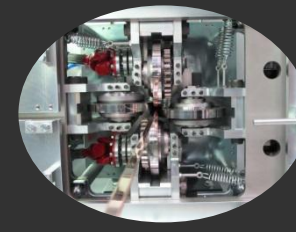
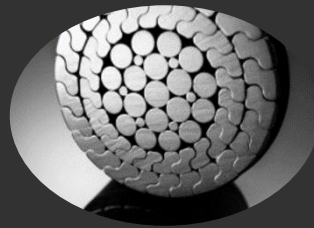
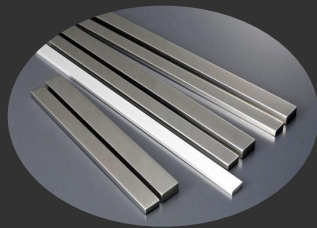
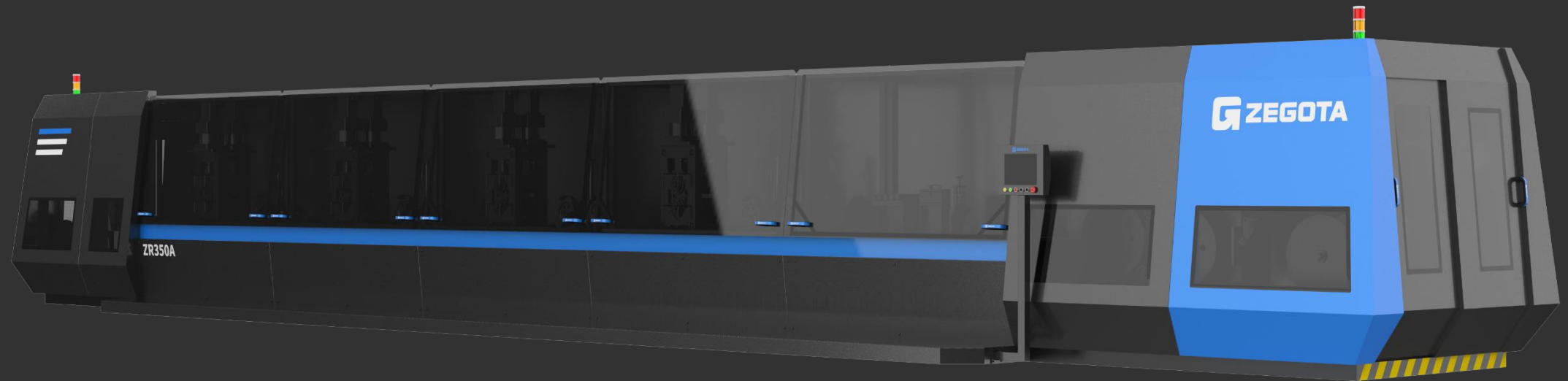


**ZEGOTA**  
Subsidiary corporation

**EnhancingG**  
Cold-Rolling Mill Machine Manufacturer

Professional supplier of precision cold rolling mill and solution

**Wuxi Enhancing Technology Co.,LTD**



Add. : No. 38, Zhanhong Road, Hongshan Street, Xinwu District, Wuxi, Jiangsu, China.  
Tel. : +86-510-88993770  
FAX : +86-510-88582988  
Email : [enhancingguo@gmail.com](mailto:enhancingguo@gmail.com)  
Web. : <http://www.enhancing-rollingmill.com>

Wuxi · China



Wuxi Enhancing Technology Co., Ltd. is located at Hongshan machine photoelectric industrial park of New district in Wuxi. The company covers a total area of 20,000 square meters, with more than 50 sets various types of precision machining equipment and large gantry milling machines, CNC floor type boring and milling machines, etc. The annual production capacity is over 5,000 ton (more than 200 sets). The hoisting capacity of single piece equipment is up to three hundred tons. The large production capacity, complete inspection method and qualified products make Wuxi Enhancing Technology Co., Ltd. a leading company in rolling mill industry in China.

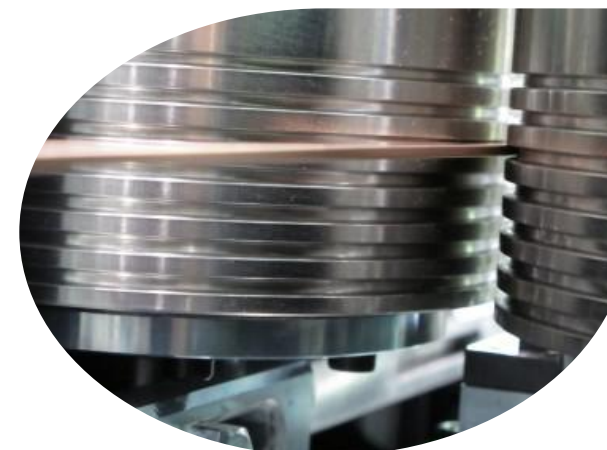
Since the company was established in 1985, Enhancing Technology was committed to technical research and production practice on all kinds of two roll, four roll, six roll, twelve roll, twenty roll reversing and continuous rolling mills. After three decades of unremitting efforts and bold innovation, Enhancing Technology not only achieved fruitful research results in the technical field, but also managed to promote the products to be widely used in hot-rolled strip and cold-rolled strip steel, carbon steel, stainless steel, tungsten and molybdenum titanium steel, non-ferrous metal, composite steel, PPGI, welding pipe and other industries. Meanwhile the products were sold throughout the country and exported to many countries all over the world. Enhancing Technology has build up a high-tech reputation with its own research and innovation.

Over the past decade, in order to improve the company's market competitiveness and upgrade our technology, Enhancing Technology cooperated with scientific research institutions and employed engineers from Bao Steel, Wuhan Iron and Steel in this industry in an effort to improve technological process, solve technical problems and meet customer's satisfaction.



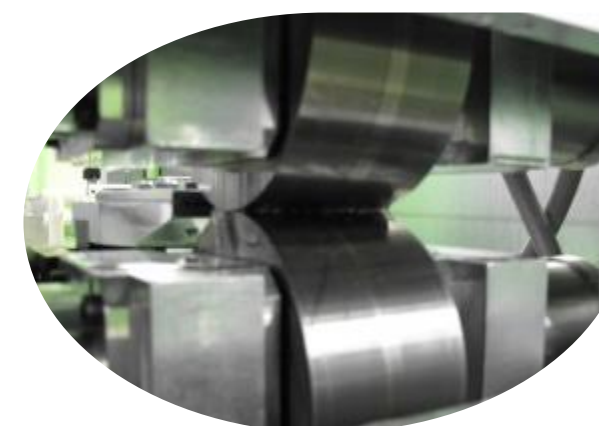
## High precision

- Cemented Carbide Roller of Aviation Grade
- Machining and Manufacturing Technology at machine tool Level
- Dimensional accuracy of finished products:  $\pm 2.5\mu\text{m}$



## High efficiency

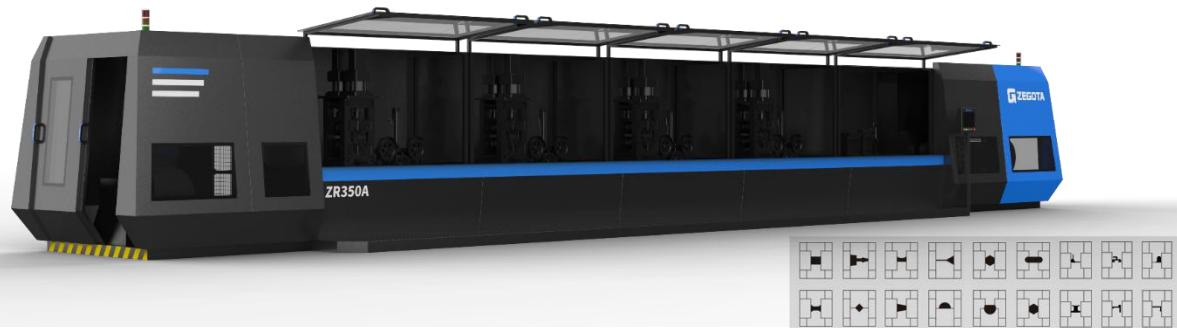
- Double Servo Drive Rolling
- Electric/Hydraulic Roll Gap Adjustment
- Maximum Linear Speed:  $600\text{m}/\text{min}$



## High reliability

- Integral frame forging
- AGC control
- Accuracy keep in : 6 years.





Precision profiled wire rolling machine is a rolling equipment which processes copper, aluminum, stainless steel, carbon steel, alloy and other materials into flat, square, semi-circular and triangular wires by cold rolling. The design team of Enhancing technology Co., Ltd. is based on 30 years of R&D and design experience, and has complete independent intellectual property rights. The product matches the international first-line brand and its performance is at the advanced level of the industry. With flat roll, vertical roll, symmetrical four-roll, universal roll and other rolling heads, we can design multi-pass rolling mill production line according to customer's product requirements. It can not only greatly improve the production efficiency of the industry, but also improve the quality of products. It is the best choice for rolling mills to gradually replace the cold drawing and drawing process equipment.



Item		Parameter
Raw material diameter		Φ0.1~Φ20mm
Raw material		Cooper, Stainless steel, Carbon steel, Steel alloy etc.
Rolled wire size		Max. width-thickness ratio: 30
Final precision		≤0.005mm
Working speed		10~600m/min
Composition	Payoff	Per raw material wire.
	Tension	Pneumatic adjustable, servo torque control.
	Roller	Per rolling method.
	Inline detection	Real-time Width and Thickness Detection.
	Cooling system	Cooling medium constant temperature control, precision filtration.
	Lubrication system	Centralized lubrication and constant temperature control.
	Straightener	Vertical straightening and Horizontal Straightening.
	Degreasing system	Air knife oil removal/scraping oil removal.
Take up		Precision take-up, layout accuracy 0.2m, I-wheel can be

### Horizontal 2 high rolling mill

- Extreme Speed Roll Replacement
- Wide Rolling Force Range: 20~300KN
- Double Servo Drive Rolling

Model no.	ZR0201-15	ZR0201-30	ZR0201-60
Roller diameter (mm)	Φ115	Φ165	Φ200
Roller material	Cemented carbide		
Roller driving	Servo driving		
Max. rolling force (KN)	15	30	60
Highest precision (mm)	≤0.0005		

### Vertical 2 high rolling mill

- Electric roll gap adjustment
- 60KN Rolling Force
- Double Servo Drive Rolling

Model no.	ZR0202-60
Roller diameter (mm)	Φ150
Roller material	Cemented carbide
Roller driving	Servo driving
Max. rolling force (KN)	60
Highest precision (mm)	≤0.0005

### Turkey head 2 high rolling mill

- Electric roll gap adjustment
- 60KN Rolling Force
- Double Servo Drive Rolling

Model no.	ZR0203-30	ZR0203-60	ZR0203-100
Roller diameter (mm)	Φ165	Φ200	Φ260
Roller material	Cemented carbide		
Roller driving	Servo driving		
Max. rolling force (KN)	30	60	100
Highest precision (mm)	≤0.0005		

**Symmetric 4 high rolling mill**



- Hydraulic roll gap adjustment
- 60KN Rolling Force
- Double Servo Drive Rolling
- Easy one-key roll-to-roll

Model no.	ZR0401-30	ZR0401-60	ZR0401-100	ZR0401-250
Roller diameter (mm)	Φ165	Φ200	Φ260	Φ300
Roller material	Cemented carbide			
Roller driving	Servo driving			
Max. rolling force (KN)	30	60	100	250
Highest precision (mm)	≤0.0005			

**Universal 4 high rolling mill**



- Hydraulic roll gap adjustment
- 60KN Rolling Force
- Double Servo Drive Rolling
- Easy one-key roll-to-roll

Model no.	ZR0402-30	ZR0402-60
Roller diameter (mm)	Φ165	Φ200
Roller material	Cemented carbide	
Roller driving	Servo driving	
Max. rolling force (KN)	30	60
Highest precision (mm)	≤0.0005	

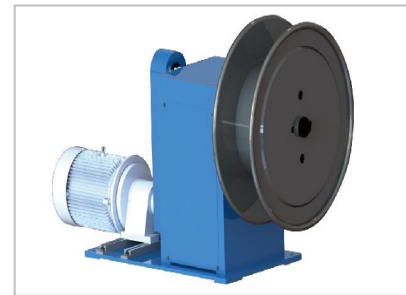
**Paper take up machine**



Model No.	Cantilever	Double center	Gantry
I wheel max. diameter	Φ750mm	Φ850mm	Φ1000mm
I wheel max. width	220mm	450mm	550mm
Max. take-up speed	60m/min	60m/min	300m/min
Max. take-up weight	500KG	1000KG	2000KG
Wiring precision	±0.3mm	±0.2mm	±0.2mm
Take-up direction	Left in/Right in	Left in/Right in	Left in/Right in
Tack-up type	Positive	Positive /inversion	Positive /inversion
Total power ( KW )	3	4.5	7.5
L*W*H (mm)	1500*1300*1500	1750*1850*1600	2800*2200*1800

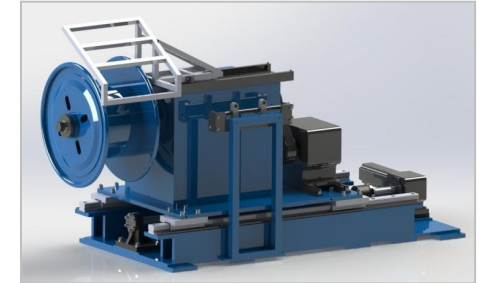
Paper take-up speed can reach 60 m/min, using computer algorithm, the wire arrangement accuracy can reach +/-0.3 mm; multi-functional paper cushion, automatic fixed length paper cutting, paper feeding, can realize the operation requirements of layer paper cushion or interlayer paper cushion; high intelligence, automatic fault recording, paper jamming, paper breakage and paperless automatic alarm, can be configured with remote management system.

**Payoff**



- Active and passive wiring
- I-wheel specifications are customized according to customer requirements
- Bulk steel wire stringer, tower stringer

**Take-up**



- Customized Design According to Customer Requirements
- I-wheel for blank stripping
- Arrangement pitch can be set

**Lubrication**



Rolling bearings adopt centralized lubrication system. Roller bearings are cooled at high speed to improve the service life of bearings.

**Cooling system**



The cooling system is designed with double oil tanks. The rolling oil is filtered precisely and the filter paper can only be reeled. Forced water cooling technology can effectively suppress the temperature rise of rolls and ensure rolling accuracy.

**Inline detection system**



Non-contact laser on-line detection system, the highest detection accuracy can reach <0.001 mm.

**Software control system**



Siemens PLC, Pro-face PMI, Italia Phase servo and drive, The control is more precise and the service life is longer.



### Four high and six high reversing rolling mill



Main function: Used for reversely rolling the high precision and good quality normal carbon steel, stainless steel strips and low alloy steel.  
 Components: Uncoiler, hydraulic coil car and unload car, 5 roll pinch flatter, entrance and exit platform, rolling mill, left and right recoiler, joint gear box, hydraulic AGC, bending roll system, driving motor, electric control system, lubrication system etc.

Technical parameter	Mill model		
	650	750	850
Raw material	Carbon steel and low alloy steel		
Material thickness ( mm )	2.0-3.0		
Material width ( mm )	400-550	500-650	600-750
Final product thickness ( mm )	0.18-0.5		
Rolling force ( KN )	5500	6500	7500
Support roller size ( mm )	φ550X600	φ650X700	φ750X820
Middle roller size ( mm )	-	-	φ300X820 φ280X820
Working roller size ( mm )	φ185X650 φ165X650	φ205X750 φ190X750	φ300X820 φ280X820
Driving method	Working roller driving		
Main motor	DC motor		
Speed reducer	Joint gear box		
Uncoiler ( mm )	φ508X650 φ610X650	φ508X750 φ610X750	φ610X850
Recoiler ( mm )	φ508X650	φ508X650	φ508X650
Rolling speed ( m/min )	180-480	240-600	240-600
Uncoiler tension ( KN )	30	35	45
Recoiler tension ( KN )	10-70	10-80	10-90
Pressing method	Mechanical/Hydraulic AGC		
DC speed regulator	Siemens		
Electric control	Siemens PLC		

Remark : The model and parameter shown in this table are for reference only. The design and production can be tailor-made according to customer' s requirements.

### Six high reversing rolling mill



Main function: Used for reversely rolling the high precision and good quality normal carbon steel, stainless steel strips and low alloy steel.  
 Components: Uncoiler, hydraulic coil car and unload car, 5 roll pinch flatter, entrance and exit platform, rolling mill, left and right recoiler, joint gear box, hydraulic AGC, bending roll system, driving motor, electric control system, lubrication system etc.

Technical parameter	Mill model		
	950	1150	1380
Raw material	Carbon steel and low alloy steel		
Material thickness ( mm )	2.0-3.5		
Material width ( mm )	600-850	900-1050	1000-1250
Final product thickness ( mm )	0.18-0.6		0.2-0.6
Rolling force ( KN )	9000	12000	15000
Support roller size ( mm )	φ850X920	φ1050X1120	φ1250X1350
Middle roller size ( mm )	φ350X900 φ320X900	φ380X1150 φ350X1150	φ420X1380 φ380X1380
Working roller size ( mm )	φ260X950 φ235X950	φ310X1150 φ280X1150	φ370X1380 φ340X1380
Driving method	Working roller driving		
Main motor	DC 1500KW X2	DC 1000KW X4	DC 1250KW X4
Speed reducer	Joint gear box		
Uncoiler ( mm )	φ508X950 φ610X950	φ610X1150	φ610X1380
Recoiler ( mm )	φ508X950	φ508X1150	φ610X1380
Rolling speed ( m/min )	800	900	1000
Uncoiler tension ( KN )	45	70	70
Recoiler tension ( KN )	10-100	40-140	17-170
Pressing method	Hydraulic AGC		
DC speed regulator	Siemens		
Electric control	Siemens PLC		

Remark : The model and parameter shown in this table are for reference only. The design and production can be tailor-made according to customer' s requirements.



### Continuous rolling mill

Main function: Used for continuous rolling the high precision and good quality normal carbon steel, stainless steel strips and low alloy steel.

Components: Uncoiler, hydraulic coil car and unload car, accumulator, 5 roil pinch flatter, entrance and exit platform, rolling mill, left and right recoiler, joint gear box, hydraulic AGC, bending roil system, driving motor, electric control system, lubrication system etc.



Technical parameter	Mill model		
	650	750	850
Raw material	Carbon steel and low alloy steel		
Material thickness ( mm )	2.0-3.0		
Material width ( mm )	400-550	500-650	600-750
Final product thickness ( mm )	0.4-0.6		
Rolling force ( KN )	5500	6500	7500
Support roller size ( mm )	φ550X600	φ650X700	φ750X820
Working roller size ( mm )	φ185X650	φ225X750	φ240X850
Mill stands	3-6 stands		
Driving method	Working roller driving		
Main motor	DC motor		
Speed reducer	Joint gear box		
Uncoiler	φ610X650	φ610X750	φ610X850
Recoiler	φ508X650	φ608X750	φ508X850
Rolling speed ( m/min)	240-420	300-420	300-480
Uncoiler loop	Disc loop or ground loop		
Recoiler tension ( KN )	0-35	0-45	0-55
Pressing method	Mechanical/Hydraulic AGC		
DC speed regulator	Siemens		
Electric control	Siemens PLC		

Remark : The model and parameter shown in this table are for reference only. The design and production can be tailor-made according to customer' s requirements.

### Customized foil rolling mill



We purchased a Five Stands Flat Wire continuous rolling mill from Enhancing Technology in 2016. Initially, we used it for the preliminary rolling process of our piston ring material. However, when we found that the precision of this rolling mill was +/- 0.003 mm. We immediately changed and put it into the precision rolling process. We have purchased another 5 stands tandem continuous flat wire rolling mill from them this year.  
---Tokai Kogyo from Japan



It was a big investment for us to take 4 same 650 mm (AGC) reversible cold rolling mills from Enhancing Technology in 2008. Fortunately, they have been running well and the payback is good. My company makes good profit from these machines.---Adrian Buga from Romania



The precision of flat wire continuous rolling mill from Enhancing Technology is amazing. We purchased it for our piston ring production in China in 2017. And we are purchasing more lines from them now. This is a good partner and we enjoy our good cooperation.  
---Edmund Kozlowski from Germany



Roller ring



Cemented carbide composite roll is a special method to combine or combine cemented carbide roll rings and matching Steel Axles for rolling profiles such as round steel, thread steel, square steel, flat steel and angle steel. Cemented carbide composite rolls are suitable for intermediate mills of traditional bar and wire mills, bar and wire disc mills and high speed wire mills with rolling speed of 2-50m/s.

Type	Composition		Physical performance				Used for
	WC	Co/Ni/Cr	Hardness HRA	Tensile N/mm <sup>2</sup>	compressive N/mm <sup>2</sup>	Density g/cm <sup>3</sup>	
YGH5 <sub>5</sub>	74	26	81.0	2570	3000	12.7	Before finished products
YGR5 <sub>5</sub>	75	25	79.0	2400	2800	13.3	前Round bar product, Before finished products
YGR6 <sub>0</sub>	70	30	78.5	2200	2600	12.6	Round bar product, Before finished products, Cuting
PC30	74	26	80.0	2450	2900	13.0	Before finished products
PC40	70	30	79.5	2350	2700	12.7	Round bar product, Screw thread steel

**Supporting technical services:**

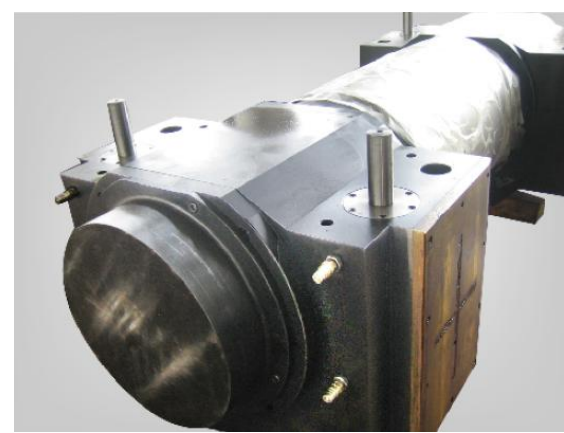
- Provide technical services such as design, groove processing and rib cutting of cemented carbide composite rolls.
- Provide all kinds of matching tools for the processing of cemented carbide composite rolls.
- Composite rolls of various assembly modes can be provided according to customer's requirements.
- Provide carbide roll rings with diameters of 300-400 mm and thickness of 30-150 mm for rod and wire reducing and sizing machine.



Design and machining for wire roller and mold cavity



Design and machining for foil roller



Design and machining for foil roller system





Enhancing Technology advocates the utilization of most advanced technology so as to take the leading position in its own field. To provide reliable technical services is the fundament of Enhancing Technology as we continue to provide advanced products, technology and services. By introducing advanced production and processing equipment, we will continue to take the leading role in rolling mill manufacturing industry.



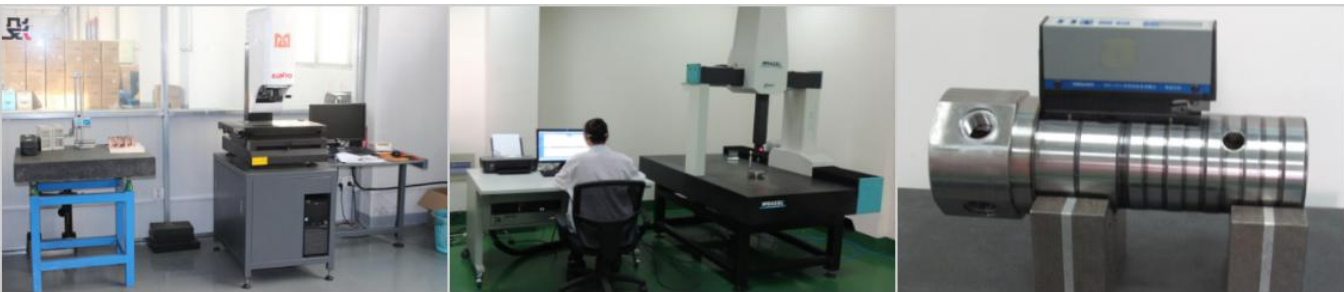
Horizontal CNC Machining Center Horizontal CNC Milling Machine CNC Machining Center



CNC Lathe CNC Flame Cutting Machine CNC Boring and Milling Machine



Gantry Milling Machine CNC Milling Machines Hydraulic Pressing Machine



Testing Equipment



Certification of ISO9001:2000 Quality Management System



Certification of Enterprise of honoring contract



Global sales network