



Professional Technology

- Better than 0.5% of full scale effectively ensures accurate test results
- Multiple testing modes are available, including tensile strength, deformation, peeling and tearing, etc.
- Stress at defined elongation, elastic modulus and stress and strain etc. could be analyzed
- 1200mm extra-long stroke satisfies the test needs of various materials with extreme deformation rate
- 6 working stations and pneumatic specimen clamping facilitate to test multiple specimens simultaneously
- Different test range of load cells and 6 distinct test speeds to meet different test requirements
- The instrument is controlled by computer, with PVC operation panel and membrane switch which is convenient for instrument operation
- Intelligent designs of over-travel protection, overload protect, automatic position reset and intelligent error alerts for safe test operation
- Professional operating software supports statistical analysis of group specimens, superposition analysis of test curves, maximum, minimum, average and standard deviation of test results
- Supports zoom-in and zoom-out of test curve and vernier indication of test results
- Supports Lystem™ Lab Data Sharing System for uniform and systematic management of test results and test reports

Applications

This instrument is equipped with more than 100 grips for tests of more than 1000 materials. And customization is also available for special material tests. Examples of instrument applications:

Basic Applications	Extended Applications (Additional Accessories Required)			
Tensile Test	Opening Resistance Test of Combined Covers	Tear Test of ZD -Type Caps	Opening Resistance Test of Oral Liquid Caps	90 Degree Pullout Test of Infusion Bag Caps
Test of Tensile Strength and Elongation Rate	Tear Test of Adhesive Binding Books	Tear Test of Adhesives	23 Degree Pullout Test of Bottle Caps	Pullout Test of Infusion Bags
Test of Tensile Strength at Break	90 Degree Peel Test of Adhesives	Adhesive Strength Test (hard)	90 Degree Peel Test of Water-soluble Plasters	Opening Resistance Test of Jelly Cups and Yogurt Cups
Tear Resistance Test	Adhesive Strength Test (soft)	Pullout Test of Tooth Brush Hair	Peel Test of Flexible Tube Caps	Removal Force of Pipes and Pipe Joints

Heatseal Strength Test	Pullout Test of Cosmetic Brush Hair	Pullout Test of Rubber Closures	Tensile Strength of Ropes at Break	Separating Force of Protection Films
90 Degree Peel Test	Peel Test of Cup Films	Tear Test of Heatseal Films	45 Degree Peel Test of Bottle Membranes	Tensile Strength of Sealing Bags
180 Degree Peel Test	20 Degree Peel Test	135 Degree Peel Test of Plugs	Unwrapping Force of Adhesive Tapes	Tear Test Using Trouser Method
	Japanese Sample Grips	Peeling Grips of Floating Rollers	Eccentric Grips	Wide Sample Grips
		British Sample Grips		

Test Principle

The pre-conditioned specimen is mounted between two grips, which move in relative direction during the test. The changes of force and displacement are separately recorded by the load cell fixed on the driven grip and embedded displacement transducer. The tensile strength, tear strength and elongation rate can be obtained by further calculation.

This instrument conforms to multiple standards as following:

ISO 37, ASTM E4, ASTM D882, ASTM D1938, ASTM D3330, ASTM F88, ASTM F904, JIS P8113, QB/T 2358, QB/T 1130, GB 8808, GB/T 1040.1-2006, GB/T 1040.2-2006, GB/T 1040.3-2006, GB/T 1040.4-2006, GB/T 1040.5-2008, GB/T 4850-2002, GB/T 12914-2008, GB/T 17200, GB/T 16578.1-2008, GB/T 7122, GB/T 2790, GB/T 2791, GB/T 2792, GB/T 17590

Technical Specifications

Specifications	XLW (G6)
Load Cell Capacity	500 N, 50 N (one of them is available)
Accuracy	0.5% FS
Test Speed	100 150 200 250 300 500 mm/min
Number of Specimens	1~ 6
Specimen Width	30 mm (Standard Grip)
Clamping Way	Pneumatic Specimen Clamp
Stroke	1200 mm
Gas Supply Pressure	0.5 MPa~ 0.7 MPa (outside of supply scope)
Port Size	Φ6 mm PU Tubing
Instrument Dimension	1020 mm (L) x 510 mm (W) x 2100 mm (H)
Power Supply	AC 220V 50 Hz
Net Weight	210 kg

Configurations

Standard Configurations	Mainframe, Universal Grips, Professional Software, Communication Cable and Calibration Cable
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Optional Parts

Standard Pressure Roller, Test Plate, Sample Cutter and Customized Grips

Note

1. The gas supply port of the instrument is $\Phi 6$ mm PU Tubing;
 2. Customers will need to prepare for gas supply.
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Please Note: Labthink is always dedicated to the innovation and improvement of product performance and function. Therefore, technical specifications are subject to change without further notice. Please visit our website at www.labthink.com for the latest updates. Labthink reserves the rights of final interpretation and revision.