

XLW-L Intelligent Electronic Tensile Tester

XLW-L is an intelligent electronic tensile tester specializing in testing the mechanical properties of various flexible packaging materials. It is mainly used to test the heat seal strength, tensile strength, peel force, elongation of pharmaceutical packaging materials, aluminum foil, PVC hard sheet, composite film, syringe and other products.



Technical Features

- 7 Inch Touch screen, real time curve and date display.
- Various of test items to meet different applications
- High precision and fast response.
- The drive system is stable with high running accuracy.
- Over travel protection, overload protection, automatic return, and power-off memory ensures the safety.
- Start-up automatic zero calibration, support manual sensor zero calibration.
- Real-time curves display shows the changing of force value in the process of test.
- Products conform to three-level authority management.
- Test data history can be queried, data can not be changed, auditable traceability
- Statistical analysis of single and group test results
- Micro printer, to print the test result after the test.
- Standard USB communication interface
- Specialized communication software can display real-time test data, analyze and process data, and save data.
- Optional pneumatic clamping, reduce operation time, more smooth operation experience
- Extensible network transmission interface, test data uploaded directly to cloud server, global remote query.

Application

XLW-L Intelligent Electronic Tensile Testing Machine has abundant applications, with more than 100 different sample fixtures for users to choose, and can meet the test requirements of more than 1000 kinds of materials. It also provides customized services to meet the test needs of different users according to the different materials of users.

Basic application	Extended application (Need special accessories or restructuring)			
Tensile Property	Simulated skin puncture resistance	Film puncture force	Puncture force of bag cover for infusion	Puncture/Draw Force of Soft Rubber Bottle Plug
Tensile Strength	Opening force of	ZD style Cap	Tearing force of	Puncture/pull-out force

and Deformation Rate	combined cover	tearing force	oral liquid lid	of oral liquid cover
Breaking force	Drawing Force of 90 Degree Inclined Infusion Bag Cover	Drawing force of the cover of infusion bag with bag	Drawing Force of 23 Degree Tilt Bottle Cap	Puncture/Drawing Force with Bottle Cap and Rubber Plug
Tear resistance	90 Degree Peeling Force of Adhesive Tape	Binding Page Tearing Force	90 Degree Waterborne Plaster Peeling Force	Stickies tearing force
Heat Sealing Strength Performance	Adhesion Strength Test (Soft)	Adhesion Strength Test (Hard)	Peeling force of hose cover	Catheter and catheter joint detachment force
90 degree peeling	Cosmetic brush pull-out force	Brush pull-out force	Rope breaking force	Opening power of jelly cup and yogurt cup
180 degree peeling	Peeling force of cup membrane of milk cup	Plug pull-out force	45 Degree Peeling Force of Bottle Film	Self-sealing bag opening pull
	Core peeling force of magnetic card	90 Degree Peeling Force of Magnetic Card	Tearing force of heat sealing film	Protective Membrane Separation Force
	Separation force of release paper	Tearing force of trousers	Unwinding force of tape	Pressure Resistance of Plastic Bottles
	20 Degree Slope Peeling Force	135 degree bolt peeling force	Floating Roll Peeling Fixture	Eccentric fixture
	Wide sample fixture	Japanese fixture	British style fixture	

Test Principle

The sample is clamped between the two clamps of the fixture. The relative motion of the two clamps is made. The force and displacement changes during the test are collected through the force sensor on the moving clamp and the displacement sensor built in the machine. The tensile, tearing and deformation rate of the sample are calculated.

Test Standards

GB 13022、GB 8808、GB 1040、GB 4850、GB 7753、GB 7754、GB 453、GB/T 17200、GB/T 16578、GB/T 7122、GB/T 2790、GB/T 2791、GB/T 2792、ASTM E4、ASTM D828、ASTM D882、ASTM D1938、ASTM D3330、ASTM F88、ASTM F904、ISO 37、JIS P8113、QB/T 2358、QB/T 1130、YBB00152002-2015、YBB00212005-2015、YBB00232005-2015、YBB00222005-2015、YBB00182004-2015、YBB00202005-2015、YBB00242002-2015、YBB00212004-2015、YBB00132005-2015、YBB00142005-2015、YBB00152005-2015

Technical Data Sheet

Item	Model	XLW-L Intelligent Electronic Tensile Tester
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Force Range	500N (Standard) 50N、250N (Optional)
Accuracy	0.5 % FS
Resolution	0.0001N
Displacement accuracy	0.5 class
Displacement resolution	0.1mm
Test speed	10 - 500 mm/min
Travel	600mm
Clamp	Manual
Grip Width	30mm (Standard) 50mm (Optional)
Power	220 V/50Hz
Size	450mm*450mm*1000mm
Net Weight	72 kg

Product configuration

Standard configuration	Instrument, Micro Printer, Grips
Optional configuration	Professional Software and Communication Cable、 Customized fixtures (Breaking force fixture, opening force fixture for modular cover, stretching fixture, pinpoint puncture force test fixture, sliding test fixture, body tightness test fixture, thermal strength test fixture, connecting force fixture, pulling force fixture, full opening force fixture)

Please Note: Saicheng 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 global.saicheng.cn for the latest updates. Saicheng reserves the rights of final interpretation and revision.