Universal Testing Machine Series

Testing Systems





www.lyxyantech.com



Lyx/an Dongguan Lixian Instrument Scientific CO.,LTD

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, 10 years export experience



Diverse product range

for nearly all global markets and industries

20 KN UNIVERSAL TEST MACHINE

MODEL:HZ-1003



Introduction for HZ-1003

This Series machine can be applied to test lots of materials in rubber tensile elongation, compression, tear, big size peel (can 90 degrees and 180 degrees) and other mid-force mechanical test (20KN), such as 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.

Rubber, PVC,PE,Polymer,Plastic,Metal:

- (A) Tensile test: Main test tensile strength
- (B) 3point bending test: Test material bending resistance
- (C) Compression test: Test material compression resistance





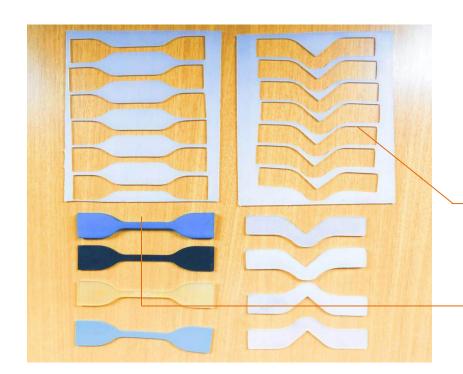


Tensile Test 3 Point Bending Test Compression Test

SPECIFICATIONS

Lyxyan® Universal

Max load	10KN
Maximum Load	500N, 1KN,2KN,5KN,10KN,20KN optional
Extensometer	Comply with Extensometer (if need, please inform supplier before order)
Control Mode	Force from 0.2% to 100% / from 0.4% to 100%
Weight	350KG
Accurate Grade	1 grade / 0.5 grade
Effective Measuring Range	Force from 0.2% to 100% / from 0.4% to 100%
Load Sensor	Basic configuration sensor max load: one
Effective Test Width	420mm (can be increased the tensile space according to customers requirement)
Effective Tensile Stoke	800mm (can be increased the tensile space according to customers requirement)
Testing Speed	From 0.01 to 500mm/min, adjustable
Displacement Accuracy	Tolerance: ±0.5% / tolerance: ±0.2%
Safety	Electronic-limit protection
Overload Protection	Overload 10%, automatic protection
Machine Dimension	80x55x220cm (L*W*H)
Motor	Taiwan "Delta" servo motor and drive
Power Supply	220V, 50HZ or according to the requirement



STANDARD SAMPLE

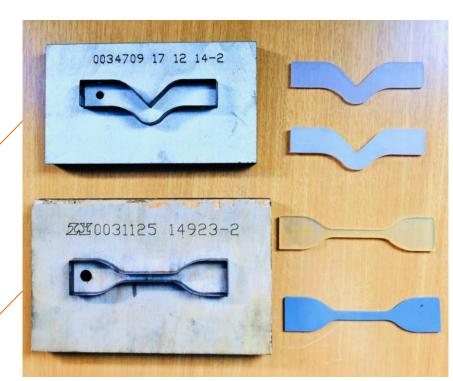
Lyxyan® Universal

ASTM D 638 Right-Angle (90°) sample

ASTM D 412, ISO 37 Dumbbell sample

ASTM D 638 Right-Angle (90°) Cutter

ASTM D 412 ISO 37 Dumbbell Cutter



PART OF NORMAL TEST TYPE

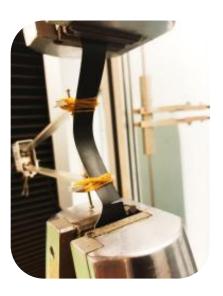
Lyxyan[®] Universal



Rubber Tensile Testing
With Rubber Extensometer



90° Peel Testing For Adhesive Tape



Metal Tensile Testing
With Metal Extensometer



180° Peel Testing For Adhesive Tape



3 Point Bending Testing For Pills or other



Compression Testing For Spring



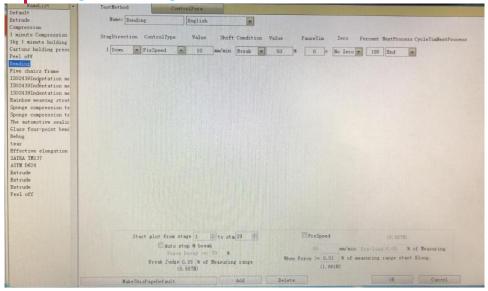
Tear Strength Testing For Shoes or Leather



Film Puncture Testing For Film

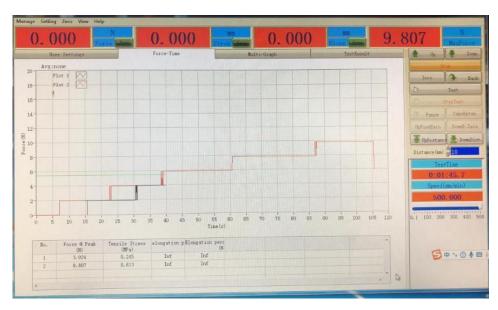
TESTING SHOWING

Testing Method, Testing Result

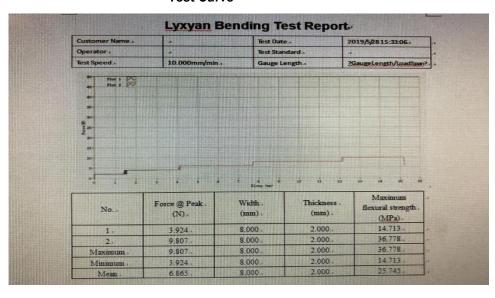


Test Method





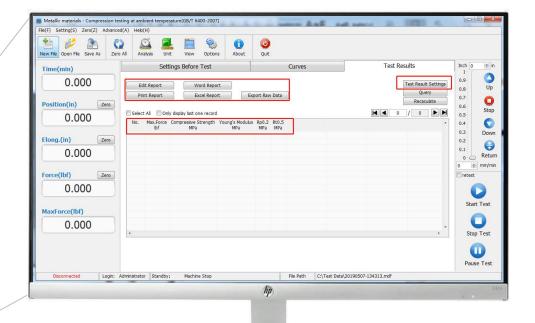
Test Curve



REALTEST® SOFTWARE

Computer Test System





Control System

Support for tensile, compression, shear, bending and other tests;

Support open editing test, editorial standards and editorial procedures,

Support export import testing, standards and procedures;

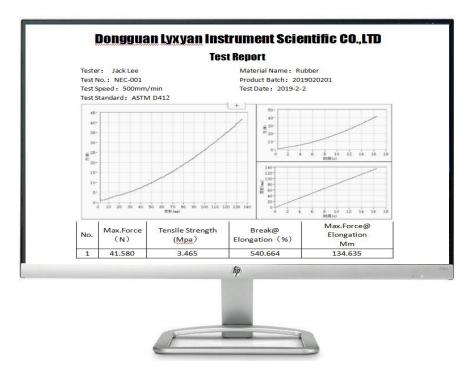
Support custom test parameters;

Adopt an open statement in the form of EXCEL, to support user-defined report format;

Print the query testing results flexibility, support for printing multiple samples, custom sorting print projects

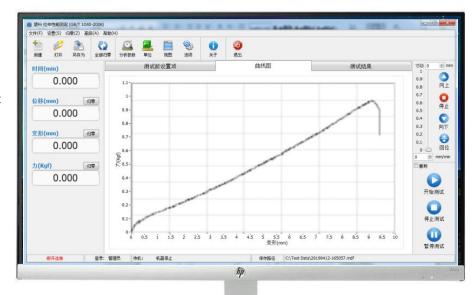
Procedure supports hierarchical management levels (administrator, tester) user management rights;





Software Main Interface

A computer software interface, display test data, setup method, sample size



Test Result

To show test information, including test person, test standard, test curve, test max load etc, can add your company

Test Curve

It will show the test data synchronously, and you can see the curve change during the test

ATTENTION TODETAIL

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 YOUREQUIPMENT

Lyxyan® 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

- Lyxyan Connect provides easy remote screen sharing and service request submissions to reduce supporttimes
- Lyxyan Connect allows simple test method and file transfers to keep systems up todate
- 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 erification of all UTM instruments.



Resources at Your Fingertips • www.lyxxyantech.com

- Our Testing Solutions section provides answers to your most current testing challenges
- · Lyxyantech.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



Training



Communication Service



Testing with Customer



Factory Visiting





clients



SIEMENS 德国西门子







上海电气 SHANGHAI ELECTRIC









USGS











Honors



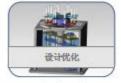
方案研发过程 Scheme R&D



R&D Conference



Design Drawing



Design improving



Customer Confirmation

生产服务体系流程 Production&Customer Service



Design



Laser Cutting

































Weld



CNC 1



Bending



CNC 2







Wiring Assembly

Debugging

Package&Delivery