

Universal Testing Machine Series

Testing Systems


东莞市力显仪器科技有限公司

DONGGUAN LIXIAN INSTRUMENT SCIENTIFIC CO.,LTD

Lyxian 

www.lyxyantech.com



A man in a grey suit is walking across a tightrope that stretches across the top of the image. Below him is a vast cityscape with numerous skyscrapers and buildings. The sky is overcast with grey clouds, and a bright sun is visible in the background, creating a lens flare effect. The tightrope is a thin orange line, and the man is holding onto it with both hands. The overall scene conveys a sense of risk, precision, and high achievement.

Dongguan Lyxian Instrument Scientific Co., Ltd. was established in 2000, located in Dongguan City, Guangdong Province. The company mainly engaged in the design, production and sales of the reliability testing instruments such as mechanics, environment, rubber, footwear, packaging, luggage and so on. Mr. Xu Yongsan, the boss, is a highly skilled expert in this industry. And under his guide, the company won the honorary title of "High-tech Enterprises" in Guangdong Province in 2014. With the excellent product research and development and the diligent service after nearly 20 years of accumulation, we have become one of the pioneers in this profession and we have been always striving for high cost-effective testing equipments for each customer of Lyxian.

Lyxian 

Company Profile

Universal Material Testing Machine



With over **19 YEARS** of materials testing experience, **LYXYAN** company delivers impactful innovations to enable our users business to thrive. We are committed To delivering services which delight and usability improvements throughout the lifetime of the system.

LYXYAN Universal Testing Machine is a new material testing machine that combined with the electronic technology and mechanical transmission, it has accurate load speed, range of force measurement, Has high accuracy and sensitivity for the load, displacement measurement and control, it also can be tested the constant-velocity loading, constant- velocity displacement.



Own Factory

Located In WanJiang district Dongguan city , Guangdong province for 19 years



100+ Employees

Ahighly-educated, experienced, and diverse workforce



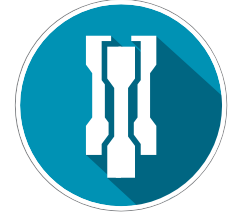
Representing **80 Countries**, speaking **40+ languages**



10,000+ systems installed worldwide



19+years of engineering and manufacturing test systems since 2000



Diverse product range for nearly all global markets and industries

TOUCH SCREEN UNIVERSAL TEST MACHINE

MODEL:HZ-1005A Tensile/Compression/Tear/Peel/Bending/Shear etc

- Tensile Strength
- Compression
- 90° Peel Force
- 180° Peel Force
- Adhesive Strength
- Shear Strength
- Tear Strength
- Bending



SPECIFICATIONS

HZ-1005A Touch screen UTM max 5KN

Single Column Tabletop Models Available:

50N,100N,200N,500N, 1kN, 2kN, 2.5KN,5KN Capacity(optional)



Main Function

This Series machine can be applied to test lots of materials in tensile , compression, tear, Adhesive Tape peel (90 degrees and 180 degrees) and other small mechanical test (within 5KN) , such as rubber, tires, belt, shoes, plastic, film, acrylic, FRP, ABS, EVA, PU, aluminum-plastic pipe, composite materials, waterproof materials, fibers, textiles, wire and cable, paper, gold foil, ribbons, thread, spring, wood, medicine packaging materials, tapes etc.

Model	HZ-1005A
Control Mode	Touch Screen Control
Maximum Load	50N,100N,200N, 500N, 1KN,2KN,2.5KN,5KN(optional)
Accurate Grade	1 grade / 0.5 grade
Effective Measuring Range	Force from 0.2% to 100% / from 0.4% to 100%
Measuring Accuracy	the value $\pm 1\%$ / the value $\pm 0.5\%$
Load Sensor	Basic configuration sensor max load: one
Effective Tensile Stroke	800mm (can be increased the tensile space according to customers requirement)
Testing Speed	From 0.01 to 500mm/min
Displacement Accuracy	Tolerance: $\pm 0.5\%$ / tolerance: $\pm 0.2\%$
Safety	Electronic-limit protection
Testing Olatform Moving Device	Fast /slow(two speeds to control),can jog
Overload Protection	Overload 10%, automatic protection
Machine Dimension	35x50x180cm (L*W*H)
Motor	Japanese“Panasonic” or Taiwan Delta servo motor and drive
Power Supply	220V , 50HZ or according to the requirement
Power	0.4KW (depending on different demand of force,using different motor)
Weight	About 180KG

Integration Aluminium Alloy Cover

Patented design, exclusive mold opening, beautiful and generous shape radian, solid and durable strength

Structure and Precision

Use stronger material, the average service life is 10-12 years, **0.5 LEVEL** High precision certificate, **New upgrade touch screen control, upgrade without price, more function.**

Experience and After-sales Service

19 years of production experience, the boss is also a technical engineer, 100+ professional technical personnel, Perfect after-sales service system, makes you look easy.

Patented Design

Structure Comparison

Manufacturing Technique

Patchwork Aluminium Alloy Cover

The same industry with aluminum alloy assembly, formalist appearance, the actual assembly has gaps, weak strength

Structure and Precision

Thin structure, large tonnage tension machine is not guaranteed, the workmanship is not exquisite, the test accuracy is less than 0.5, **traditional digital display, operation is limited.**

Experience and After-sales Service

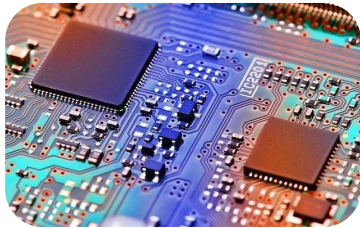
Many companies do not have physical factories, or small companies, late start, lack of experience, can not provide perfect after-sales service



APPLICATION INDUSTRY

Different Industry

It is widely used in wire and cable, hardware, electronic and electrical equipment, packaging, printing, medical equipment, textiles and leather, clothing, shoes, rubber and plastic products, colleges and universities; research laboratories; inspection arbitration, technical supervision departments and many other industries, it is the basic equipment for quality management and physical tested.



The Mainboard Chip



Wire and Cable



Package



Printing



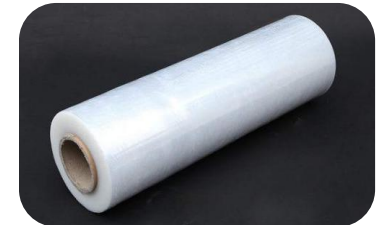
Mobile Phone



Water Bottle



Adhesive Tape



Film



Leather



Shoes



Ribbon



University and Quality inspection institute

Real Picture

In stock



TOUCH SCREEN

Tensile/Compression/Tear/Peel/Bending/Shear/Etc

Interface Directly Into the Test After Boot



Sample Information

1. E. Str. Uint:	MPa	DEFAULT
2. TearStrUint:	N/mm	TIMESET
3. Sample Num:	1	CALIBRATE
4. Sample Shape:	Square	VERSION
5. Gauge Length:	10 mm	PREVIOUS
6. Width:	5 mm	NEXT
7. Thickness:	3 mm	TEST

COPYDOWN

Supplementary (2)

1. LoadDecimal:	3	DEFAULT
2. Load Unit:	kgf	TIMESET
3. Elong Unit:	mm	CALIBRATE
4. Language:	English	VERSION
5. LoadProtect:	100 %Range	PREVIOUS
6. HighSpeed:	100 %MaxSpeed	NEXT
7. LowSpeed:	1 %MaxSpeed	TEST
8. ReturnDecCoe.:	10	
9. ReturnDelay:	0.02 min	

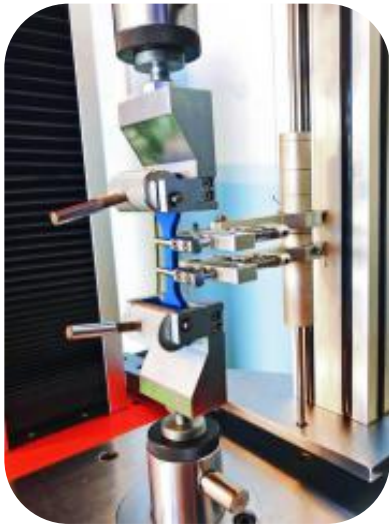
Test Method

1. Test Dir.:	DOWN	DEFAULT
2. TestSpeed:	50 mm/min	TIMESET
3. ReturnSpeed:	500 mm/min	CALIBRATE
4. AutoStopTest:	Break Judge	VERSION
Break S.:	50 %	PREVIOUS
		NEXT
		TEST

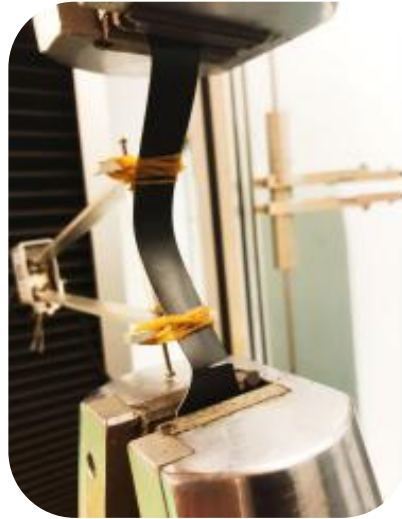
	Load	Stroke	Elong	RunningTime	Speed	SetSpeed		
	-0.005kgf	0.000mm	0.000mm	0.00min	0.0mm/min	50mm/min		
ForceCh.	AD	8387548	Load	-0.005kgf			UP	F. Sensor
			AD	StrandLoad			DOWN	D. Sensor
• 50.000 kgf								
• 0.000 kgf								
• 0.000 kgf	1	8417756	0					Snap
• 0.000 kgf	2	8479595	1				STOP	RubberEx.
								Clear
Measurement (kg)	3	0	0					ZeroFor. MetalsEx.
	4	0	0					Switch
MinForce (kgf)	5	0	0					ZeroStr. Speed
	6	0	0					ZeroElo. System
							pDownSpee	ZeroAll SET
								TEST_INF

PART OF NORMAL TEST TYPE

Testing Systems



Rubber Tensile Testing
With Rubber Extensometer



Metal Tensile Testing
With Metal Extensometer



3 Point Bending Testing
For Pills or other



Tear Strength Testing
For Leather or Fabric



90° Peel Testing
For Adhesive Tape



180° Peel Testing
For Adhesive Tape



Compression Testing
For Spring



Film Puncture Testing
For Film

PART OF GRIPS

HZ-1005A



Plate Grip, Could do tear test



Eccentric Grip



Compression Platen



Winding Grip

ATTENTION TO DETAIL

Confidence in your Result



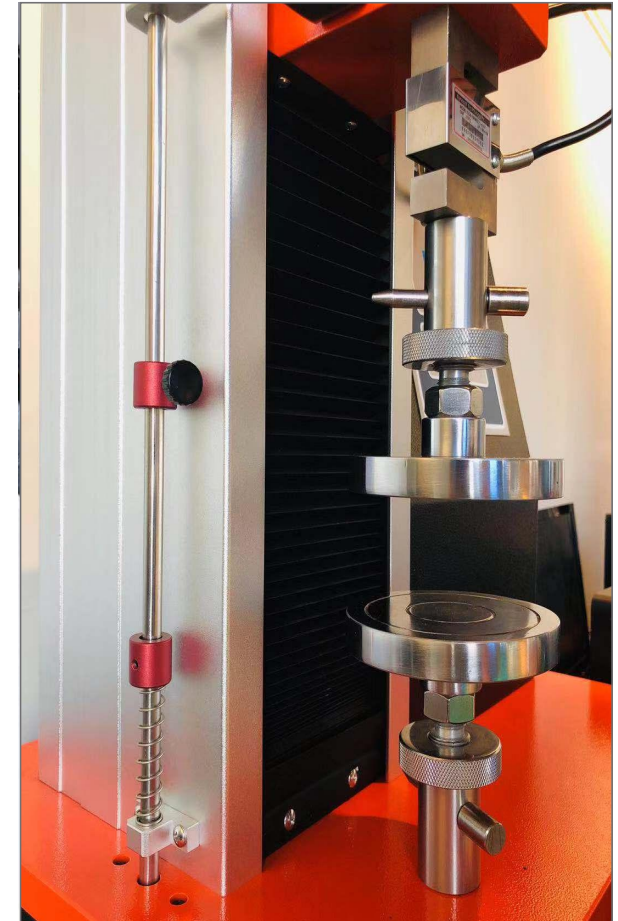
Load Cell Construction

The highest quality mechanical and electrical components ensure the maximum level of performance, producing the most accurate results.



Load-string Alignment

Precision concentricity ring and alignment pins for base adapter and load cell, self-aligning grips, optional specimen centering device.



Machine Integrity

Preloaded ballscrews, precision guidance columns, symmetrical drive system, on-board diagnostics/real-time error checking, ISO 9001 accredited.

| SUPPORT FOR THE LIFE OF YOUR EQUIPMENT

Lyxan® is the largest supplier of materials testing machines in the world. Our reliable testing systems can run 24 hours a day, 7 days a week, 365 days of the year. However, if something does go wrong, or you have a question, we offer a variety of resources to ensure you receive the assistance you need as soon as you need it.



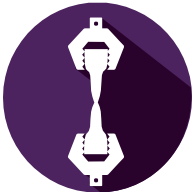
You Can Count on Us

- Represented in more than 80 countries, speaking 40 different languages
- Our on-site and laboratory calibration and verification processes are ISO 9001 accredited throughout China, North America, Brazil, Australia, China, Japan, Korea, Singapore, India, Thailand, and Taiwan



Enhanced Technical Support a “Touch” Away

- Lyxan Connect provides easy remote screen sharing and service request submissions to reduce support times
- Lyxan Connect allows simple test method and file transfers to keep systems up to date
- Expert consultants provide tailored solutions and traditional hotline access
- Additional services like preventative maintenance, calibration, training, emergency repair, and service parts insure confidence that you can keep systems running and get date in a timely fashion



Stay at the Forefront of Materials Science

- Training courses available on-site or in one of our Regional Training Centers
- Utilize our Applications Engineering Lab or Custom Solutions Group for the latest technological advances in materials testing
- Our state-of-the-art Calibration Laboratory offers a comprehensive range of accredited calibration and verification services complying with ASTM, ISO, and Nadcap standards for: force, speed, strain (extensometers), displacement, impact, temperature, torque, creep, strain gauge channel, alignment, and verification of all UTM instruments.



Resources at Your Fingertips • www.lyxxyantech.com

- Our *Testing Solutions* section provides answers to your most current testing challenges
- Lyxxyantech.com is a dedicated support website, providing web-based delivery of information specific to your system
- Access to our complete online Accessories catalog

FACTORY WITH PRODUCE AND SERVICE

售前服务 Pre-Sales Service



方案研发过程 Scheme R&D



生产服务体系流程 Production&Customer Service



clients

Part of our clients



Honors

