XLW (EC) Auto Tensile Tester can be used to measure tensile, peeling, deformation, tearing, heat sealing, adhesive, puncture force, opening force and low speed unwrapping force as well as other performance of plastic films, composite materials, soft package materials, plastic flexible tube, adhesives, adhesive tape, label stickers, medical plasters, release paper, protection films, combined caps, aluminum foils, diaphragms, back sheets, non-woven fabrics, rubber and paper.

Professional Technology

- Better than 0.5% of full scale effectively ensures accurate test results
- Supports bidirectional testing modes including stretching and compression and test speed could be adjusted freely
- 8 independent test modes are available, including tensile strength, peeling force, tearing force, heat sealing and other performance test
- Different test range of load cells and 7 distinct test speeds to meet different test requirements
- Pneumatic clamping system provides the even clamping force for specimen to ensure the accuracy of test results
- Intelligent designs of over-travel protection, overload protect and automatic position reset for safe test operation
- Professional operating software supports statistical analysis of group specimens, and export test results in different units
- Supports Lystem™ Lab Data Sharing System for uniform and systematic management of test results and test reports

High-end

XLW (EC) utilizes Labthink's latest embedded computer system, with better performance than traditional single chip one.

- Embedded computer control system integrates control software with the instruments together
- Professional control system provides safer and more reliable data management as well as test operation
- The instrument can be easily operated by a mouse, a keyboard, and a monitor; without requiring a PC.
- The instrument is equipped with four USB ports and dual Internet ports for convenient data transmission.

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 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
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
Tensile Strength Test at Defined Elongation	Peel Test of Magnetic Cores	90 Degree Peel Test of Magnetic Cards	Tear Resistance of Heat Sealing Films	Separating Force of Protect 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	Tensile Strength of Contact Lenses at Break
	Compression Resistance of Jelly Cups	Compression Resistance of Package	Compression Resistance of Sponge	

Test Standards

This instrument conforms to multiple standards including:
ISO 37, ASTM E4, ASTM D882, ASTM D1938, ASTM D3330, ASTM F88, ASTM F904, JIS P8113, 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, QB/T 2358, QB/T 1130

Technical Specifications

Specifications	XLW (EC)
Load Cell Capacity	500 N (standard) 50 N, 100 N, 250 N (optional) 750 N, 1000N (Customization Available)
Accuracy	Better than 0.5% FS
Test Speed	Forward 50 100 150 200 250 300 500 mm/min Backward 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
Gas Supply	Air (outside of supply scope)
Gas Supply Pressure	0.5 MPa~ 0.7 MPa
Stroke	950 mm
Instrument Dimension	450 mm (L) x 450 mm (W) x 1410 mm (H)
Power Supply	220VAC 50Hz / 120VAC 60Hz
Net Weight	70 kg

Configurations

Standard Configurations	Instrument, Professional Software, LCD Monitor, Keyboard, Mouse, Universal Grips and Pneumatic Clamping System
Optional Parts	Standard Pressure Roller, Test Plate, Sample Cutter, Customized Grips and Printer (compatible with PCL3 language)
Note	1. The gas supply port of this instrument is Φ4mm 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.