Company Profile

Jinan East Testing Machine Co., Ltd. combines Jinan East Testing Machine Company and Beijing East Lizhi Testing Machine Company, our company integrates scientific research, developing, and manufacture. Our company has almost 20 years experience in testing and strong capability of hardware & software research and mechanical design. We also have a powerful group consisting of all kinds of high and mid-level engineers and technicians in automatic control, software programming, hydraulic machinery, material testing, marketing, production management and testing machine assembly lines, with a wealth of experience, excellent technology, broad thinking and continuous innovation ability. We have the perfect technology and matched facilities, such as lathes, mills, and digging, boring and cutting lines. Our company is setting up a group and a network.

Since 1994 the East Group setting up, our company rely on Jinan university scientific research and technology, draw lessons from Japan Shimazu testing machine manufacture advanced technology, we have been committed to the research and development of mechanical test instrument. We also have the strong design processing capacity and have gained “the measuring instruments production license” from technical super vision department of the state, “measurement conformity confirmation certificate” and “metrological standard qualified certificate” from Jinan technical supervision organization. We are one of the backbones of national mechanical testing machine produce enterprise.

The test machine software database has gathered more than 200 kinds of test standard materials of various materials at home and abroad; it has solved the test methods and test fixtures for the national 863 major science and technology projects, substitute imported materials and special-shaped unpredictable samples. The particulate matter triaxial photoelastic tester and the five-axis fatigue testing machine jointly developed by Tsinghua University and our company have filled the domestic gap.

The company adheres to the principle of quality first and strictly implements various requirements of the quality management system. It has obtained ISO9001:2000 quality certification from UKAS International Certification Company and CE certification for exporting European products.

Our main products are electronic tensile testing machine, microcomputer controlled electronic universal test machine, computer controlled hydraulic servo universal testing machine,material universal testing machine,artificial board electronic universal test machine, ring stiffness electronic universal test machine, compression testing machine,fatigue testing machine , computer controlled hydraulic servo horizontal

tensile testing machine,impact testing machine,torsion testing machine,manhole cover pressure testing machine,torque tester, auto and motorcycle lasso efficiency test rig, auto and motorcycle lasso longevity test-beds, computer display hydraulic universal testing machine, electro-hydraulic servo universal test machine, friction and wear tester to more than ten series of over 80 kinds of testing instruments. The products are sold well in thirty provinces, cities and autonomous regions, and exported to Southeast Asia, America,South America, Europe,Russia and other countries and regions.

product list(Main product,incomplete)

1) Hydraulic Universal Testing Machine

1. WES Digital Display Pressure Universal Testing Machine
2. WEW Microcomputer Display Hydraulic Universal Testing Machine
3. WAW Microcomputer Controlled Electro-hydraulic Servo Universal Testing Machine

2) Electronic Universal Testing Machine

1. LDW Digital Display Electronic Tensile Testing Machine
2. WDW Computer controlled Electronic Universal Testing Machine) (Standard type)
3. WDW-J Computer controlled Electronic Universal Testing Machine) (high configuration type)
4. MWW Man-made Board Electronic Universal Testing Machine
5. HGW Computer Controlled Ring Stiffness Testing Machine
6. XJS-100 The rubber joint stiffness testing machine

3) Microcomputer controlled pressure testing machine

1. YAW-300 microcomputer controlled constant stress pressure testing machine
2. YAW-300C microcomputer controlled compressive and flexural testing machine
3. YAW Computer controlled constant stress pressure testing machine/digital display building material pressure testing machine
4. YAW-C large space computer controlled hydraulic pressure testing machine
5. WYY-300 Microcomputer controlled rock pressure-in hardness testing machine

6. YAJ-600/1000 microcomputer controlled manhole cover pressure testing machine

4) Horizontal Tensile Testing Machine

1. WAL microcomputer controlled electro-hydraulic servo horizontal tensile testing machine

2. WEL computer screen display hydraulic horizontal tensile testing machine

5) High temperature Tensile Creep Testing Machine

1. High temperature Tensile Testing Machine
2. RDL Microcomputer Controlled High Temperature Creep Relaxation Testing Machine

6) SDL microcomputer controlled steel strand relaxation testing machine

7) Torsion Testing Machine

1. WNJ Microcomputer controlled Torsion Testing Machine
2. EZ Metal Wire Torsion Testing Machine
3. WJJ Metal Wire Bending repeatedly Testing Machine
4. GW-40/50 Rebar Bending Testing Machine

8) Car Lasso (soft shaft) Performance Testing Machine

1. RZX-2 Car and Motorcycle Lasso (soft shaft) Efficiency Testing Bench)
2. RZP-5 Car and Motorcycle Lasso (soft shaft) Efficiency Testing Bench)

9) MEP series microcomputer controlled electro-hydraulic servo fatigue testing machine (dynamic and static universal testing machine)

10) Impact Testing Machine

1. JB Semi-automatic impact testing machine
2. JBW Microcomputer screen display impact testing machine
3. ST-50 Impact Specimen Notch Projector
4. CSL-B electric and manual broaching machine
5. DWC series impact test low temperature tank

11) YJW microcomputer controlled electro-hydraulic servo compression shear testing machine

12) WGG series computer-controlled hydraulic static load anchoring test machine

12) WSS Microcomputer Controlled Particulate matter biaxial photoelastic tester

13) WLN series microcomputer controlled tension and torsion composite testing machine

15) Torque Testing Machine

1. NS type wall-mounted torque tester
2. NSJ Series Mechanical stressing Torque Tester
3. NSD type electric torque tester

WDW series microcomputer controlled electronic universal testing machine

Host structure

●The frame structure is composed of the upper beam, the middle beam, the lower beam and the bottom panel through two pairs of lead screws. Ensure the rigidity of the frame structure.

●The full digital AC servo motor drives Taiwan reducer and synchronous toothed belt to drive two pairs of high-precision seamless precision lead screws. Ensure that the load is stable, no gap, high transmission efficiency.

Test force measurement

●Using high-precision, high-stability spoke-type tension and compression strain sensors, equipped with high-precision measurement amplification system, to ensure the high precision of the test force.

●Multiple sensors can be used according to user needs to achieve a wide range of test force measurement.

Manual control box

●It has 6 buttons: fast up, fast down, slow up, slow down, start and clear.

Grips

●Easy to operate, various special fixtures can be selected according to different materials. Large size testing machine can be equipped with hydraulic clamping fixture.

Deformation measurement system

●Using a high-precision strain gauge electronic extensometer and a high-precision, high-response measurement system, high-precision measurement of small deformation of metal materials is realized.

●The electronic extensometer is equipped with various specifications according to gauge length and deformation, which can meet the measurement needs of different materials

Control switch

●In an emergency, the power supply of the whole machine can be cut off as quickly as possible.

Software system

●Using Lenovo brand computer, the control system software is Windows XP operating system platform, which has the characteristics of fast running speed, mild interface and simple operation, which can meet the test and measurement needs of different materials. The physical performance test of various materials can be measured according to international standards, national standards or industry standards.

Displacement measuring device

●Using 2000 channels/circle photoelectric encoder, the relative accuracy is up to ±0.5%.

Limit protection device

●According to different tests, the position of the limit protection switch can be adjusted to most effectively prevent the fixture from colliding.

Large deformation measuring device

●Clamp-type automatic tracking measurement for non-metallic materials such as plastic and rubber with large deformation.

Power control system

●Imported all-digital AC servos are used to control high-precision AC servo motors to ensure high transmission efficiency, good low-speed performance, low noise, and smooth transmission.

Data acquisition test card

●AD800 data acquisition test card can be directly inserted into any PCI slot of the computer, which greatly simplifies the circuit structure, speeds up the sampling rate of the system, and improves the accuracy and stability of the measurement and control system.

WDW series microcomputer controlled electronic universal testing machine

The main purpose

●It can test and analyze the mechanical properties of various metals, non-metals and composite materials. It is widely used in aerospace, petrochemical, machinery manufacturing, plastics and rubber, ceramic building materials, metal materials, construction engineering and other industries, as well as institutions of higher learning , Research institutes, technical supervision, quality inspection stations and other departments.

●According to GB, ISO, ASTM, JIS, DIN and other standards for tensile, compression, bending, peeling, shearing, tearing, puncture, bursting and various high and low temperature tests, and the parameters such as yield strength , Tensile (compression, bending) strength, elongation, fixed elongation strength, non-proportional strength, elastic modulus and other parameters of the material can be detected.

●The control system adopts computer control combined with advanced electronic control technology to realize standardized and unitized design. It has the characteristics of accurate control, high measurement accuracy, flexible configuration, easy exchange of accessories, and convenient after-sales service.

●It has three control modes of load, displacement and deformation. The control modes can be switched randomly, test data are automatically collected and processed, various curves are drawn and test reports are printed.

●With mechanical limit protection, overload protection, over current protection, leakage protection and other functions.

Measurement control system function

1. Measuring system

●Load measurement: select FS0.05% high stability, high precision spoke type tension and compression sensor, equipped with high precision measurement amplification system to ensure the high precision of the test force.

●Sample deformation measurement: The deformation measurement of the sample is realized through a large deformation measurement system or an electronic extensometer (small deformation measurement), adopt 24-bit A/D conversion single-chip card acquisition system, and data processing controlled by a computer.

●Beam displacement measurement: using 1000P/R high-precision photoelectric encoder and precision screw coaxial rotation angle, the measurement of the beam displacement (that is, the absolute displacement of the upper and lower chucks) is realized through a digital circuit.

2. Transmission control system

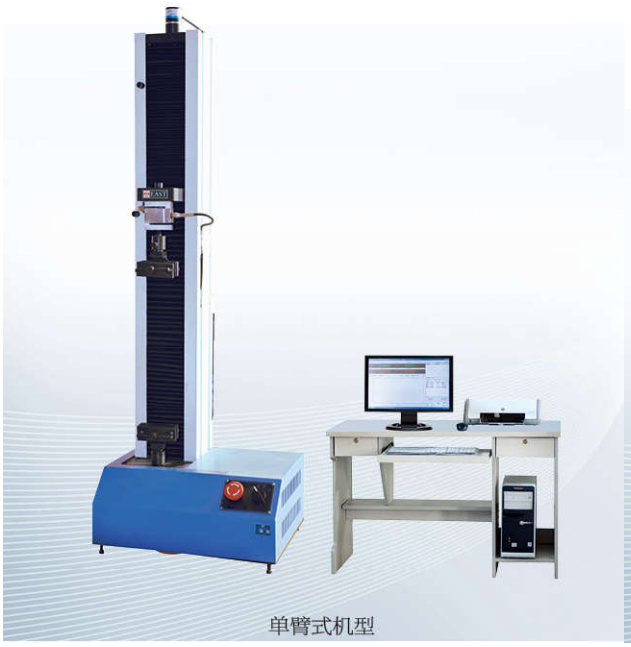
It adopts a fully digital servo controller to control a high-precision servo motor, and drives the screw to rotate and load through a synchronous toothed belt to ensure high transmission efficiency, low noise, stable transmission, and ensure that the speed accuracy is within ±1% of the indicated value.

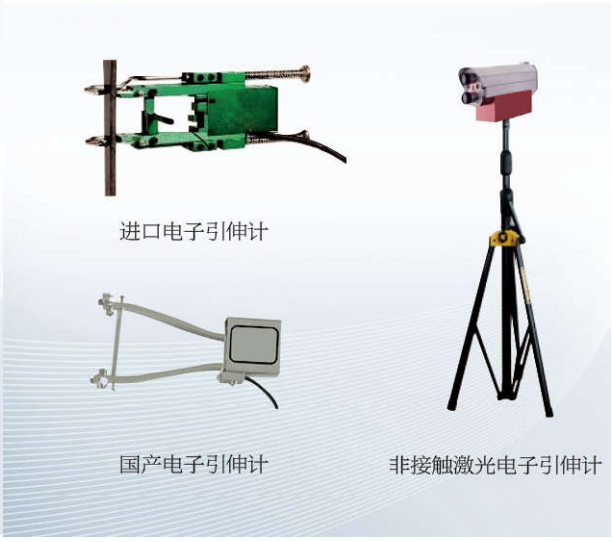
3. Load frame

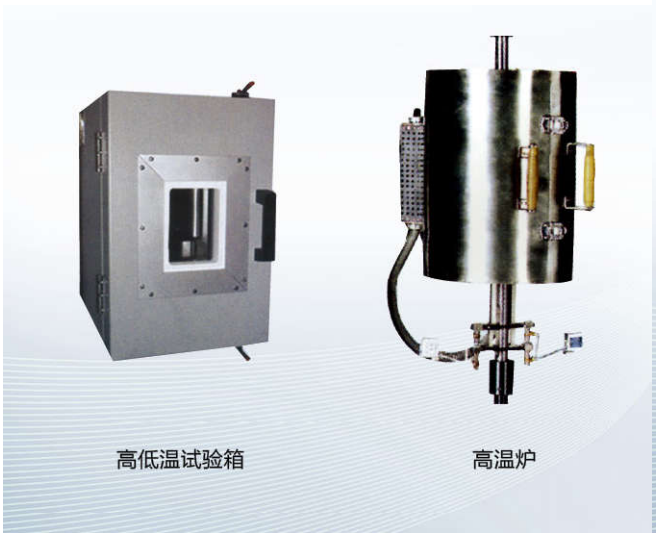
The upper beam and the working table are fixed by the guiding light beam to form the frame structure, and the middle beam is driven by the screw to transfer the load. It has the characteristics of reasonable structure, good stability and stable loading.

4. Data processing software package

The control system software adopts the WindowsXP operating system platform, which has fast running speed, friendly interface, simple operation, and can meet the needs of different materials test methods. Meet tensile, compression, and bending test requirements. If there are special requirements, the software can be customized. And can expand the software according to user requirements. It can meet the requirements of GB, ASTM, DIN, JIS and other standards.







The software includes the following main features:

The kernel is centered on Access database and combined with SQL language to facilitate data retrieval. New test treatment methods can be easily added.

The main function:

●Synchronous measurement and display of force value, large deformation, small deformation and displacement.

●The test speed can be set arbitrarily.

●Real-time display of test curve, automatic shift of abscissa and ordinate.

●2 force sensors and 3 deformation sensors can be set.

●It can be set to stop at a fixed time, stop at a constant load, stop at a constant deformation, and set fracture discrimination conditions.

●Can delete the data of a certain sample that has been done arbitrarily.

●The curve can be scaled and printed arbitrarily, and parameter points (yield point, elastic section, etc.) can be selected on the curve.

●The parameter calculation adopts VB+SQL language, which is reliable and convenient.

●The maximum strength, elastic modulus, constant elongation, constant load elongation, elongation at break, yield strength of non-metallic materials can be obtained according to user requirements. The yield strength, non-proportional strength, total elongation strength, tensile (compressive) strength, elongation, etc. of metal materials.

5. Control unit

The control system is the latest computer software and hardware technology, combined with the latest semiconductor technology, reliable, advanced, easy to operate and flexible in force measurement, displacement measurement, deformation measurement, and speed control.

6. Microcomputer system

Using a microcomputer (including: host, 17-inch LCD display, standard keyboard and mouse, large-capacity hard disk) as the host, complete machine test setting, working status control, data acquisition, calculation processing, display and print test results and other functions; There is a special KQL-PowerTest2001 Chinese version of the intelligent testing software package for testing machines, which can measure and judge various performance parameters of various material tests according to national standards,

international standards or standards provided by users, and perform statistics and processing on the data; then output Test reports and curve diagrams in various required formats.

series	WDW series microcomputer controlled electronic universal testing machine				
model	WDW-01、02、05、1、2、5	WDW-02、05、1、2、5、10	WDW-5、10、20、30、50	WDW-100	WDW-200、300/500、600
Structure type	Single arm type	Small door type (desktop)	Door type		
basic configuration	Precision ball screw, servo speed control motor and speed control system, three closed loop automatic control system				
Maximum test force (KN)	0.1、0.2、0.5、1、2、5	0.2、0.5、1、2、5、10	5、10、20、30、50	100	200、300/500、600
Test force measurement range	0.2%～100%FS				
Maximum error of test force indication	Within ±0.5% of the indicated value				
Deformation measurement range	0.2%～100%FS				
Deformation resolution	0.01mm				
Large deformation measurement range (optional)	10～500mm				
Large deformation indication error	Within ±0.5% of the indicated value				
Displacement indication error	Within ±0.5% of the indicated value				

Speed regulation range of test speed	0.05～500mm/min		0.05～500mm/min		0.05～250mm/min
Test speed control accuracy	±0.5%				
Effective stretching space	0～650mm (large space can be customized according to user needs)				
Effective test width	——	350mm	410mm	420mm/500mm	550mm/600mm
Stretching fixture configuration	stretching fixture 1 set	lever type tensile fixture 1 set(hydraulic clamping fixture can be used for large-size testing machine)			
Motor Power	220V、0.5kw	220V、0.8kw	220V、1.2kw	220V、1.5kw	220V、3.0kw/4.5 kw
Host machine size (mm)	400×300×1200	620×370×1240	700×410×1680	960*480*1780 950×530×2100	1000×600×2300 1000×630×2400

series		WDW series microcomputer controlled electronic universal testing machine (high configuration type)				
	model	WDW-01、02、05、1、2、5	WDW-02、05、1、2、5、10	WDW-5、10、20、30、50	WDW-100	WDW-200、300/500、600
Measurement parameters	Structure type	Single arm type	Small door type (desktop)	Door type		
	basic configuration	Precision ball screw, imported servo speed control motor and speed control system, three closed loop automatic control system				
	Maximum test force (kN)	0.1、0.2、0.5、1、2、5	0.2、0.5、1、2、5、10	5、10、20、30、50	100	200、300/500、600
	Test machine grade	0.5 level (can reach 0.25 level according to user requirements)				
	Test force measurement range	0.2%～100%FS or 0.4%～100%FS				
	Maximum error of test force indication	±0.5%				

	Test force resolution	1/500000 of the maximum test force				
	Deformation measurement range	0.2%～100%FS				
	Deformation resolution	0.001mm				
	Large deformation measurement range (optional)	10～500mm				
	Large deformation indication error	Within ±0.5% of the indicated value				
	Displacement indication error	Within ±0.5% of the indicated value				
control parameter	Speed regulation range of test speed	0.05～500mm/min				0.05～250mm/min
	Test speed control accuracy	±0.5%				
	Deformation rate adjustment range	0.005～5%FS/s				
	Force control rate adjustment range	0.005～5%FS/s				
	Force control rate adjustment accuracy	±0.5%				
	Constant force, constant strain, constant displacement control range	0.5～100%FS/s				
	Constant force, constant strain, constant displacement control accuracy	±0.5%				
Structural parameters	Effective stretching space	0～650mm (large space can be customized according to user needs)				
	Effective test width	——	350mm	410mm	500mm	550mm/600mm
	Stretching fixture configuration	stretching fixture 1 set	lever type tensile fixture 1 set(hydraulic clamping fixture can be used for large-size testing machine)			
	Motor Power	220V、0.5kw	220V、0.8kw	220V、1.2kw	220V、1.5kw	220V、3.0kw 220V、4.5kw

	Host machine size (mm)	400×300×1200	620×370×1240	700×410×1680	950×530×2100	1000×600×2300 1000×630×2400

LDW series liquid crystal display electronic tensile testing machine

Main purpose and function

This series of electronic tensile testing machine uses single-chip card to measure and control the test parameters. It adopts mechanical loading, synchronous belt transmission,

electronic measurement, LCD digital display, the test speed is continuously adjustable, and the test is broken and automatically shut down. The testing machine digitally displays the test force, displacement, and test speed at the same time, and has the function of maintaining the test force and displacement peak value. It can adjust the speed by pressing the button. The test force is divided into four levels and automatically shifted.

This machine is widely used in the mechanical performance test of rubber, plastic, wire and cable, textile, waterproof material, non-woven fabric and other non-metallic materials, as well as metal wire, metal foil, metal plate and metal rod. It can also be used for the mechanics performance test of other parts. Adding accessories can also do compression and bending tests.

The main technical parameters

model	LDW series liquid crystal display electronic tensile testing machine (single column type)
specification	50N、100N、200N、500N、1000N、2000N、3000N、5000N
Structure type	single column type
Effective stretching space	650mm (large space can be customized according to user needs)
Load measurement range	2%～100% of maximum load
Load measurement accuracy	±1% of indicated value
Speed range	0.1～500mm/min

Speed accuracy	±2%
Displacement measurement	Resolution 0.1mm
Dimensions	400×300×1200mm
power supply	220V±10%,0.5kw
Fixture configuration	1 set of stretching fixture; other fixtures are optional

LDW series liquid crystal display electronic tensile testing machine

The main technical parameters

model	LDW series liquid crystal display electronic tensile testing machine (small door desktop)	LDW series liquid crystal display electronic tensile testing machine (floor door type)

specification	0.2 kN、0.5 kN、1 kN、2 kN、5 kN、10 kN	5kN、10kN、20kN、50kN	100kN	200kN	300kN
Structure type	Small door desktop	Floor door type			
Load measurement range	2%～100% of maximum load	2%～100% of maximum load		2%～100% of maximum load	
Load measurement accuracy	±1% of indicated value	±1% of indicated value		±1% of indicated value	
Effective test width	350mm	410mm	450mm	550mm	
Effective stretching space	0～650mm (large space can be customized according to user needs)				
Speed range	0.1～500mm/min	0.1～500mm/min	0.1～100mm/min	0.2～100mm/min	
Speed accuracy	±2%	±2%		±2%	
Displacement measurement	Resolution 0.1mm	Resolution 0.1mm		Resolution 0.1mm	
Dimensions	620×370×1250mm	700×410×1680mm	760×480×1780mm	1000×570×2200mm	
power supply	220V±10% 0.8kw	220V±10%,1.2kw	220V±10%,1.5kw	220V±10%,2kw/3kw	
Fixture configuration	1 set of stretching fixture; other fixtures are optional				

XJS series rubber node stiffness testing machine

MWW series Computer controlled wood-based panel universal testing machine

MMG-5 rolling wear testing machine

HGW series microcomputer control ring stiffness testing machine

Software features

●Closed-loop control: high-performance speed regulation system enables the test speed to achieve closed-loop and automatic control;

●Software system: adopts man-machine dialogue operation under WindowsXP Chinese platform, simple operation and accurate data;

●Automatic storage: through the computer, automatically obtain the maximum test force, breaking force, yield point, tensile strength, ring stiffness, elastic modulus, elongation and other parameters, and automatically store the test results;

●Curve comparison: Various characteristic curves of force-elongation, stress-time, force-time, and elongation-time can be drawn for material test, and any section can be selected for local amplification and analysis; multiple sample characteristic curves can be superimposed and compared with different colors;;

●Safety protection: automatic protection and shutdown of test machine for sample breaking, overload and over-current.

Multiple functions

It can be used for ring stiffness test of FRP pipe, sand-filled FRP pipe and plastic pipe and tensile test of the material, and the test report and test curve can be prepared and printed in the format required by the user.

HGD series electronic ring stiffness testing machine

HGD series electronic ring stiffness testing machine adopts mechanical loading, electronic measurement, digital continuous speed regulation, and real-time control with micro-chip card. The machine can simultaneously display the test force and displacement/speed on the LCD screen, and has the function of holding the test force

peak value. This machine is widely used in testing the ring stiffness of plastic pipes, glass steel pipes, and sand-filled glass steel pipes and mechanical properties test .

model / specification	HGW-10	HGD-10	HGW-20	HGD-20	HGW-50	HGD-50	HGW-100	HGD-100	HGW-200	HGD-200
Maximum test force	10kN		20kN		50kN		100kN		200kN	
Effective measuring range	0～10kN		0～20kN		0～50kN		0～100kN		0～200kN	
Test force accuracy	Better than ±1% / ±0.5% of the indicated value									
Displacement measurement accuracy	Better than ±1% / ±0.5% of the indicated value									
Displacement resolution	0.01mm									
Deformation measurement accuracy	Better than ±1% / ±0.5% of the indicated value									
Deformation resolution	0.01mm									
Beam displacement speed	0.05～300/500mm/min stepless speed regulation						0.05～300mm/min stepless speed regulation			
Speed accuracy	Better than ±1% of indicated value									
Maximum test pipe diameter	Customized according to user sample requirements, pipe diameter range 0～3000mm									
Effective test width	Customized according to user sample requirements, greater than 20% of the maximum pipe diameter									
Host machine power	1.5kw，AC220V±10%，50HZ								2.5kw，AC220V ±10%，50HZ	

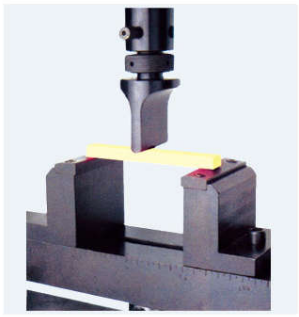
working environment	Room temperature 10～35℃, humidity 20%～80%
Applicable standards	GB, ISO, ASTM and industry standards
Software and interface	WindoweXP application software (HGD type without software and interface)

电子万能试验机可选配夹具


旋转式拉伸夹具


杠杆式楔形拉伸夹具


杠杆式楔形夹具


弯曲附具


压剪附具


拉剪夹具

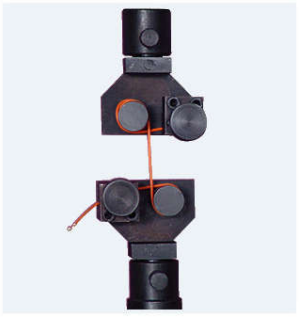

连杆拉伸夹具


编织带拉伸夹具


橡胶片拉伸夹具


线材拉伸夹具


线绳拉伸夹具

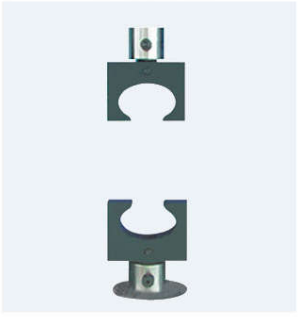

线丝拉伸夹具


90° 剥离夹具


液压拉伸夹具

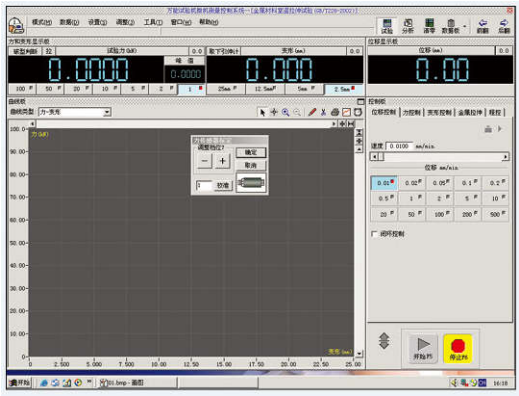

顶破夹具

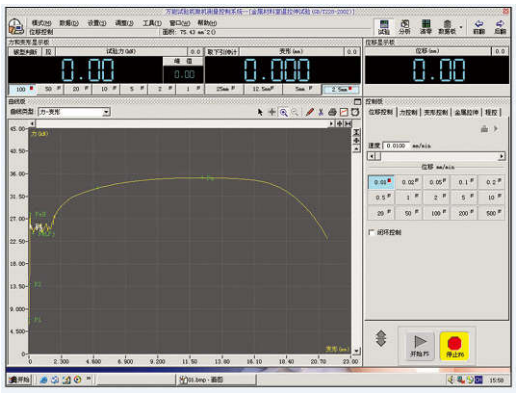

土工布拉伸夹具

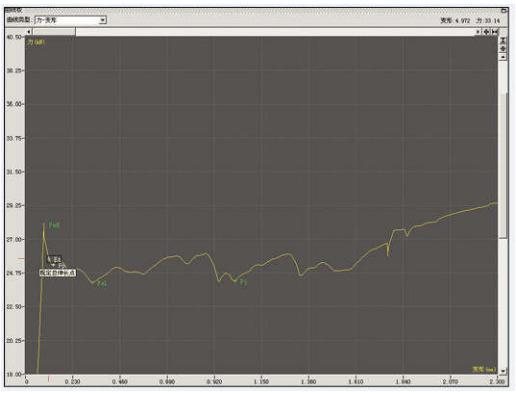

8字模夹具

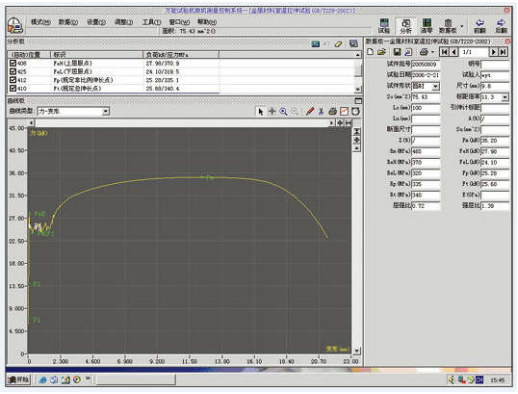

保温材料专用附具

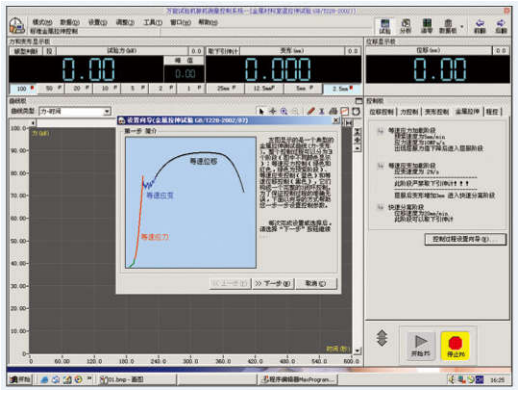
Software Description

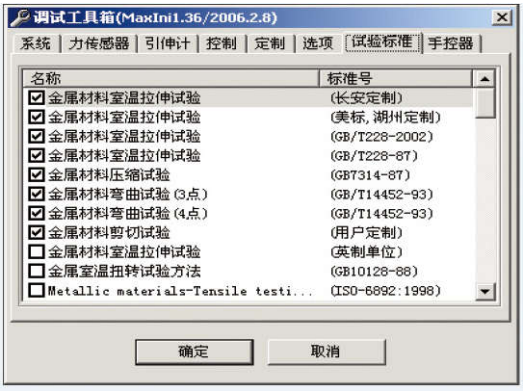


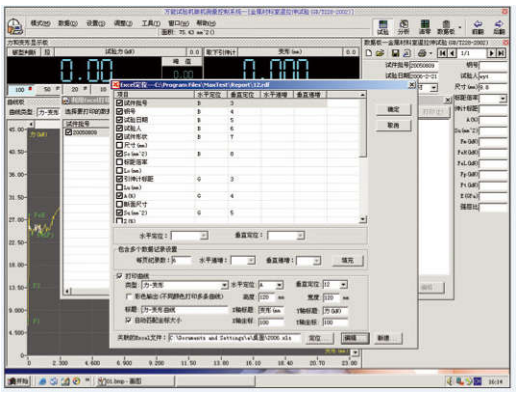


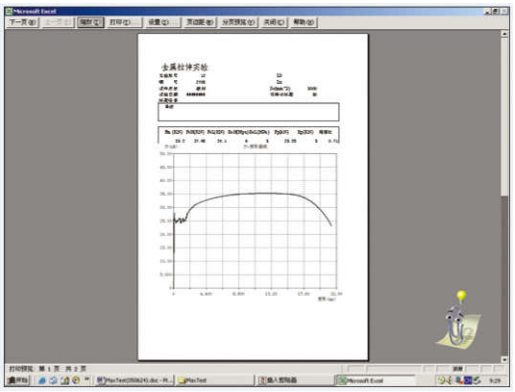












The MaxTest program is suitable for different types of material testing machines according to different configuration parameters, such as microcomputer controlled

electronic universal testing machines, microcomputer screen display universal testing machines, microcomputer controlled electro-hydraulic servo universal testing machines, etc. Different models, the MaxTest program has a little difference in partial man-machine interface and usage. The data acquisition test card is microcomputer built-in PCI test card based on the PCI interface, which conforms to PCI2.1 specifications. The card can be directly inserted into any PCI slot of the microcomputer. It is the core hardware of the microcomputer control system of the test machine. By optimizing the CPLD programming, the FlexDC* digital control performance is strengthened, and the signal during the test is digitized and connected to the CPLD chip to complete high speed Signal processing. Because the CPLD has abundant pins, strong connection ability, high integration, and after the circuit board is made, the digital circuit logic can be changed through online programming. Through a simple connection, it can be directly connected to the testing machine ,which can realize the automatic measurement and control of the microcomputer, truly achieve the plug and play test, greatly simplifying the circuit structure and improving the reliability.

WAW series

Computer controlled electro-hydraulic servo universal testing machine

The WAW series microcomputer controlled electro-hydraulic servo universal testing machine adopts the oil cylinder underneath type host machine produced by the introduction of the Japanese Shimadzu technology. It is equipped with the electro-hydraulic servo oil source of the precision plunger pump motor group and the high precision servo valve and the independent low noise clamping oil source. All digital programmable amplifier, with control mode intelligent setting expert system, can realize closed loop control of various modes, and complete the tensile, compression, bending and shear tests of metallic and non-metallic materials. The parameters such as Fm, ReH, ReL, RP0.2, RP1, Rm and elastic modulus E can be obtained automatically according to the requirements of GB228 (tensile Test method for Metal Materials at Room temperature).

Performance characteristics

● Automatic control, measurement, data acquisition and processing, drawing and printing test curves and test reports;

● The measurement and control system is automatically calibrated and automatically zeroed;

● Test speed, deformation, displacement and other speed control, the control error is better than ±0.5% of the set value;

● Stepless speed regulation, control speed and control mode can be smoothly switched and maintained during the test;

● Data storage and curve amplification, different test curves can be arbitrarily displayed during the test;

● During the automatic operation of the program, it can be converted to manual control at any time, and the control mode and control speed can be manually adjusted;

● Test force overload automatic protection function, its protection range can be set arbitrarily;

●It can be used for computer networking between laboratories for easy management.

Outstanding excellent configuration

●Hand-automatic integrated control operation mode, which can be operated automatically by computer or manually, which greatly improves work efficiency and reduces the labor intensity of operators;

●Hydraulic automatic tightening, sample clamping is firm, not easy to slip;

●Using the spoke type load cell to directly measure the actual force value of the sample, the measurement is accurate and reliable, avoiding the influence of hydraulic sensor measurement because of the force value drift caused by the oil temperature measured and

the friction between the piston and cylinder on the test force;

●Using precision plunger oil pump unit, low noise, stable oil circuit without impact;

● Equipped with a universal ball head automatic centering mechanism to ensure the absolute centering of the upper and lower chuck after the sample is stressed.

The main technical parameters

model / specification	WAW-100	WAW－300	WAW－600	WAW－1000	WAW－2000	WAW－3000
Maximum test force	100kN	300kN	600kN	1000kN	2000kN	3000kN
Host machine structure type	Two column type	Two column type	Four column type	Four column type	Four column type	Four column type
Force display accuracy	Level 0.5 or level 1 (can reach level 0.25 according to user requirements)					
Grading of test force	The whole process is not divided into different grades					
Load resolution (kN)	1/500000 of full scale					
Effective measuring force range (kN)	0.2%～100% of the maximum test force					
Deformation indication accuracy	Better than ±0.5%					
Deformation resolution	2					

(μm)							
Relative error of displacement indication		Better than ±1%					
Stress control speed (Mpa/s)		1～45					
Strain control speed (mm/s)		0.001～0.5					
Displacement control speed (mm/s)		0.02～3					
test space	Stretching space (mm)	600	600	600	650	750	800
	Compressed space (mm)	550	550	550	580	650	700
	Effective width (mm)	460	460	500	520	650	750
	Oil cylinder stroke (mm)	200	200	250	250	250	250
Host machine size (Mm)	Lower cylinder type (double space)	720×580 ×1770	720×580 ×1770	800×620 ×2050	860×660 ×2170	950×620 ×3000	1100×750 ×3100
	Top-mounted cylinder (single space)	850×540 ×2600	850×540 ×2600	980×640 ×3100	1100×720 ×3700	1300×900 ×4300	1300×900 ×4300
Round sample size (mm)		Φ5～Φ20	Φ10～Φ32	Φ13～Φ40	Φ20～Φ60	Φ20～Φ70	Φ20～Φ100
Flat sample size (thickness × width mm)		0～15×75	0～15×75	0～30×80	0～40×110	10～60×120	10～80×120
Total power of power supply (kw)		2.1	2.1	2.3	2.3	3.5	5
weight（kg）		1500	1500	2500	3100	5000	6500

LAW series microcomputer controlled electro-hydraulic servo steel strand tensile testing machine

The LAW series microcomputer-controlled electro-hydraulic servo steel strand tensile testing machine is mainly used to test and analyze the tensile strength of the pre-stressed steel strand. The whole machine is composed of host machine, electro-hydraulic servo-controlled hydraulic source, and computer data acquisition and processing system. In addition to the functions of the conventional hydraulic universal testing machine, it is mainly used for the tensile test of the steel strand. The test operation and data processing meet the requirements of GB/T5224-1995 "Prestressed Concrete Steel Strand".

Performance characteristics

●Automatic control, measurement, data acquisition and processing, drawing and printing test curves and test reports;

●Automatic calibration and zero adjustment of the measurement and control system;

●Test force, deformation, displacement and other speed control, the control error is better than ±0.5% of the set value;

●Stepless speed regulation, control speed and control mode can be arbitrarily smoothly switched and maintained during the test;

●Data storage and curve enlargement, different test curves can be displayed arbitrarily during the test;

●During the automatic operation of the program, it can be converted to manual control at any time, and the control mode and control speed can be manually adjusted;

●Test force overload automatic protection function, the protection range can be set arbitrarily;

●It can be connected to the microcomputer between the laboratories for easy management.

Outstanding excellent configuration

●Hand-automatic integrated control operation mode, which can be operated automatically by computer or manually, which greatly improves work efficiency and reduces the labor intensity of operators;

●Hydraulic automatic tightening, the special jaw clamp seat and jaw splint for steel strand are designed to ensure that the steel strand is clamped firmly without slipping, so that the steel strand can be broken in the middle;

●Using the spoke type load cell to directly measure the actual force value of the sample, the measurement is accurate and reliable, avoiding the influence of hydraulic sensor measurement because of the force value drift caused by the oil temperature measured and

the friction between the piston and cylinder on the test force;

●Equipped with a large gauge length electronic extensometer with a gauge length of 500mm to ensure the accuracy of the deformation measurement of the steel strand;

●Using precision plunger oil pump unit, low noise, stable oil circuit without impact;

● Equipped with a universal ball head automatic centering mechanism to ensure the absolute centering of the upper and lower chuck after the sample is stressed.

LEW series microcomputer screen display type steel strand tensile testing machine

The main purpose

LEW series microcomputer screen display steel strand tensile testing machine is mainly used to test and analyze the tensile strength of prestressed steel strand. The whole machine is composed of host machine, hydraulic source, computer data acquisition and processing system, etc., in addition to the conventional hydraulic universal testing machine function , it is mainly used for tensile testing of steel strands. The test operation and data processing meet the requirements of GB/T5224-2003 "Prestressed Concrete Steel Strand".

Outstanding excellent configuration

Hydraulic automatic compression, spoke load cell, 500mm large gauge electronic extensometer, precision plunger oil pump, universal ball head automatic centering mechanism.

The main technical parameters

model / specification		LAW-600	LAW-1000	LEW-600	LEW-1000
Maximum test force		600kN	1000kN	600kN	1000kN
Host structure type		Four column type	Four column type	Four column type	Four column type
Force display accuracy		Better than ±0.5%		Better than ±0.5%	
Grading of test force		no division in the whole process			
Load resolution (kN)		1/500000 of full scale		1/500000 of full scale	
Effective force measuring range (KN)		0.2%～100% of the maximum test force		2%～100% of the maximum test force	
Deformation indication accuracy		Better than ±0.5%		Better than ±0.5%	
Deformation resolution (μm)		2		2	
Relative error of displacement indication		Better than ±0.5%		Better than ±0.5%	
Stress control speed (Mpa/s)		1～45		____	____
Strain control speed (mm/s)		0.001～0.5		____	____
Displacement control speed (mm/s)		0.02～3		____	____
test space	Stretching space (mm)	1100		1100	
	Compressed space (mm)	____		____	
	Effective width (mm)	500		500	
	Oil cylinder stroke (mm)	250		250	
Host machine size（mm）	Lower cylinder type (double space)	800×620×H	860×660×H	800×620×H	860×660×H
	Top-mounted cylinder (single space)	980×640×H	1100×720×H	980×640×H	1100×720×H
Steel strand clamping diameter (mm)		Φ9～Φ24	Φ9～Φ30	Φ9～Φ24	Φ9～Φ30
Clamping diameter of round steel specimen (mm)		Φ10～Φ30	Φ10～Φ35	Φ10～Φ30	Φ10～Φ35
Total power of power supply		2.3	2.3	2.3	2.3

(kw)				
Weight (kg)	2500	3100	2500	3100

WEW series

Computer screen display hydraulic universal testing machine

The main purpose

WEW series microcomputer screen display hydraulic universal testing machine adopts main machine with lower placed cylinder, equipped with oil pump motor unit and an oil source, hydraulic automatic clamping, easy operation, and additional accessories can expand the test range. This testing machine is mainly used for tensile, compression, bending and shearing tests of metals and non-metals such as plastics, concrete, cement, etc. The computer screen display, parameters such as Fm, ReH, ReL, RP0.2, RP1, Rm, and

elastic modulus E can be automatically obtained in accordance with the requirements of GB/T228 "Metal Material Room Temperature Tensile Test Method".

Outstanding excellent configuration

Hydraulic automatic clamping, spoke type load cell, precision oil pump unit, universal ball head automatic centering and centering mechanism.

The main technical parameters

model / specification		WEW－100	WEW－300	WEW－600	WEW－1000	WEW－2000	WEW－3000
Maximum test force (kN)		100	300	600	1000	2000	3000
Host structure type		Two column type	Two column type	Four column type	Four column type	Four column type	Four column type
Force indication accuracy		Better than ± 1% (can reach ± 0.5% according to user requirements)					
Grading of test force		The whole process is not divided into grades, equivalent to four grades					
Effective measuring force range (kN)		2%～100% of the maximum test force					
Deformation indication accuracy		Better than ±0.5%					
Deformation resolution (μm)		2					
test space	Stretching space (mm)	600	600	600	650	750	800
	Compressed space (mm)	550	550	550	580	650	700
	Effective width (mm)	460	460	500	520	650	750
	Oil cylinder stroke (mm)	200	200	250	250	250	250
Host machine size (mm)		720×580×1770（Up to 1970）	720×580×1770（Up to 1970）	800×620×2050（Up to 2300）	860×660×2170（Up to 2420）	950×620×3000（Up to 3300）	1100×750×3100（Up to 3400）
Bending test fulcrum		30～450	30～450	30～480	40～480	60～500	60～500

distance (mm)						
Shear test section size (mm)	Φ10	Φ10	Φ10	Φ10	Φ20	Φ20
Round sample size (mm)	Φ5～Φ20	Φ10～Φ32	Φ13～Φ40	Φ20～Φ60	Φ20～Φ70	Φ20～Φ100
Flat sample size (thickness × width mm)	0～15×75	0～15×75	0～30×80	0～40×110	10～60×120	10～80×120
Total power of power supply (kw)	2.1	2.1	2.3	2.3	3.5	5
Weight (kg)	1500	1500	2500	3100	5000	6500

WEW-B series

Computer screen display hydraulic universal testing machine

WAW-C series

Computer controlled electro-hydraulic servo universal testing machine (C type machine)

WEW-C series

Computer control screen display hydraulic universal testing machine

(C type machine)

WES-B series liquid crystal display hydraulic universal testing machine

WDN series multifunctional comprehensive mechanical testing machine

YAW-300Y series microcomputer controlled rock indentation hardness testing machine

The main purpose

YAW-300Y series rock indentation hardness tester is mainly used to measure the tensile strength, compression test, rock hardness and other parameters of rock according to the

national test standards of rock hardness and tensile strength.

It can also test the constant pressure, compressive strength, and flexural strength of cement and other building materials. It consists of three major units: electric type host machine, controller, and computer control system, It can fully meet the requirements of GB / t17671-1999 "testing methods for cement mortar strength (ISO method)" for the loading rate of cement strength test, and solves the closed-loop control of cement loading.

The equipment is equipped with protection functions such as mechanical limit protection, overload automatic shutdown protection, overcurrent and leakage automatic power-off protection, and emergency switch.

The main technical parameters

model / Specifications	YAW-300Y
Maximum test force (kN)	300
Test force accuracy	优于±1％
Grading of test force	the whole process is not divided into grades, equivalent to the fourth grades
Constant pressure accuracy	±1％
Test force measurement range (kN)	2%～100% of the maximum test force
Loading speed (kN/s)	1～10
Loading speed accuracy	Better than ±5% of the set value
Upper platen size (mm)	Φ125-180
Lower platen size (mm)	250×250
Upper and lower platen distance (mm)	260
Effective maximum stroke (mm)	150
Dimensions (mm)	1120×660×1650
Configuration	1 set of host machine, PC control and measurement and control software (KQL-PowerTest Chinese version intelligent test software package) 1 set, 1 set of compression attachment, 1 set of special pressure-resistant mold for cement sample, rock hardness test head diameter: Φ1 .5mm, Φ2.0mm, Φ3.0mm for each set.

YAW-300/600 series microcomputer controlled constant stress pressure testing machine

YAW-300C series microcomputer controlled compressive and flexural testing machine

The main purpose

The YAW-300/600 testing machine is mainly used for the compressive strength test of cement and other building materials. The machine is composed of three major units: mechanical host machine, controller, and computer control system, It can fully meet the requirements of GB / t17671-1999 "testing methods for cement mortar strength (ISO method)" for the loading rate of cement strength test, and solves the closed-loop control of cement loading. Equipped with necessary grips (fixtures), it can also be used for constant velocity loading compressive strength test of bricks, stones and other materials.

This machine has various functions such as full-automatic constant-speed loading, digital display of force value, automatic data processing, printing and output of loading curve

and test report, data storage and query in the stage. Simple operation and stable performance. It is the latest testing equipment for compressive strength testing in the cement industry. The testing data and results are authoritative and scientific. It is an ideal testing equipment for the cement and building materials industry.

The YAW-300C testing machine is an improved model of the YAW-300 constant load cement pressure testing machine. Its main purpose is to test the compressive and flexural strength of cement. It adopts a double-station test space and it can complete all the operation procedures of the cement compressive strength and flexural strength test on one machine. It has the advantages of dual-purpose, space saving, simple operation and convenient maintenance.

The main technical parameters

model / specification	YAW-300	YAW-600	YAW-300C
Maximum test force (kN)	300	600	300/10
Test force accuracy	Better than ±1% / ±0.5%		
Grading of test force	the whole process is not divided into grades, equivalent to the fourth grades		
Constant pressure accuracy	±1％ / ±0.5％		
Test force measurement range (kN)	6～300	12～600	6～300 / 2～10
Loading speed (kN/s)	1～10		
Accuracy of loading speed	Better than ±5% of the set value		
Upper pressure plate size (mm)	Φ125	Φ180	Φ125
Lower pressure plate size (mm)	175×175	250×250	175×175
Distance between upper and lower platens (mm)	250	255	250
Effective maximum stroke (mm)	120	150	120
Power supply	220V±10％，50Hz		
Whole machine form	双柱式		

Dimensions (mm)	630×400×1530	700×500×1650	630×400×1530

YAW microcomputer controlled constant stress pressure testing machine

YES digital display building material pressure testing machine

The main purpose

YAW-2000/3000 testing machine is mainly used for compressive strength test of cement and other building materials. The machine is composed of three major units: hydraulic main machine, controller, and computer control system. It can fully meet the requirements of GB/T50081-2002 "Standard for Test Methods for Mechanical Properties of Ordinary Concrete Cement", and it solves the closed-loop control of cement loading. Equipped with necessary grips (fixtures), it can also be used for constant velocity loading compressive strength test of bricks, stones and other materials.

This machine has various functions such as full-automatic constant-speed loading, digital display of force value, automatic data processing, printing and output of loading curve and test report, data storage and query in the stage. Simple operation and stable

performance. It is the latest testing equipment for compressive strength testing in the cement industry. The testing data and results are authoritative and scientific. It is an ideal testing equipment for the cement and building materials industry.

YES digital display pressure test force adopts hydraulic loading, electronic force measurement, and has the functions of load display, loading rate display, load peak retention, overload protection and power failure data retention.

The main technical parameters

model / specification	YAW-1000	YAW-2000	YAW-3000	YES-2000	YES-3000
Test force measurement range (kN)	40～1000	80～2000	120～3000	80～2000	120～3000
Test force measurement accuracy	±0.5％ /±1％				
Loading speed (kN/s)	1～10			____	
Accuracy of loading speed	Better than ±5% of the set value			____	
Pressure plate size (mm)	Φ220	Φ300	Φ340	Φ300	Φ340
Distance between upper and lower platens (mm)	500	500	500	320	320
Maximum stroke of piston (mm)	100	100	100	50	50
Moving beam adjustment method	Electric adjustment			manual adjustment	
Power supply	380V±10％，4.5kw/5.0kw			380V±10％，1.2kw/1.5kw	
dimensions of the host machine (L×W×H) (mm)	800×580×1650	800×580×1650	800×580×1800	850×500×1640	850×580×1640
Machine weight (kg)	2000	2300	2550	1500	1500

YAW-C series

large space computer controlled hydraulic pressure testing machine

The main purpose

This series of products is mainly used for the compression test of building materials, building components and metal components, and can also be used for the verification of the compression test of jacks. The machine is composed of four main units: host machine, hydraulic source, controller and computer control system. It has fully automatic constant speed loading, digital display of force value, automatic data processing, printout of loading curve and test report, and data storage and Query in the stage and other functions. It is an ideal test equipment for colleges, scientific research institutes, building quality inspection stations and large factories and mines.

●Four-column structure, the movable beam can adjust the test space electrically, can be equipped with large pressure plate and large compression space, or can be made according to user needs.

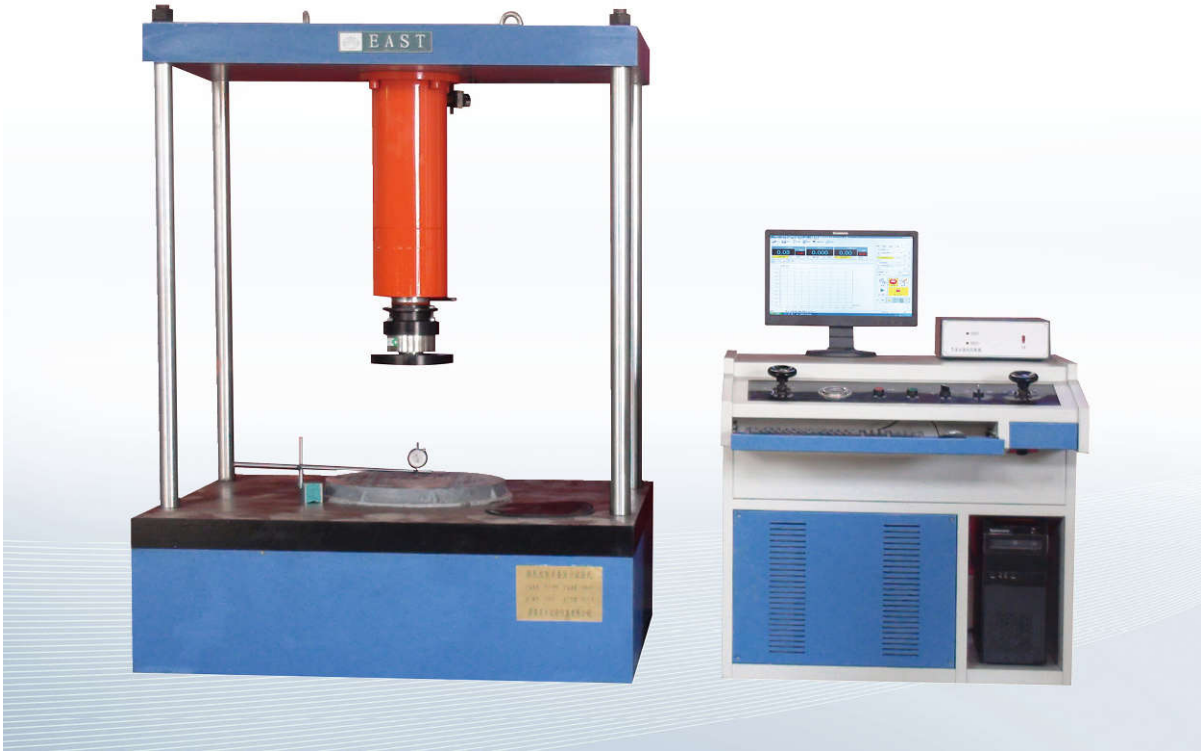
●The lower pressure plate of the large-sized pressure testing machine is designed as a trolley-type structure, which is convenient and fast for loading and unloading operations.

The main technical parameters

model / specification	YAW-2000C	YAW-3000C	YAW-5000C	YAW-10000C
Test force measurement range (kN)	80～2000	120～3000	200～5000	400～10000
Test force measurement accuracy	±0.5％ /±1％			
Loading speed (kN/s)	1～10			
Accuracy of loading speed	Better than ±5% of the set value			
Host machine structure	Four column type			
Adjustment mode of moving beam	Four lead screw electric adjustment			
Compressed space (mm)	500 (can be made according to user requirements)		800 (can be made according to user requirements)	
Pressure plate size (mm)	400×400		500×500	800×800
Column spacing (mm)	550		650	1000
Maximum stroke of piston (mm)	100		100	100
Concrete (rock) elastic modulus	Scalable configuration			

Total power	5.0kw	7.5kw	11kw
Host machine(L×W×H)(mm)	800×580×1800	1150×900×2500	1600×2000×3000
working environment	Room temperature 10℃～30℃, relative humidity no more than 80%		
Machine weight (kg)	3800	8500	15000

YAJ-600/1000 Microcomputer control manhole cover pressure testing machine



The main purpose

The test machine is suitable for the compression and bending strength test of the manhole cover, and can meet CJ/T3012-1993 "cast iron inspection manhole cover", CJ/T121-2000 "recycled resin composite material inspection manhole cover" and JC889-2001 "steel fiber concrete inspection manhole cover" And other relevant professional standards. The four-column frame structure is adopted, the hydraulic cylinder is placed on the upper part of the main machine, the upper end of the working piston is equipped with a spherical

pressure plate, and the residual deformation of the manhole cover is measured in real time by a movable dial gauge mounted on the magnetic meter base. The effective size of the work surface is up to 1200x1200mm, which is suitable for the compression and flexural test of various parts such as manhole cover, veterinary floor and gutter cover.

The main technical parameters

Maximum test force	600kN	1000kN
Test force measurement range	2%～100%全程不分档	
Test force accuracy	优于±1%	
Loading speed	1kN/s～10kN/s	
Accuracy of loading speed	Better than ±5% of set value	
Constant test force to maintain accuracy	±1% of the set value;	
Deformation measurement accuracy	0.01mm	
Maximum piston stroke	400mm	
Maximum compression test space	400mm	
Upper pressure plate size	Φ350	
Lower table size	1250x1250mm	
Protective function	Automatic shutdown when the maximum test force exceeds 2%～5%	
Power	AC380V50Hz，1.1KW	AC380V50Hz，1.5KW
Host size	1400x1360x1800mm	1400x1360x1800mm
Test machine weight	2200Kg	2500Kg

YJW series microcomputer controlled electro-hydraulic servo compression shear testing machine

The main purpose

This machine is based on "General Technical Requirements for Testing Machines" GB/T2611-2007, "Highway Bridge Plate Rubber Bearings" JT/T4-2004, "Highway Bridge Basin Rubber Bearings" JT391-2009, "Spherical Bearings" GB /T17955-2009 standard requirements development, in line with "Tensile, pressure and universal testing machine verification regulations" JJG139-1999 standard manufacturing. It is specially used to test the mechanical performance test of finished highway bridge plate rubber bearing.

This machine adopts electro-hydraulic servo control system, friendly man-machine interface, can automatically load continuously and steadily, automatically maintain load, automatically collect data, store, draw curves, and automatically print test reports. It can

conduct compression elastic modulus test and shear elasticity. Modulus test, allowable shear angle test, ultimate compressive strength test, friction coefficient test, shear bonding performance, shear aging, PTFE plate and stainless steel plate friction coefficient, corner, ultimate compressive strength, allowable corner test and Detection of axial compression and radial deformation under load test of bridge basin rubber bearings.

The testing machine is mainly composed of five parts: ①Microcomputer controlled three-channel full digital electro-hydraulic servo coordinated loading control system; ②Dynamic thrust electro-hydraulic servo actuator; ③High-precision hydraulic servo oil source; ④Containing high and low pressure accumulators , On-off valve, oil filter, pressure gauge, proportional valve control mechanism's oil separator and hydraulic piping system; ⑤Four-column frame that can carry vertical and horizontal test forces.

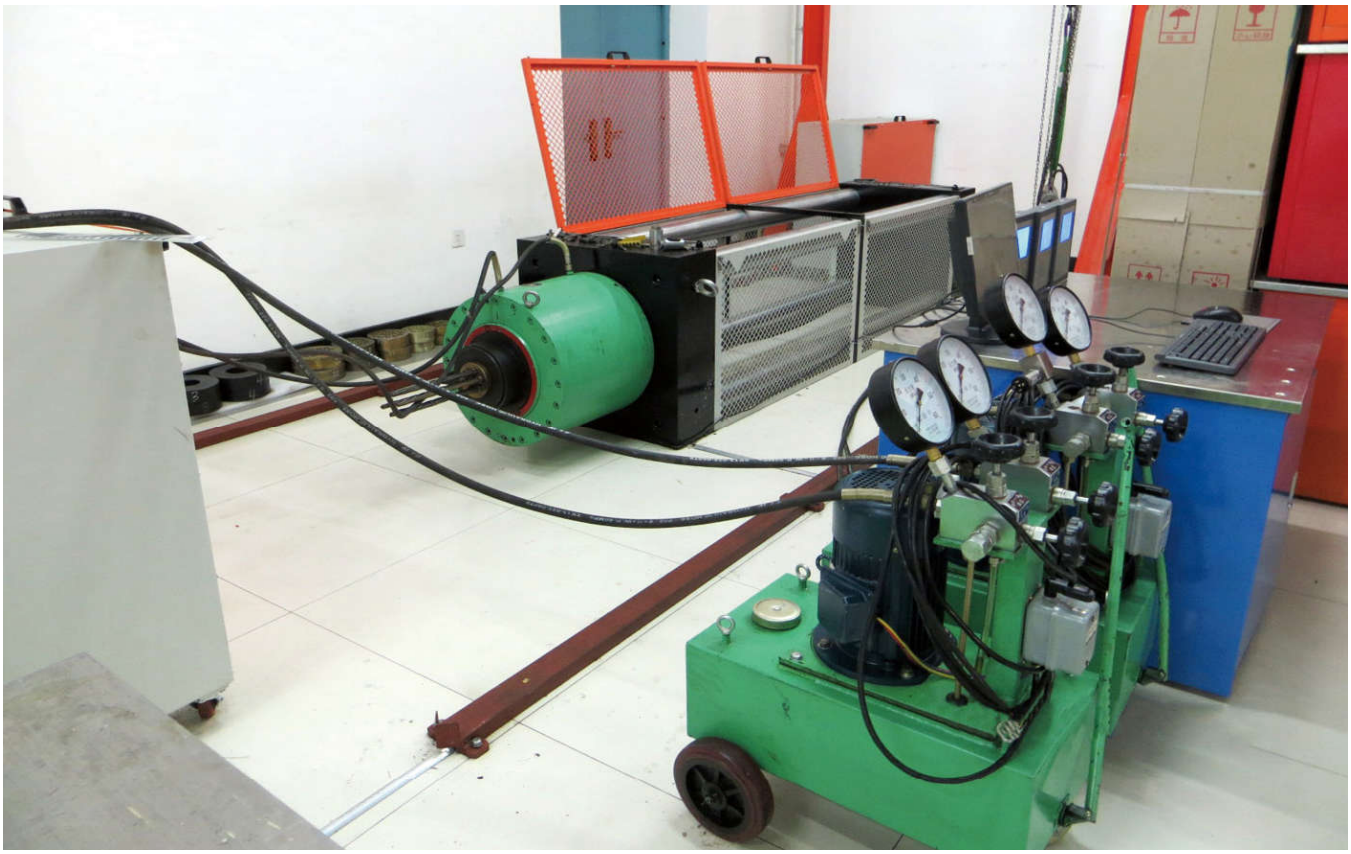
The main technical parameters

model / specification	YJW-5000	YJW-8000	YJW-10000
Maximum axial test force (kN)	5000	8000	10000
Maximum test force in shear direction (kN)	1000	1600	2000
Maximum test force of rotation angle (kN)	500	800	1000
Test force indication accuracy	Better than ±1% of indicated value		
Test measurement range	0.4%～100%FS		
Maximum space of compression surface (mm)	1000	1200	1200
Column spacing (mm)	1000×650	1080×650	1200×800
Press plate size (mm)	900×600×120	900×600×150	1000×1000×200
Axial/shearing piston stroke (mm)	80/150	80/150	80/150

Axial/radial deformation measurement range (mm)	0～10(resolution 0.001mm)		
Total power (kw)	13	20	22

WGG series

computer-controlled hydraulic static load anchoring test machine



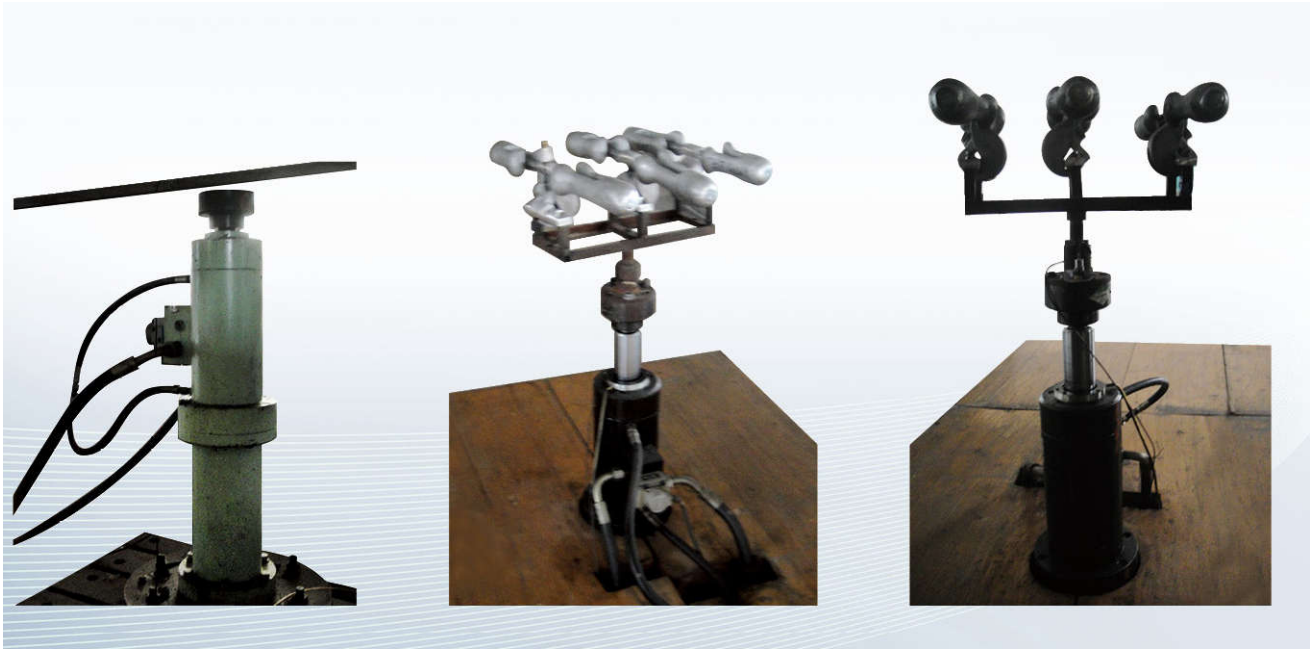
SDL series

microcomputer controlled relaxation testing machine for steel strand

MEP series

microcomputer controlled electro-hydraulic servo fatigue testing machine

(dynamic and static universal testing machine)



The main purpose

Electro-hydraulic servo fatigue testing machine is mainly used for metal and non-metal, alloy steel, composite materials and their components (such as operating joints, fixing parts, spiral moving parts, etc.), non-metallic components, concrete components, titanium alloys and reinforced synthetic fibers etc. materials at room temperature fatigue properties, fatigue life, pre-cracking and crack propagation, fracture mechanics, physical test and simulation test of tensile compression or tensile compression alternating load. After the corresponding test fixture is equipped, the three-point bending test, four-point bending test, sheet tensile test, interactive bending fatigue test, CT test, and CCT test can be performed. The main unit adopts two-column or four-column movable cross-beam structure, and the loading actuator is placed below or above. The machine has good rigidity, compact structure, fine processing and simple and elegant appearance. Servo actuators can be combined with different worktables to perform various fatigue tests on various components and components.

The equipment system is mainly composed of main frame, electro-hydraulic servo hydraulic system, dynamic testing software, static testing software, hydraulic fatigue fixture, bending fatigue fixture, COD gauge, extensometer, CT fixture, water cooling system, computer and electronic control.

The electro-hydraulic servo fatigue testing machine is equipped with full digital electro-hydraulic servo fatigue test control system and an intelligent self-diagnosis system. It can periodically perform a self-test on the measurement system and the servo drive system, which fully guarantees that the test machine in any environment and state can be long-term stability . non-interfering, safe and reliable operation, to achieve

unmanned monitoring test, it is the ideal test equipment for the department of mechanical manufacturing, aerospace, electric power research, construction and building materials, ship traffic, technical supervision, commodity inspection and arbitration, industrial and mining enterprises, universities, research institutes, etc..

The main technical parameters

Model / Specifications	MEP-10	MEP-20	MEP-50	MEP-100	MEP-200	MEP-500	MEP-1000
Maximum test dynamic load (kN)	±10	±20	±50	±100	±200	±500	±1000
Load range	10%、20%、50%、100%						
Load measurement accuracy	better than ±0.5% of the indication value						
Strain measurement accuracy	better than ±0.5% of the indication value						
Load weighing accuracy	±0.5% of the set value or 0.005% of the load cell capacity (1%-100%), whichever is greater						

Actuator stroke		±75mm	±75mm	±75mm	±75mm	±75mm	±75mm	±75mm
Actuator working pressure		≥210Bar						
Actuator displacement accuracy		better than ±0.2% of stroke						
Frequency range		0.001～50Hz(expandable to 100 Hz)						
test Wave form	basic configurati	sine wave, triangle wave, square wave						
	Extended configurati	trapezoidal wave, ramp wave, block wave, random wave						
Standard frame form		Double column, actuator up or actuator down					4 column, actuator up or actuator down	
Hydraulic fatigue Fixture	Dynamic	≥±10	≥±20	≥±50	≥±100	≥±200	≥±500	≥±1000
	Static	≥±15	≥±30	≥±75	≥±150	≥±300	≥±750	≥±1500
Bending fatigue Fixture (optional)	Dynamic (kN)	≥±10	≥±20	≥±50	≥±100	≥±200	≥±500	≥±1000
	Pressing roller (mm)	Φ15	Φ15	Φ15	Φ25	Φ25	Φ30	Φ30
	Span	250	250	250	250	250	350	350
CT25 fixture (optional)		Dynamic≥±50 kN Static≥±100 kN						
Test space (H×W) (mm)		450×350	450×350	500×500	500×600	600×600	750×600	750×700
Mainframe dimensions (L×W×H)(mm)		800×500 ×1800	800×500 ×1800	1000×650 ×2430	1130×730 ×2430	1150×750 ×2650	1250×850 ×2950	1350×1350 ×3250
Machine weight (kg)		1500	1500	1800	3000	4000	7000	10000
Hydraulic source	Basic configurati	10L/min	10L/min	30L/min	30L/min	63L/min	63L/min	160L/min
	Expansion configurati	30L/min、63L/min、160L/min、200L/min						
	Total	30L/min(25kw)、63L/min(40kw)、160L/min(75kw)、200L/min(90kw)						
Working environment		+10°C to +38°C, humidity: 10% to 90% (non-condensing)						
UPS power supply (optional)		Single-phase 180-264V, 45/65/50Hz, maximum power 800VA						

JEP-2 microcomputer control spacer hydraulic vibration table

JAW-50 computer-controlled electro-hydraulic servo spacer rod multi-point coordinated loading test system

WSZ series electro-hydraulic servo multi-channel loading (static load or dynamic load) test system

RDL series microcomputer controlled creep relaxation testing machine

The main purpose

This testing machine is mainly used to measure the creep or relaxation performance test of various metals and alloy materials under high temperature environment. It can also be used for endurance tests. This machine can test and provide data according to GB/T2039-1997, GB/T4338-1995, HB5051-1996 and other standards.

●Use servo motor and ball screw for loading instead of lever type high temperature creep endurance testing machine, avoiding the complicated problem of lever weight type loading operation.

●The adopted control system has multiple control functions such as force control, deformation control, speed control, etc., with high control precision and accurate force value. And can draw the loading curve automatically and accurately.

●The test force measurement and control adopts 500,000 yards, the whole process

without grades technology, and the measurement and control accuracy is high.

●Imported force sensor with high accuracy, good reliability and high stability.

●Imported brand-name servo motors and servo drives are used to effectively ensure the performance of the whole machine.

●With manual function, it can be manually unloaded to protect the machine, especially the force sensor when the power fails.

●It can be equipped with backup power supply to provide automatic power failure protection.

The main technical parameters

<table>
<tr><th>model
specification</th><th>RDL-10</th><th>RDL-20</th><th>RDL-30</th><th>RDL-50</th><th>RDL-100</th><th>RDL-300</th><th>RDL-500</th></tr>
<tr><td>Maximum test force</td><td>10kN</td><td>20kN</td><td>30kN</td><td>50kN</td><td>100kN</td><td>300kN</td><td>500kN</td></tr>
<tr><td>Test force measurement range</td><td colspan="7">2% ~ 100% of full scale</td></tr>
<tr><td>Test force measurement accuracy</td><td colspan="7">Better than ±0.5%</td></tr>
<tr><td>Test force resolution</td><td colspan="7">1/500000 of full scale</td></tr>
<tr><td>Deformation measurement error</td><td colspan="7">Better than ±0.5%</td></tr>
<tr><td>Deformation resolution</td><td colspan="7">±0.002 mm</td></tr>
<tr><td>Deformation measurement range</td><td colspan="7">0 ~ 10 mm</td></tr>
<tr><td>Maximum stroke of pull rod</td><td colspan="7">200mm</td></tr>
<tr><td>Pull rod speed</td><td colspan="7">0.01 ~ 50mm/min</td></tr>
<tr><td>Overall dimension of main machine (mm)</td><td colspan="4">710×540×2200</td><td>730×540×2400</td><td colspan="2">950×740×3200</td></tr>
<tr><td>Host machine weight</td><td colspan="2">400kg</td><td colspan="2">500kg</td><td>600kg</td><td>1000kg</td><td>1200kg</td></tr>
<tr><td rowspan="2">High temperature atmospheric furnace</td><td>temperature range</td><td>Thermogenic capacity</td><td>average torrid zone</td><td>Temperature ladder</td><td>Temperature fluctuation</td><td>Furnace size</td><td>Outer chamber size</td></tr>
<tr><td>300 ~ 1000℃</td><td>1200℃</td><td>150mm</td><td>3℃</td><td>±2℃</td><td>Φ80×Φ340mm</td><td>Φ320×Φ440 mm</td></tr>
</table>

RDW series microcomputer controlled large cross-section overhead conductor creep testing machine (horizontal)

Underground engineering physical simulation experiment system

WAL series microcomputer controlled electro-hydraulic servo horizontal tensile testing machine

The main purpose

This machine is mainly used for tensile test under rated test force. It can test the tensile strength test of steel wire rope, optical cable, cable, anchor chain, bar, plate and other materials.

●Clamping device: Determined according to user requirements.

●Space adjustment: The test space adopts manual or electric adjustment.

●Fixed moving beam: fixed with manual bolt or hydraulic automatic pull bolt.

●Range switch: Automatically change the range as the test force increases during the test.

●Automatic storage: test conditions and test results are automatically stored.

●Automatic calibration: load and deformation can be automatically calibrated according to standard values.

●Dynamic display: During the test, load, elongation, loading, speed and test curve are

displayed dynamically.

●Continuous test: After setting the parameters of a batch of samples, it can be tested continuously.

●Data editing: After the test is completed, the mouse can be used to edit the data on the test curve.

●Curve comparison: The curves of the same group of samples can be superimposed and compared.

●Partial enlargement: Any section on the test curve can be locally enlarged and analyzed.

●Multiple protection: with software and hardware protection, travel protection, overload protection.

The main technical parameters

model / specification	WAL-300 WEL-300	WAL-500 WEL-500	WAL-1000 WEL-1000	WAL-2000 WEL-2000	WAL-3000 WEL-3000	WAL-5000 WEL-5000	WAL-10000 WEL-10000
Effective measuring range (kN)	6 ~ 300	10 ~ 500	20 ~ 1000	40 ~ 2000	60 ~ 3000	100 ~ 5000	200 ~ 10000
Indication value accuracy	Better than ±0.5% / ±1%						
Stress control speed (Mpa/s)	1 ~ 45						
Strain control speed (mm/s)	0.001 ~ 0.5						
Displacement control speed (mm/s)	0.02 ~ 3						
Stretching space (mm)	According to user requirements						
Piston stroke (mm)	According to user requirements						
Power (kw)	2.2	3.0	4.2	5.5	7.5	10	15
Remarks	Stretching space, piston stroke can be customized according to the user requirements						

WEL series computer screen display hydraulic horizontal tensile testing machine

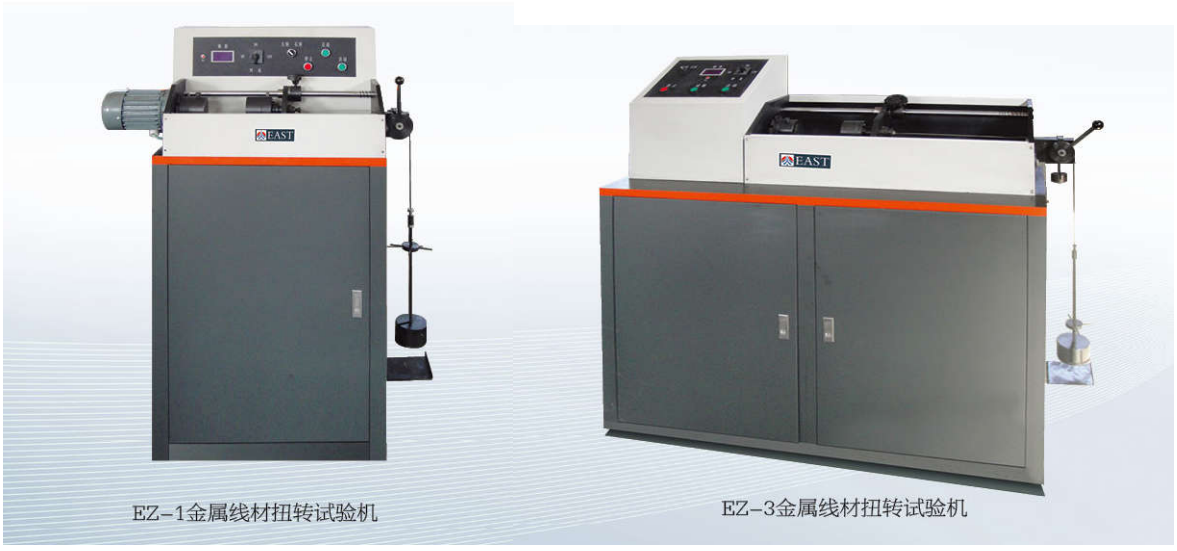
Two-cylinder horizontal tensile testing machine (Coal mine narrow gauge vehicle connector tensile testing machine)

This horizontal tensile testing machine is mainly used for the tensile test and residual deformation measurement of the connecting parts of coal mine narrow-gauge vehicles,

including single-ring chains, double-ring chains, three-ring chains, multi-ring chains, universal chains, connecting pins, etc. It is fully compliant with MT244. 1-2005 "Coal Mine Narrow Gauge Vehicle Connector Connection Chain" and MT244.2-2005 "Coal Mine Narrow Gauge Vehicle Connector Connection Bolt" standard requirements; it can also be used for the tensile test and deformation measurement of other connectors and components. It is the ideal inspection equipment for power enterprises, coal mine machinery and equipment, safety production inspection institutes, technical supervision and other industries.

WNJ Computer controlled torsion testing machine series

EZ series metal wire torsion testing machine



JRT-6 Carbon Fiber Composite Mandrel Winding Test Machine

GW-40/50 Rebar Bending Testing Machine

Electric metal wire repeated bending test machine

NSD type electric torque tester

The main purpose

Mainly used for torque measurement and verification of torque wrenches (including pointer wrenches, fixed force wrenches, torque screwdrivers, etc.). It can also measure the torque value of open wrenches, adjustable wrenches and other aspects. It is widely used in aerospace, automobiles, locomotives and motorcycles, diesel engines, washing machines and construction machinery industries.

main feature

Electric loading, the loading speed is steplessly adjustable, the test force is digitally displayed, with normal and peak display functions; one machine can be equipped with sensors of various specifications; the measuring sensor can be moved back and forth according to the length of the tested wrench. It is connected with the wrench with a 36-tooth coupling sleeve, which can be converted according to the different directions of the wrench.

Main technical conditions

●Maximum torque 300N·m, 500N·m, 1000N·m, 2000N·m,

3000N·m, 5000N·m, 10000N·m

●Measuring range: from 10% to 100% of the maximum torque; measurement accuracy: ±1%

●Outer size: 1000×500×1200mm

●Power supply: 220V±10%

●Weight: 150kg

NSJ type mechanical torque tester

main feature

Test force digital display, with normal and peak display functions; one machine can be equipped with sensors of various specifications; the handwheel is used to apply force evenly and easily, and the measuring sensor can move back and forth according to the length of the tested wrench. It is connected with the wrench with a 36-tooth coupling sleeve, which can be converted according to the different directions of the wrench.

Main technical conditions

●Maximum torque 300N·m, 500N·m, 1000N·m,

2000N·m, 3000N·m

●Measuring range: from 10% to 100% of the maximum torque; measurement accuracy: ±1%

●Outer size: 1000×500×1200mm

●Power supply: 220V±10%

●Weight: 100kg

NS type wall-mounted torque tester

main feature

Digital display, with normal and peak display functions; it can be hung vertically on the wall or fixed on the desktop horizontally, and the operation is simple and quick.

Main technical conditions

●Maximum torque 2N • m, 5N • m, 10N • m, 20N • m, 50N • m,

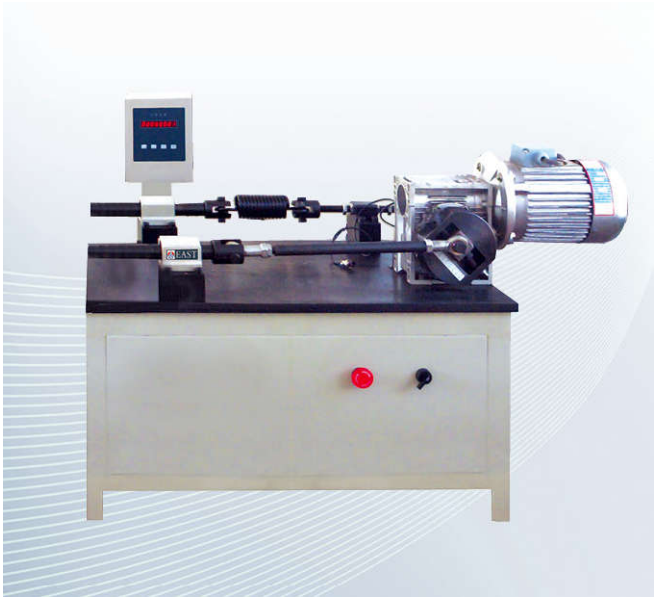
100N・m, 200N・m, 300N・m

●Measuring range: from 10% to 100% of the maximum torque; measurement accuracy: ±1%

●Outer dimensions: 300×200×2500mm

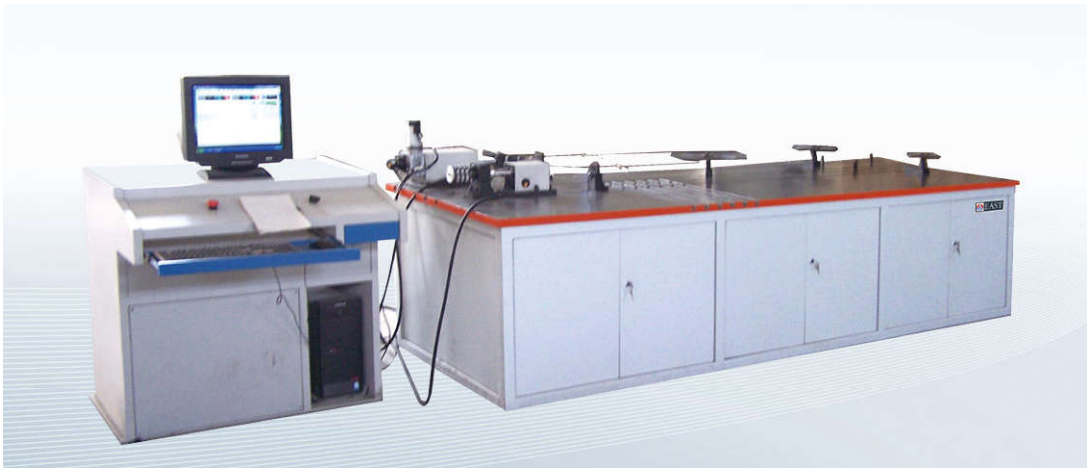
●Power supply: 220V±10%

QLN-5 cable durability test bench



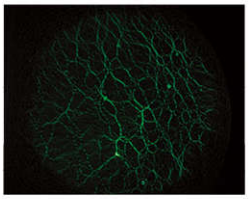
QLX-5 cable efficiency test bench

Computer controlled motorcycle and automobile cable efficiency test bench



Particulate matter biaxial photoelastic tester

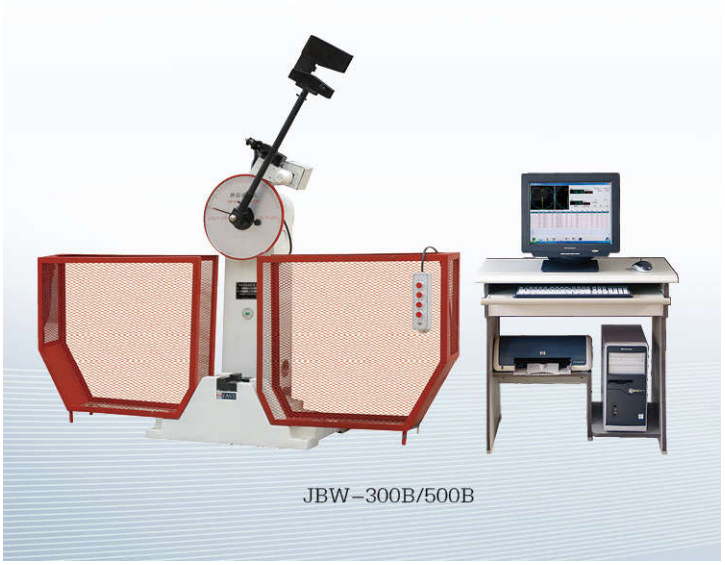
多轴加载界面

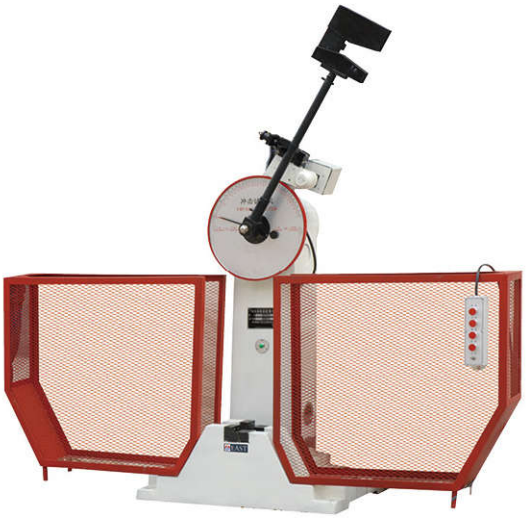


试验图像

Semi-automatic impact testing machine

Microcomputer screen display impact testing machine





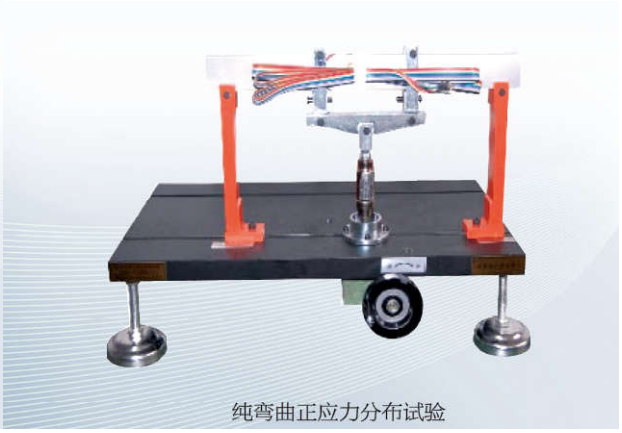
CSL-B electric and manual broaching machine

ST-50 Impact Specimen Notch Projector

DWC series impact test low temperature tank

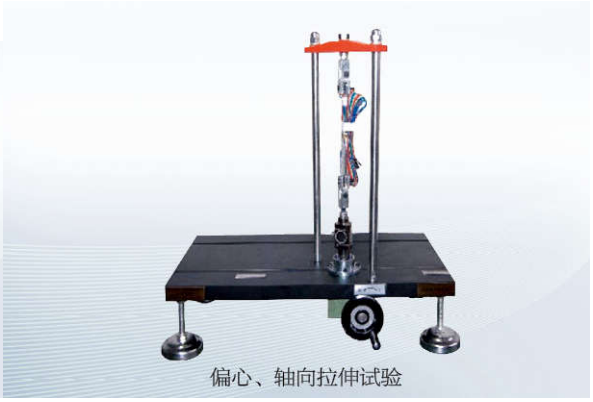
Material mechanics multifunctional test bench

等强度梁正应力试验

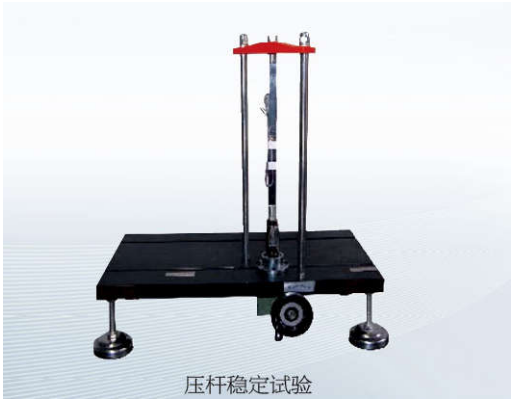


纯弯曲正应力分布试验

弯曲组合试验



偏心、轴向拉伸试验



压杆稳定试验