen Bay, where the Tiantai and Siming Mountains meet, a county of Ningbo, one of the first batch of coastal open areas city which is the Municipalities with Independent Planning Status under the National Social and Economic Development approved by State Council. Maxtors CNC Founded in 1996, is located in Ningbo south coastal new region,Ninghai County. Now owning two High-quality brands “Yiming CNC” and “Maxtors Precision Machine”. Cover an area of 12,000 square meters, Has production base of producing more than 1,500 sets CNC machines per year, Mainly R & D and produce gantry machining center, mold high-speed milling machine, CNC engraving and milling machine, vertical machining center,drilling and tapping center, ceramic engraving machine and graphite machining machine and so on. Since 2013, started to develop and produce 5-axis simultaneous machining centers, 5-axis (3+2) machining centers, maintains long-term exchanges and cooperation with FANUC, Siemens, Heidenhain and others Machines CNC Controller & components suppliers. The 5-axis machining centers we produced are widely used in manufacturing of mold,aerospace, Ships and boats,and other fields, widely praised by customers at home and abroad.

Our company have passed the ISO-9001-2000 quality system certification, full range of our machines designed according to international advanced concept, strict effective finite element analysis of various types of parts and components, an effective three-dimensional detection of finished parts of fine machining to ensure its dimensional accuracy; All products use international renowned brand parts and components to ensure product quality and accuracy. Our company has 18 branch offices in China, with perfect pre-sales and after-sales service systems to ensure the normal use of customers. Our products have passed CE certification and the products are exported to Southeast Asia,Europe and others countries, Quality is the foundation for business survival. Integrity is base for business development. Customer satisfaction is the driving force for the company's advancement. Maxtors abides by the business philosophy of “Meticulous Creation & Whole-hearted Service”, and development attitude of “Strives to win the market by quality, Towards to the world by brand” ,committed to producing world-class CNC machines.



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# COMPANY PROFILE

Q U E S T F O R E X C E L L E N C E



## OUR STRENGTH

After more than 20 years development, Nowsdays "MAXTORS" has been the TOP quality machines' signal in China. MAXTORS also has been recognized as Chinese Famous Brand, our products has passed CE Certificate, enjoyed a good reputation from our customers, if have demand, welcome you at any time. Service for you 365×24h.





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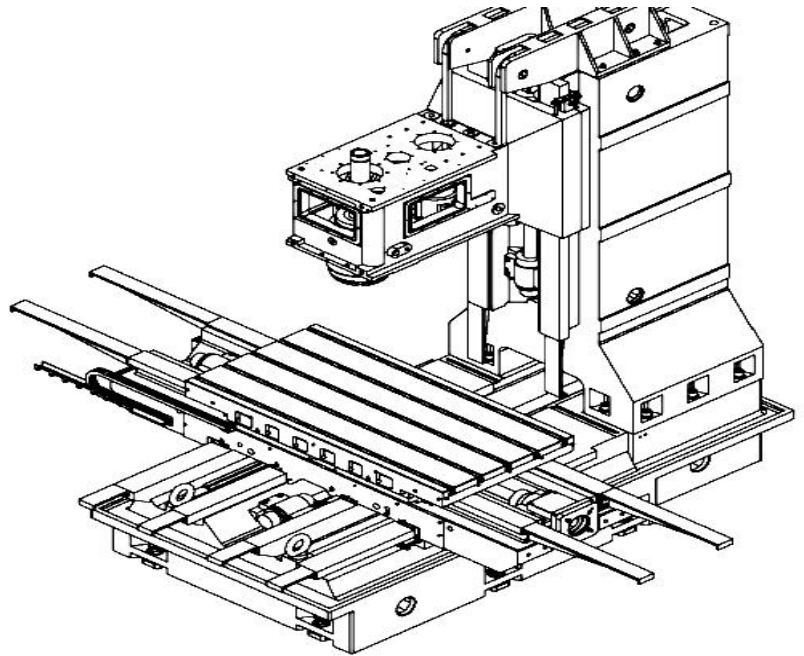
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## Y Axis Four BOX Guide Rails

**Excellent Design to ensure high rigidity of Machine Tool**

**(YMC-1370V~YMC-2511V)**

Linear Rails Optional



- ☐ The machines have assimilated advanced American and Japanese technology and manufacturing standard ,and ANSYS and NANSTRAN finite element analysis are adopted on critical parts, improving and optimizing overall machine structure.
- ☐ With the adoption of four-guide rails in the machine , the machines have outstanding rigidity and stability .main parts are made of Meehanite casting iron with excellent heat treatment and the material is in stable state and not deforming,hard guide rail are treated with ultrasonic frequency quenching and precise grinding. upper surface guide rails are covered with wear-resistant material for long-term stable accuracy,also Linear Rails optional for high speed high precision machining..
- ☐The particular design 人 (arch) shape column and servo motor set backward on Y axis have built up top rigidity and convenient operation.
- ☐ The transmission of triple axes have adopted C3 grade precise ball screw. The positioning accuracy of machine is ensured with laser-based measuring ,bar ball test and  $\mu$  class bidirectional pitch compensation.
- ☐High speed precise spindle is driven by high speed silencing belt with gear,secondary dynamic balance is done on spindle ,high rotary accuracy with low vibration ,so that can be high quality surface processing;
- ☐German/Italy two speed spindle gearbox and Taiwan two-speed inner-gear spindle gear box are optional, to enhance spindle cutting torque for heavy cutting.
- ☐The machine can be equipped with multi-axial boring.drilling & tapping spindle box to achieve effective processing with multi-tools and multi-spindle, which reflect innovative integration of machining center and combined machines with advanced technology.
- ☐ 4th and 5th axis rotary table and famous CNC Controller are optional ,which can achieve 5-axis simultaneous machining with high performance.



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| Items                   | Unit                 | YMC-1370V        | YMC-1580V        | YMC-1690V        | YMC-1890V        | YMC-2011V        | YMC-2511V        |
|-------------------------|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Table                   |                      |                  |                  |                  |                  |                  |                  |
| Table Size              | mm                   | 1400×710         | 1700×800         | 1800×900         | 2000×900         | 2300×1100        | 2700×1100        |
| Max.Loading             | KG                   | 1000             | 1500             | 1500             | 1700             | 2500             | 2500             |
| T-Slot                  | mm                   | 5-18×125         | 5-22×135         | 5-22×150         | 5-22×150         | 5-22×150         | 5-22×150         |
| Travel                  |                      |                  |                  |                  |                  |                  |                  |
| X/Y/Z Travel            | mm                   | 1300/700/650     | 1500/800/700     | 1600/900/700     | 1800/900/700     | 2000/1100/800    | 2500/1100/800    |
| Spindle nose to table   | mm                   | 100~750          | 150~850          | 150~850          | 150~850          | 250~1050         | 250~1050         |
| Spindle                 |                      |                  |                  |                  |                  |                  |                  |
| Spindle taper           |                      | 7/24 Taper No.50 | 7/24 Taper No.50 | 7/24 Taper No.50 | 7/24 Taper No.50 | 7/24 Taper No.50 | 7/24 Taper No.50 |
| Spindle speed           | rpm                  | 6000             | 6000             | 6000             | 6000             | 6000             | 6000             |
| Spindle motor power     | KW                   | 11/15            | 15/18.5          | 15/18.5          | 15/18.5          | 15/18.5          | 15/18.5          |
| Feed                    |                      |                  |                  |                  |                  |                  |                  |
| Rapid Feedrate(X/Y/Z)   | m/min                | 15/15/15         | 15/15/15         | 15/15/15         | 15/15/15         | 12/12/12         | 12/12/12         |
| Cutting Feedrate(X/Y/Z) | m/min                | 7/7/7            | 7/7/7            | 7/7/7            | 7/7/7            | 7/7/7            | 7/7/7            |
| ATC(Opt.)               |                      |                  |                  |                  |                  |                  |                  |
| ATC Type                |                      | Armless/Arm      | Armless/Arm      | Armless/Arm      | Armless/Arm      | Armless/Arm      | Armless/Arm      |
| No. of tools            | pcs                  | 12/16/20/24      | 12/16/20/24      | 12/16/20/24      | 12/16/20/24      | 12/16/20/24      | 12/16/20/24      |
| Tools Size(Full Tools)  | mm                   | Φ110/300         | Φ110/300         | Φ110/300         | Φ110/300         | Φ110/300         | Φ110/300         |
| Max.Tool Weight         | KG                   | 16               | 16               | 16               | 16               | 16               | 16               |
| Accuracy                |                      |                  |                  |                  |                  |                  |                  |
| Positioning Accuracy    | mm                   | ±0.008/300       | ±0.008/300       | ±0.008/300       | ±0.008/300       | ±0.008/300       | ±0.008/300       |
| Re-Positioning Accuracy | mm                   | ±0.005/300       | ±0.005/300       | ±0.005/300       | ±0.005/300       | ±0.005/300       | ±0.005/300       |
| Others                  |                      |                  |                  |                  |                  |                  |                  |
| Air Pressure            | kgf/c m <sup>2</sup> | ≥6               | ≥6               | ≥6               | ≥6               | ≥6               | ≥6               |
| Footprint               | mm                   | 3500×2800        | 3900×2900        | 4260×3545        | 4800×3400        | 5700×4100        | 6500×4100        |
| Machine Height          | mm                   | 3800             | 3900             | 3200             | 3300             | 3300             | 3300             |
| G.W.                    | KG                   | 9500             | 11000            | 14000            | 15000            | 19000            | 20000            |



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### Standard Configuration

- Vertical Type
- BT50 6000rpm Spindle
- Spindle Oil Chiller
- Spindle coolant nozzle system
- XYZ Axis Box guide rails
- XYZ Axis Servo Motor
- Telescopic covers for 3 axis
- Fully Enclosed Splash Guard
- Electrical Cabinet Heat Exchanger
- Data transfer interface
- Automatic lubrication system
- Cutting Coolant system
- LED working lamp
- End of program light
- Portable Electronic handwheel (MPG)
- Tool box
- Leveling bolts and blocks
- Cutting air blast system
- CNC Manual & Operation Manual
- Chip flush coolant system
- Water Tank
- Safety door
- Transformer(According to Local Voltage)
- Mitsubishi CNC Controller

### Optional Configuration

- BT40/ISO/HAK-A63 10000~30000rpm Spindle
- BT50 Spindle with Gear/Gearbox
- Coolant Through Spindle (CTS)
- ATC/Tool Magazine system
- Electrical Cabinet AC
- Screw type Chip Conveyor system
- Chain type Chip Conveyor system
- The 4th axis rotary table
- The 5th axis Tilting & Rotary table
- Linear Scale
- Auto.Tool Measuring system
- Auto.Workpiece Measuring system
- CE Mark
- Machine Column Heighten
- LNC/Syntec CNC Controller
- FANUC/Siemens/Heidenhain CNC Controller
- Others Options as requested

5 axis different sizes



**Maxtors**

## Main Parts

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| NO. | ITEMS                            | BRAND             | ORIGIN               |
|-----|----------------------------------|-------------------|----------------------|
| 1   | CNC Controller                   | MITSUBISHI        | Japan                |
| 2   | Spindle Motor                    | MITSUBISHI        | Japan                |
| 3   | X/Y/Z Axis Motor and Drive       | MITSUBISHI        | Japan                |
| 4   | Spindle Bearing                  | NSK/FAG/SKF       | Japan/Germany/Sweden |
| 5   | Linear Guideway                  | HIWIN/PMI         | Taiwan               |
| 6   | Ballscrew                        | HIWIN/PMI         | Taiwan               |
| 7   | Spindle                          | KENTURN/ROYAL     | Taiwan               |
| 8   | Precision Lock Nut               | YSF               | Taiwan               |
| 9   | Spindle Oil Cooler               | RUCOL             | China                |
| 10  | Heat Exchanger                   | RUCOL             | China                |
| 11  | Lubricator System                | BIJUR/HERG/BAOTN  | China                |
| 12  | Pneumatic System major component | SNTC/AirTAC       | China/Taiwan         |
| 13  | Electric System major component  | Schneider/Siemens | France/Germany       |
| 14  | Cutting Fluid Pump               | Luikar            | China                |
| 15  | MPG(Hand Wheel)                  | TOSOKU            | Japan                |
| 16  | Outer Guard Cover                | MAXTORS           | China                |

## Options Parts

| NO. | ITEMS   | BRAND         | Y/N                      |
|-----|---|---------------|--------------------------|
| 1   | ATC   | SANJET/AIMACH | <input type="checkbox"/> |
| 2   | Screw Type Chip Conveyor                            | MAXTORS       | <input type="checkbox"/> |
| 3   | Chain Type Chip Conveyor                            | MAXTORS       | <input type="checkbox"/> |
| 4   | Tool Setter(Automatic Tool Length Measuring System) | MAXTORS       | <input type="checkbox"/> |
|     |   |               |                          |

**Note:** We can adjust the brand According to the supply situation , but not less than the Quality of original brand

### Quality Assurance

Before Leaving the plant,all Our CNC Machine is subjected to more than 100 quality-assurance test,These tests provide a certified paper trail of quality for every component throught the entire assembly process.After assembly all Our CNC Machines are tested for 24 hours of actual running time to assure quality is built into every machine we make,Our assurance of quality follows every machine from the shipping from our plant,to the arrival and installation at yours.



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Carefully Test Ensure Good Quality

### Guarantee system for products quality

#### Scraping treatment

Delicate scraping treatment when assembling has improved structural rigidity and stability, which has further enhanced processing accuracy.



#### Precise adjustment

Products inspection can resort to unit inspection, laser inspection for positioning accuracy, rotary spindle positioning accuracy inspection according to all kinds of international standards, such as ISO, DIN, JIS, CNS. dimensional laser accuracy measurements can be used for test: verticality, squareness, circularity test.



#### Precision inspection

In order to erase accumulative error, precise auxiliary instruments are adopted in assembling, ensuring the best accuracy achieved in each stage are within standard limit.



### Test



LASER INSPECTION



DYNAMIC BAL



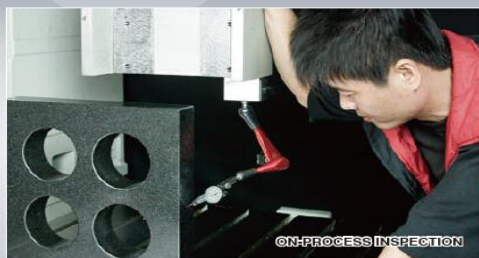
SPINDLE THERMAL

EXTENSION TESTING



NASA TEST FOR MACHINE  
AND CONTROL ACCURACY

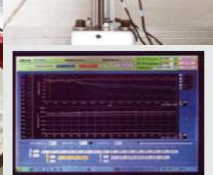
### Quality



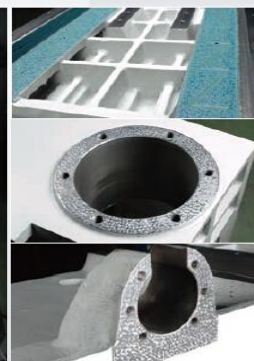
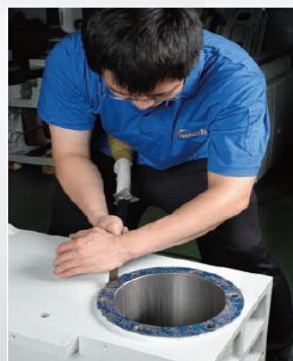
ON-PROCESS INSPECTION



INSPECTING PA  
BALL SCREW S



SPINDLE DYNAMIC  
BALANCE TESTING



ON-PROCESS INSPECTION



INSPECTING S  
OF LINE



SPINDLE DYNAMIC  
BALANCE TESTING



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## High Precision CNC Equipments



**KURAKI** Horizontal Boring Miller



**OKUMA** 5-Faces Machining Center

**Machine tool quality guaranteed by  
3-axis laser measuring& ball bar testing**



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# Honors & Partners



CE(GT Series)

CE(YMC Series)

CQC

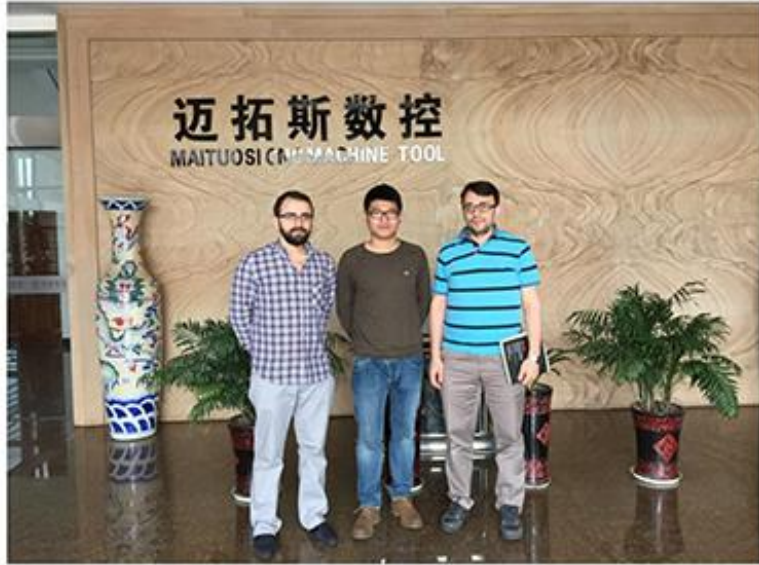
Patent Certificate

## PARTNER BRAND





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Customers



Training

**Warmly Note:**

Above design,specification and all information is only for reference.  
We reserve the right to change without prior notice.