

Professional Technology

- 1% of full scale effectively ensures accurate test results
- 7 independent test modes are available, including tensile strength, peeling force, tearing force, heat seal strength and other force properties of flexible packages
- Specimen is mounted tightly with pneumatic specimen clamp to ensure the accuracy of test results
- Different ranges of load cells and 7 distinct test speeds to meet different test requirements
- The instrument is controlled by micro-computer with menu interface, PVC operation panel and large LCD display
- Intelligent designs of over-travel protection, overload protection, automatic position reset and power failure memory for safe test operation
- Equipped with RS232 port and micro printer port which is convenient for the data transmission and PC connection
- Professional operating software supports statistical analysis of group specimens, superposition analysis of test curves and historical data comparison functions as well as multi-functions of parameter setting, printing, inquiry, clear and calibration, etc.
- Supports Lystem™ Lab Data Sharing System for uniform and systematic data management



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)			
Shearing Test	Puncture Test of Hypodermic Needles in Artificial Skin	Puncture Test of Films	Puncture Test of Infusion Bags	Puncture/Pullout Test of Flexible Rubber Closures
Test of Tensile Strength and Elongation Rate	Opening Resistance Test of Combined Covers	Tear Test of ZD -Type Caps	Opening Force Test of Oral Liquid Caps	Puncture/Pullout Test of Oral Liquid Caps
Test of Tensile Strength at Break	90 Degree Pullout Test of Infusion Bag Caps	Pullout Test of Infusion Bag Caps	23 Degree Pullout Test of Bottle Caps	Puncture/Pullout Test of Bottle Caps or Rubber Closures
Tear Resistance Test	90 Degree Peel Test of Adhesive Tapes	Tear Resistance Test of Adhesive Binding Books	90 Degree Peel Test of Water-soluble Plasters	Tear Resistance Test of Adhesives
Heatseal Strength Test	Adhesive Strength Test (soft)	Adhesive Strength Test (hard)	Peel Test of Flexible Tube Caps	Removal Force of Pipes and Pipe Joints
90 Degree Peel	Pullout Test of	Pullout Test of	Tensile Strength of	Opening Force Test of Jelly

Test	Cosmetic Brush Hair	Tooth Brush Hair	Ropes at Break	Cups and Yogurt Cups
180 Degree Peel Test	Peel Test of Cup Films	Pullout Test of Rubber Stoppers	45 Degree Peel Test of Bottle Membranes	Tensile Strength of Sealing Bags
	Peel Test of Magnetic Cores	90 Degree Peel Test of Magnetic Cards	Tear Resistance of Heat Sealing Films	Separating Force of Protection Films
	Peel Test of Release Paper	Tear Test Using Trouser Method	Unwrapping Force of Adhesive Tapes	Compressive Resistance of Plastic Bottles
	20 Degree Peel Test	135 Degree Peel Test of Plugs	Peeling Grips of Floating Rollers	Tensile Strength of Contact Lenses at Break
	Eccentric Grips	Japanese 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 various national and international standards as follows:

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 (M)
Load Cell Capacity	500 N (standard) 30 N, 50 N, 100 N, 200 N (optional) 750 N, 1000 N (Customization Available)
Accuracy	1% FS
Test Speed	50 100 150 200 250 300 500 mm/min
Number of Specimens	1
Specimen Width	30 mm (Standard Grip) 50 mm (Optional Grip)
Clamping Way	Pneumatic Specimen Clamp
Stroke	500 mm
Pressure of Gas Supply	0.5 MPa~ 0.7 MPa (outside of supply scope)
Port Size	Φ4 mm PU Tubing
Instrument Dimension	450 mm (L) x 580 mm (W) x 1100 mm (H)
Power Supply	220VAC 50Hz / 120VAC 60Hz
Net Weight	60 kg

Configurations

Standard Configurations	Instrument, Pneumatic Clamping System, Professional Software and Communication Cable
Optional Parts	Micro Printer, Printing Cable, Standard Pressure Roller, Test Plate, Sample Cutter and Customized Grips
Note	1.The gas supply port of this instrument is $\Phi 4$ mm PU Tubing; 2. Customers will need to prepare for gas supply.

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.