

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.

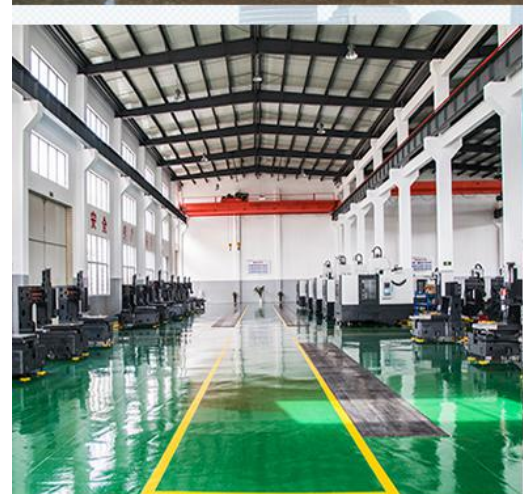
COMPANY PROFILE

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.

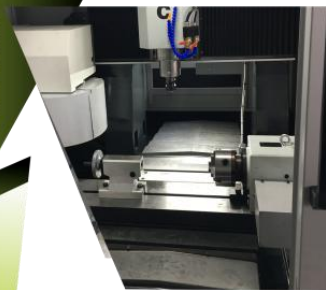




OUR KNOW-HOW FOR YOUR BUSINESS

Technologie & Know-how

We think and plan the future already now. A growing in-house R&D department with experienced engineers which develop our machine concepts are our warrantor that we are prepared for the upcoming trends of the machine tools business. We are listening to the market. Flexibility in the matter of CNC controllers is for us a must, here we only go with the market leaders. Without any compromise!



Machine structure and components

Machine structure

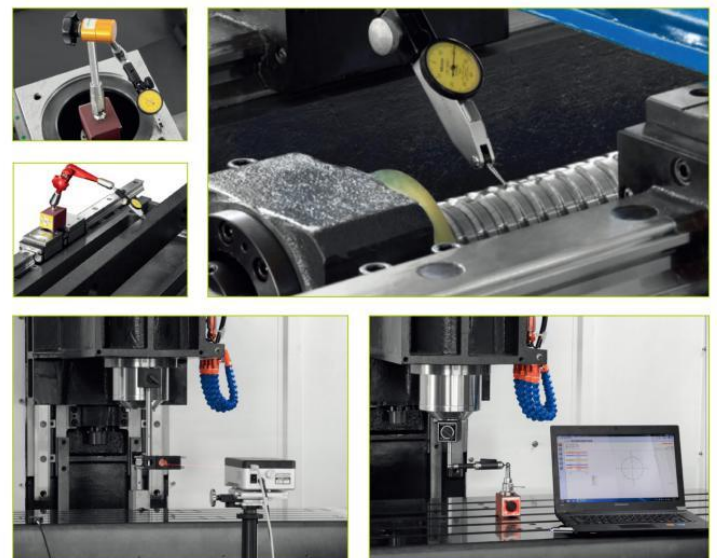


High quality machine components

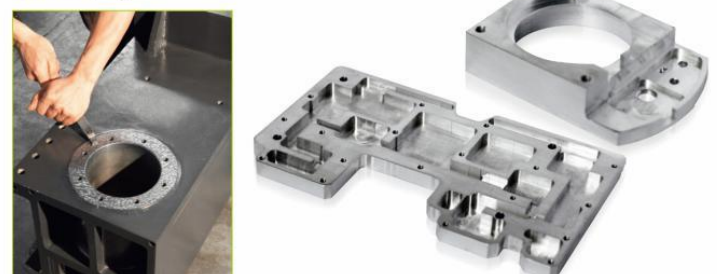


Quality management

Measurements control during the producing

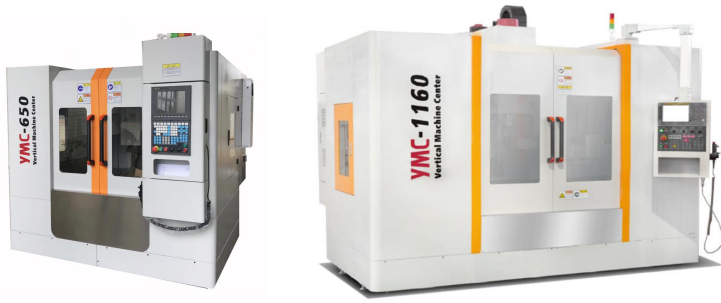


Hand scraping



LINEAR GUIDE RAILS VERTICAL MACHINING CENTER

Items	Unit	YMC-650V(BT30)	YMC-650V(BT40)	YMC-855V	YMC-1160V	YMC-1270V	YMC-1470V
Table							
Table Size	mm	620×420	620×420	1000×550	1200×600	1400×700	1500×710
Max.Loading	KG	400	400	500	800	900	1000
T-Slot	mm	3-18×135	3-18×135	5-18×120	5-18×120	5-18×120	5-18×125
Travel							
X/Y/Z Travel	mm	650/400/400	650/400/400	800/550/550	1100/600/600	1200/700/650	1400/700/700
Spindle nose to table	mm	100~500	100~500	140~690	150~750	110~760	100~800
Spindle							
Spindle taper		7/24 Taper No.30	7/24 Taper No.40	7/24 Taper No.40	7/24 Taper No.40	7/24 Taper No.40	7/24 Taper No.40
Spindle speed	rpm	10000	8000	8000	8000	8000	8000
Spindle motor power	KW	3.7/5.5	5.5/7.5	7.5/11	7.5/11	7.5/11	7.5/11
Feed							
Rapid Feedrate(X/Y/Z)	m/min	30/30/30	30/30/30	30/30/30	30/30/30	20/20/15	20/20/15
Cutting Feedrate(X/Y/Z)	m/min	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10
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	Φ50/260	Φ80/300	Φ80/300	Φ80/300	Φ80/300	Φ80/300
Max.Tool Weight	KG	3	8	8	8	8	8
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							
Footprint	mm	2400×2000	2400×2000	2700×2200	3100×2300	3600×3000	3900×3000
Machine Height	mm	2500	2500	2700	2900	3000	3000
G.W.	KG	4000	4000	5500	6300	8000	10000



Standard Configuration

- Vertical Type
- BT40 8000rpm Spindle
(YMC-650 BT30 10000RPM)
- Spindle Oil Cooler
- Spindle coolant nozzle system
- XYZ Axis Linear 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)
- 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

- BT/ISO/HSK-A63 10000~30000rpm Spindle
- 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
- Machine Column Heighten
- LNC/Syntec CNC Controller
- FANUC/Siemens/Heidenhain CNC Controller
- Others Options as requested

Vertical 4 axis & 5 axis solutions optional



4th axis, different sizes



5th axis, different sizes





Maxtors

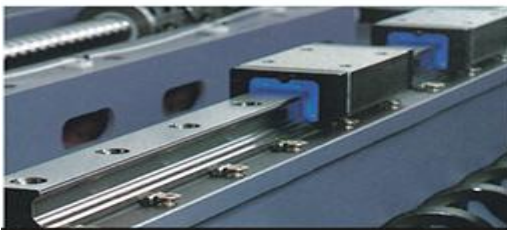
Maxtors CNC

Add: East Maoyu Bridge, Liyang Town, Ninghai, Ningbo, Zhejiang, China.

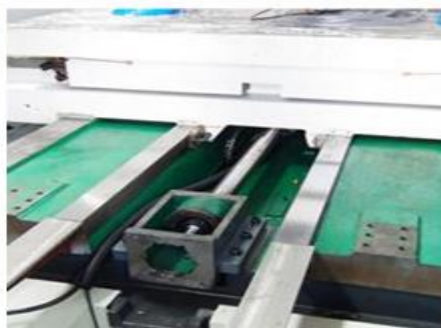
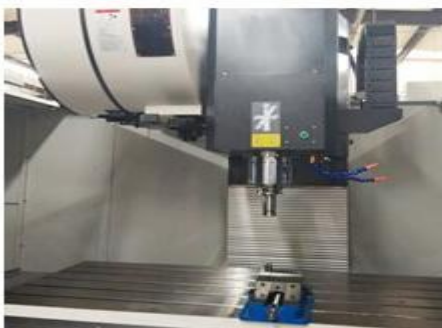
Tel: 0086-139 6838 1993 Fax: 0086-574-65105718

E-mail: sales@maxtorscnc.com Website: www.maxtorscnc.com

VMC Series



- ① High-rigid and high precise slide guideways use well-known brands linear track with characteristics of zero-clearance and all-round weight-bearing capacity, and the linear track is by far the better than the hard track in terms of accuracy and speed, each linear track is independent of self-lubrication.
- ② The spindle head is assembled by P4 grade high precision NSK ,FAG brand bearing.
The spindle taper go through high precision grinding, ensure the spindle taper and Tool Shank have 75% surface contact ,effectively improve their coordination ,enable the spindle head not to cause vibration when running cutting at various speed .The weight-resistant spring can ensure that the cutters do not cause shock during heavy-duty cutting ,effectively improve the cutter life and machining accuracy on the surface of work piece.
- ③ Two end pre-tension ball bearing screw
X、Y、Z axis driven by C3 grade ball bearing screw have the advantages of high rigidity, high precision, high load and low friction. transmission ration is up to above 95% ,and can effectively reduce thermal expansive error which caused from the state of machine operation and machine non-operation.
- ④ The full supporting by high strength meehanite casting iron machine body and well-ribs makes the shock-absorbing ability ten times higher than that of normal steel material. the casting iron with inner ribs have high performance of shock-resistance and anti-torque. With above structure, the machine has occupied small space and high pressing accuracy and multi-function.



Rotary Table



CNC Rotary Table is controlled by Machine CNC system, one time clamping can realize the machining of multi-surface machining and complex Angle workpiece. Reduce clamping time, and improve geometric precision and production efficiency of the relevant dimensions.

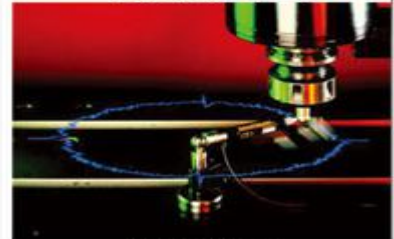
3 Drive Axis



3 axis AC servo motor adopts the coupling & ball screw drive directly, eliminating the transmission gap.



VDI 3 Axis Laser



Circle Test

5 Axis Opt.



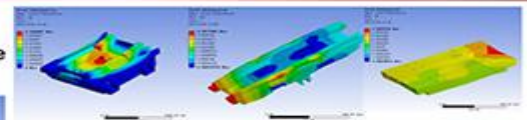
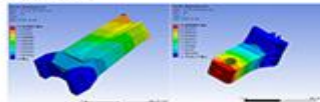
CTS System



Coolant Through Spindle system, high pressure cooling fluid directly sent to the tool cutting edge cooling blade, Particularly appropriate for hole especially for deep hole and blind hole processing, not only improve the tool service life and the production efficiency, also high pressure cooling liquid helps to remove the chip and improve the surface quality

Machine body FEA

- ⊙ Computer optimal design guarantee integral rigidity with compact structure
- ⊙ All casting pass finite-element analysis (FEA) test, every part carrying capability is under reasonable scope
- ⊙ Rational design to ensure rigidity
- ⊙ Finite element analysis (FEA)
- ⊙ Guarantee casting mechanical property



Good Drive System.

- ⊙ Famous brand Linear guide rails can fast feeding.
- ⊙ Famous brand ballscrew, are used direct drive system and prestretching with preload. This kind of design guarantee dynamic rigidity and increase positioning accuracy.

Excellent Casting to ensure the Machine Quality

- ⊙ Resin sand casting by aging treatment to ensure the casting Non-deformation.
- ⊙ Casting machining steps: Rough machining-First aging treatment-Second rough Machining- Second aging treatment-Semi finishing-Finish machining



Spindle speed can choose.

- ⊙ Spindle can be different speed as your requested.
i.e.: 10000rpm, 12000rpm, 15000rpm, 18000rpm, 24000rpm, 30000rpm.
and etc. to meet your different machining requirements.

Main Parts

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	Taiwan
8	Precision Lock Nut	YSF	Taiwan
9	Spindle Oil Cooler	RUCOL	China
10	Heat Exchanger	RUCOL	China
11	Lubricator System	BAOTN/HERG	China
12	Pneumatic System major component	SNTC	China
13	Electric System major component	Schneider	France
14	Cutting Fluid Pump	Luikar	China
15	MPG(Hand Wheel)	TOSOKU/NEMICON	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.



Maxtors

Maxtors CNC

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

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.



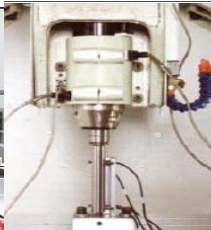
Test



LASER INSPECTION



DYNAMIC BAL



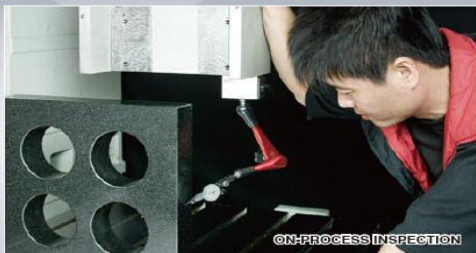
SPINDLE THERMAL
EXTENSION TESTING



NASA TEST FOR MACHINE
AND CONTROL ACCURACY



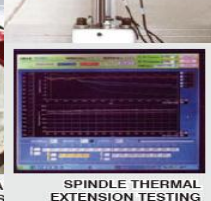
Quality



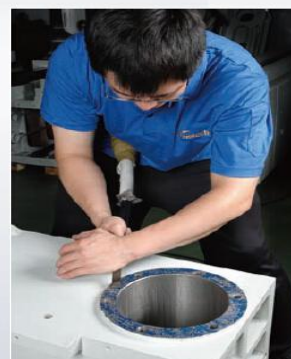
ON-PROCESS INSPECTION



INSPECTING PA
BALL SCREW S



SPINDLE DYNAMIC
BALANCE TESTING



ON-PROCESS INSPECTION



INSPECTING S
OF LINE

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**



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 through out 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.

Optional Accessories

- ☐ Workpiece Measurement System
- ☐ RENISHAW OMP 40/60
- ☐ BLUM TC50
- ☐ HEIDENHAIN TS640
- ☐ Tool Measuring System
- ☐ RENISHAW TS27R
- ☐ BLUM Z3D
- ☐ HEIDENHAIN TT140
- ☐ Laser Tool Measuring System
- ☐ RENISHAW NC-4 ☐ BLUM NT
- ☐ Coolant Through Spindle
- ☐ 20 BAR ☐ 50 BAR ☐ 60 BAR
- ☐ Optical Linear Scale
- ☐ Oil/Fluid Separation Device
- ☐ Built-in Coolant Nozzles
- ☐ Spindle Oil Cooler System
- ☐ 4th Axis Rotary Table
- ☐ 4/5th Axis Rotary Table
- ☐ HEIDENHAIN Optical Encoder
- ☐ Germany ZF Gearbox
- ☐ Built-in Heavy Duty Gear Box
- ☐ Transformer
- ☐ Link Chain Type Chip Conveyor
- ☐ Screw Type Chip Conveyor
- ☐ Flushing System + Water Gun



RENISHAW Workpiece Measuring System



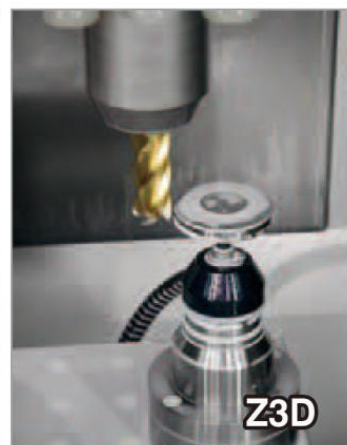
BLUM Workpiece Measuring System



HEIDENHAIN Workpiece Measuring System



RENISHAW Tool Measuring System



BLUM Tool Measuring System



HEIDENHAIN Tool Measuring System



Optical Linear Scale



Oil/Fluid Separation Device



Built-in Coolant Nozzles



Spindle Oil Cooler



4th Axis Rotary Table



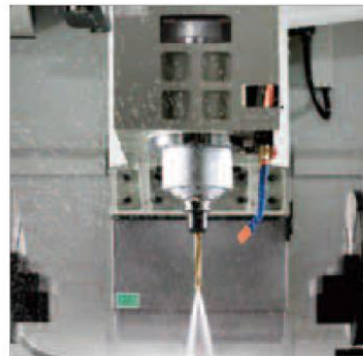
4/5th Axis Rotary Table



4/5th Axis Rotary Table



RENISHAW Laser Tool Measuring System



CTS-Coolant Through Spindle



(20 BAR)



(60 BAR)



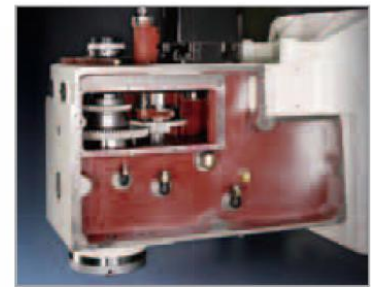
BLUM Laser Tool Measuring System



HEIDENHAIN Optical Encoder



Germany ZF Gearbox



Built-in Heavy Duty Gear Box



Transformer



Link Chain Type Chip Conveyor



Screw Type Chip Conveyor

Honors & Partners



CE(GT Series)

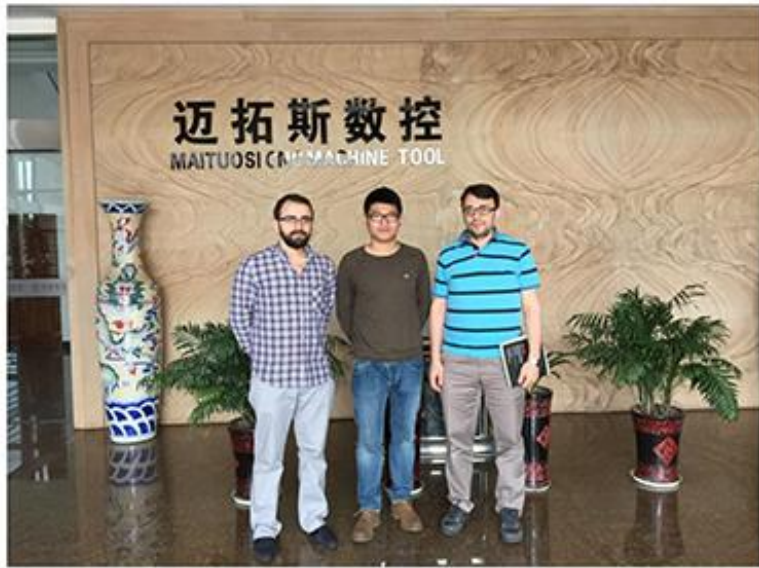
CE(YMC Series)

CQC

Patent Certificate

PARTNER BRAND





Customers



Training

Warmly Note:

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