

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 dark metal bridge structure. The bridge is suspended by thick cables. In the background, a dense city skyline is visible under a cloudy sky with a bright sun or light source creating a lens flare effect. A thick orange rope is stretched across the bridge, with the man holding onto it on the left side and a knot on the right side.

Dongguan Lixian Instrument 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 Yongsen, 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 Lixian.

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.



60+ Employees
A highly-educated, experienced, and diverse workforce



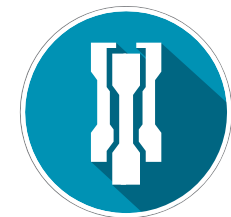
Representing **80 Countries**, speaking **40+ languages**



10,000+ systems installed worldwide



19+ years of engineering and manufacturing testing systems



Diverse product range for nearly all global markets and industries

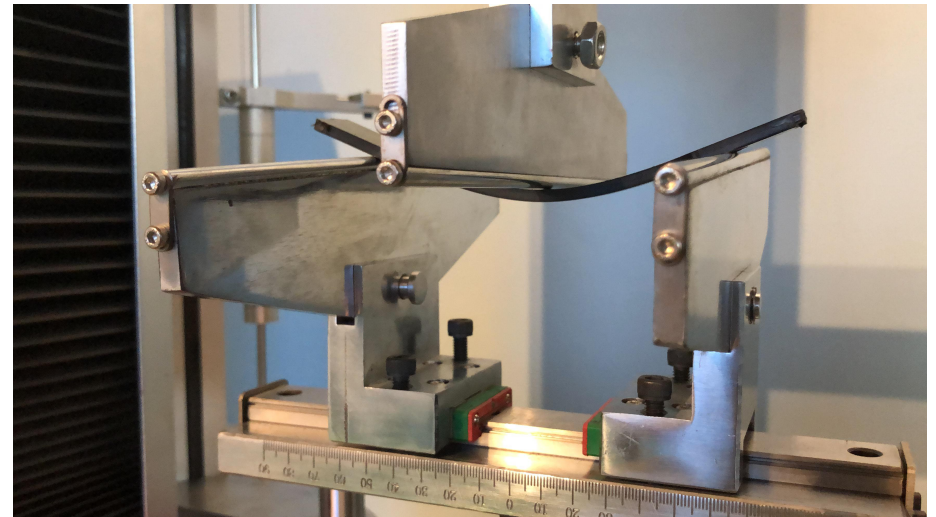
BENDING TEST MACHINE

MODEL:HZ-1003A



Introduction for HZ-1003A

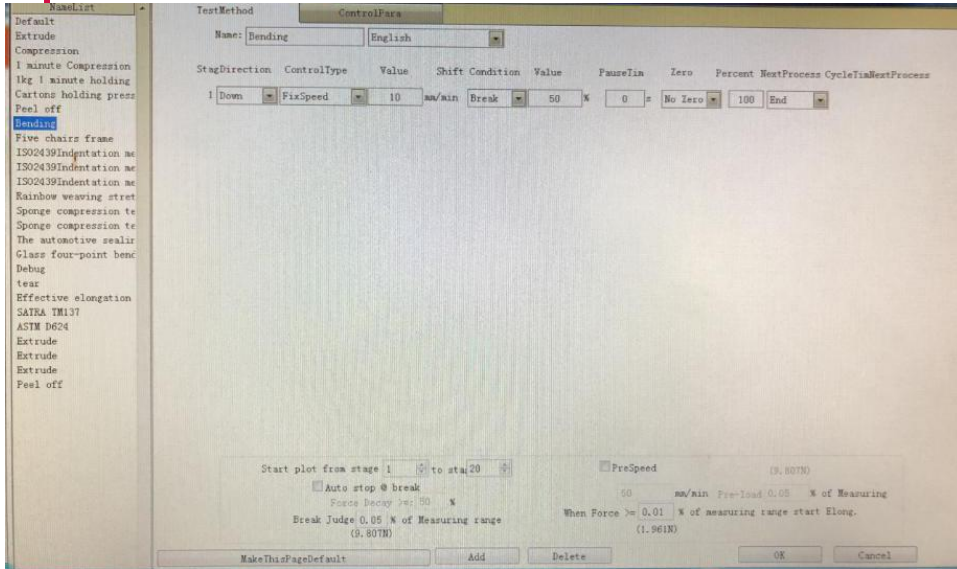
HZ-1003A Computer Servo Type Bending Testing Machine is a new material testing machine that combined with the electronic technology and mechanical transmission, it has accurate load speed, range of force measurement, Has high accuracy and sensitivity for the load, displacement measurement and control, it also can be tested the constant-velocity loading, constant- velocity displacement.



SS/PE/PVC Pipe Bending Testing Grip

TESTING SHOWING

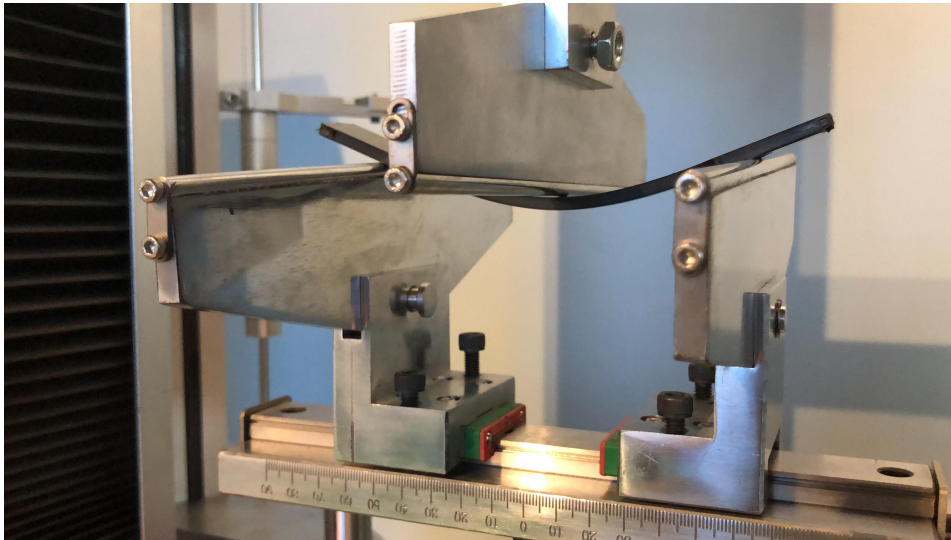
Testing Method, Testing Result



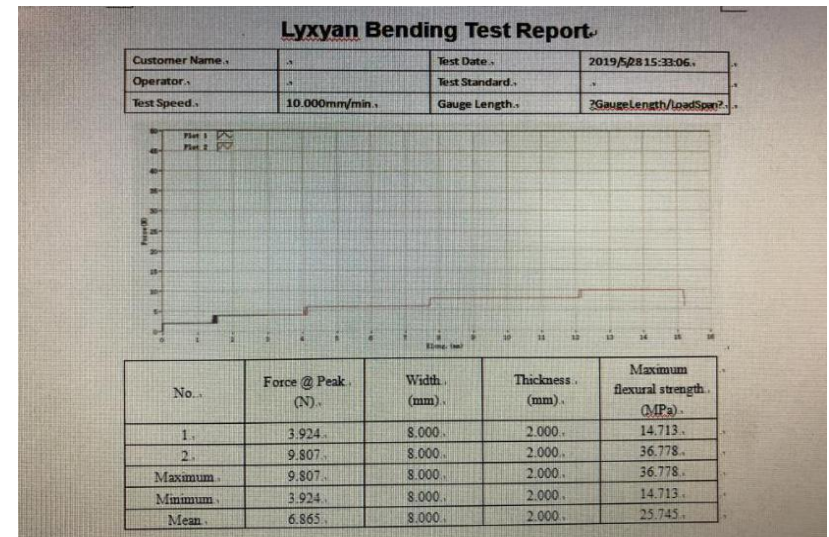
Test Method



Test Curve



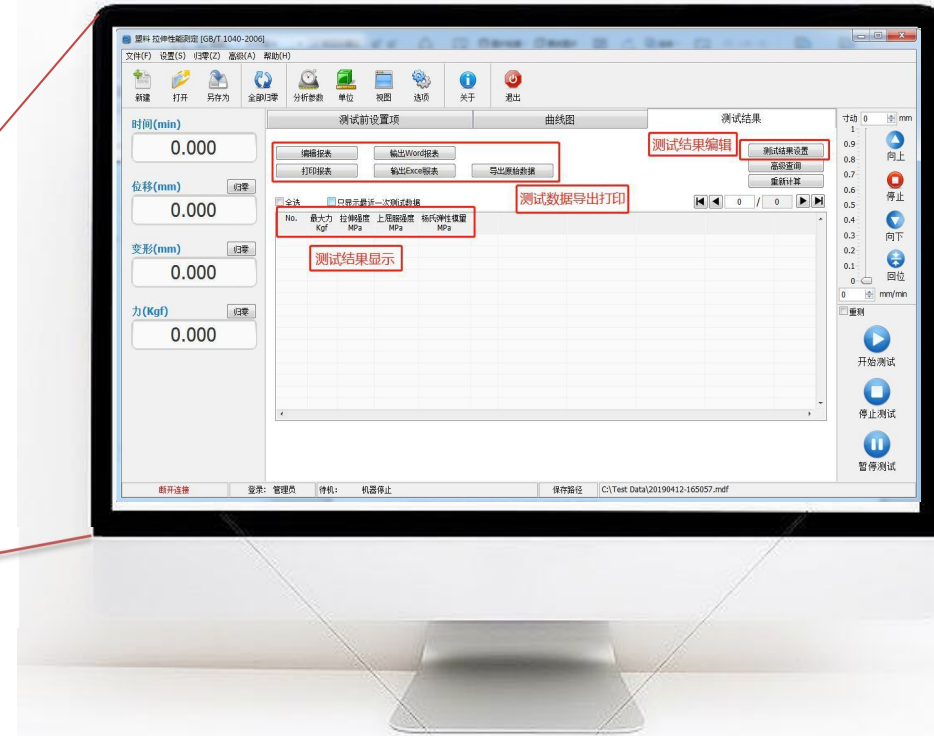
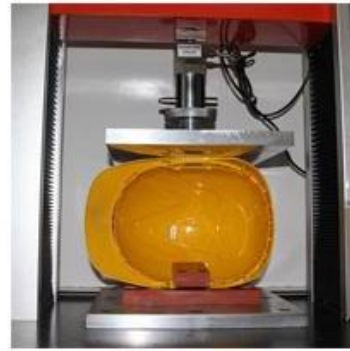
Test Procedure



Test Result

REALTEST® SOFTWARE

Computer Test System

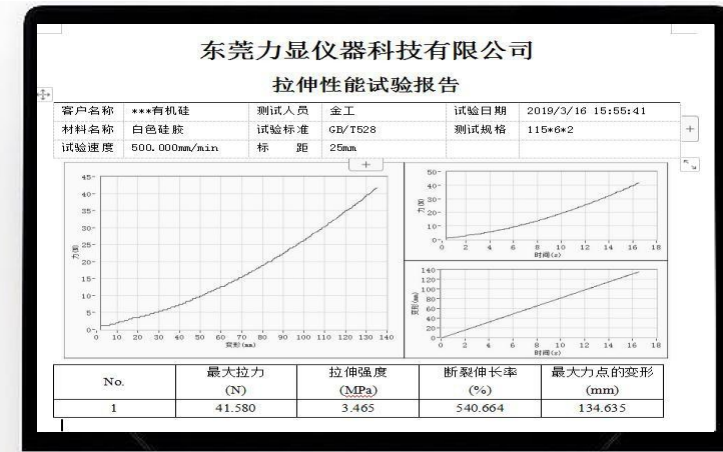


RealTest is a powerful universal software, including stretching, compression, tear, shear, bending and other tests, data collection precision, test results of a variety of support test results formula edit, show any results you want



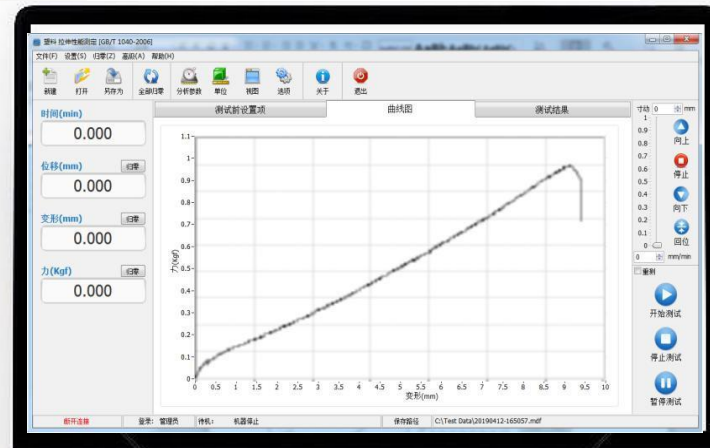
Software main interface

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, easy to edit.



Test Curve

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

SPECIFICATIONS

Lyxian® Universal

Model	HZ-1003A
Maximum load	500KG,1000KG,2000KG(optional)
Accurate grade	1 grade /0.5 grade
Effective measuring range	0.2%~100% (1 grade) /0.4%~100% (0.5 grade)
Measuring accuracy	Display the value $\pm 1\%$ /Display the value $\pm 0.5\%$
Tester resolution	Max load 1/200000, constant the resolution
Load sensor	Basic configuration: sensor (max load) : one Extended configuration: can add more sensors
Effective testing width	400mm(can be widened according to customer's requirement)
Effective tensile stroke	800mm;1200mm;1400mm (can be increased the height according to customer's requirement)
Range of testing speed	0.001~500mm/min
Accuracy of displacement measurement	Tolerance: $\pm 0.5\%$ / tolerance: $\pm 0.2\%$
Deformation of measured system (according to the requirements)	Min span :10mm、 Max range of deformation: 800mm Extended deformation: Min span: 25mm、 50mm、 100mm, Range of deformation : 5mm、 10mm、 25mm
Accuracy of measured deformation	Tolerance : $\pm 0.5\%$ (according to requirement of customer to choose the larger or small deformation)
safety	Electronic-limit protection
Back to function of testing platform	Manual or automatic operation、 After the test, the moving iron return to initial position with the highest speed by manual or automatic operation
Overload protection	Overload 10%, automatic protection
fixture	1 set of tensile fixture, 1 set customization compression grip
Machine size	107*56*210cm(length*width*height)(Standard one)
Motor	Delta AC servo motor and drive from Taiwan
power	220V/50HZ
weight	Approximately 300 KG



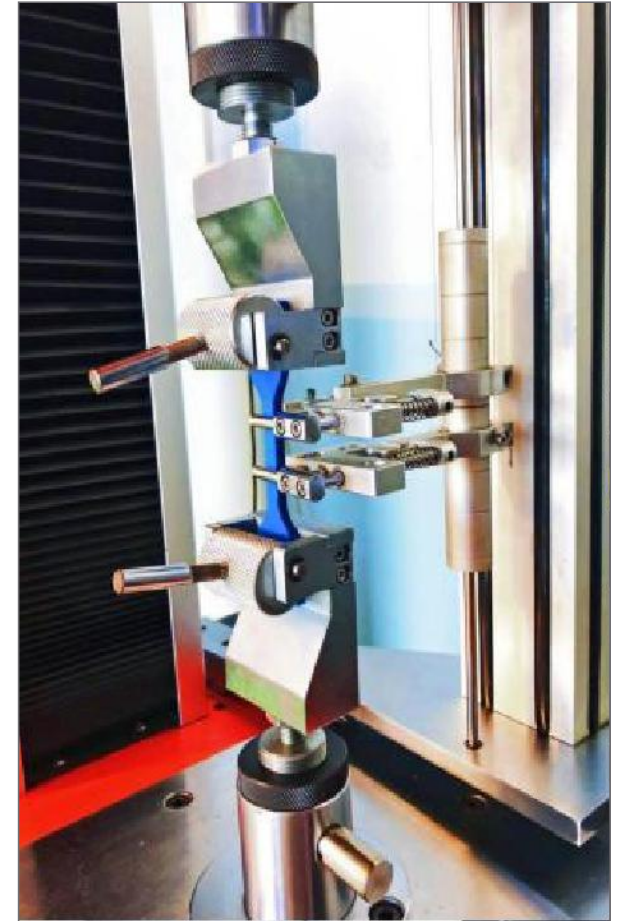
Load Cell Construction

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.



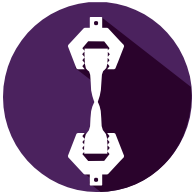
You Can Count on Us

- 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



Honors

