

Professional Technology

- 1% of full scale effectively ensures the accuracy of test results
- 2 independent test modes are available, including tensile strength and peeling force to meet the distinct requirements of users
- 3 kinds of testing data provided for each test i.e. Maximum Value, Minimum Value and Average Value. Group data analysis is also available
- Elongation rate can be easily obtained by the precise ruler
- Different test range 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 error alert for safe test operation
- Equipped with RS232 port and micro printer port which is convenient to the data transmission and PC connection
- 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)			
Test of Tensile Strength and Elongation Rate	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 at Break	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
Heatseal Strength Test	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
Shearing Test	Adhesive Strength Test (soft)	Adhesive Strength Test (hard)	Peel Test of Flexible Tube Caps	Removal Force of Pipes and Pipe Joints
180 Degree Peel Test	Pullout Test of Cosmetic Brush Hair	Pullout Test of Tooth Brush Hair	Tensile Strength of Ropes at Break	Opening Force Test of Jelly Cups and Yogurt Cups
90 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	90 Degree Peel Test	Tear Resistance of	Separating Force of

	Cores	of Magnetic Cards	Heat Sealing Films	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	Eccentric Grips
	Wide Sample 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 the ruler shown on the stand column. The tensile strength, tear strength and elongation rate can be obtained by further calculation.

This instrument conforms to various standards as follows:

GB/T 4850-2002, GB 8808, GB/T 1040.3-2006, GB/T 17200, GB/T 2790, GB/T 2791, GB/T 2792, QB/T 2358

Technical Specifications

Specifications	XLW (B)
Load Cell Capacity	200 N (standard) 30 N, 50 N, 100 N, 500 N (optional) 750 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	Manual Specimen Clamp
Stroke	600 mm
Instrument Dimension	450 mm (L) x 580 mm (W) x 1100 mm (H)
Power Supply	220VAC 50Hz / 120VAC 60Hz
Net Weight	61 kg

Configurations

Standard Configurations	Instrument, Professional Software, Universal Grips and Communication Cable
Optional Parts	Load Cell, Micro printer, Communication Cable, Standard Pressure Roller, Test Plate, Sample Cutter, Low Speed Unwrapping Device and Customized Grips

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.