TST-01B Auto Tensile Tester

Brief Introduction

TST-01B Auto Tensile Tester is applicable to determination of tensile properties, peel strength(90°, 180°), deformation, tearing strength, heat seal strength, puncture resistance, opening force, low-speed unwrapping force, pullout force and other properties of plastic films, composite materials, adhesives, adhesive tapes, medical patches, protective films, pressure sensitive paper, combination caps, metal foils and back panel materials, etc.



Technical Features

- ◆ The crossbeam is composed of three guide bars and graphite self-lubricating sleeve, which can ensure the linear movement of the crossbeam.
- ◆ 0.5% of full scale effectively ensures accuracy and repeatability of test results
- ◆ Equipped with advanced displacement control system, displacement accuracy can reach 0.1mm
- With advanced servo drive system, which can achieve infinitely variable speed and wider test speed range to meet the user's needs for different test conditions.
- ◆ The 7-inch color touch screen with intelligent data processing functions provides users with a comfortable and smooth operating experience

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- ◆ Concise and intuitive operation interface, convenient user-defined test functions, and complete data analysis and reporting functions
- ◆ Built-in test file standard library, in line with various international test methods
- ◆ Wide range of load cells for a variety of force testing requirements
- ◆ Equipped with a variety of grips for choose, which can meet the test requirements of more than 10,000 materials
- ◆ Intelligent designs of over-travel protection, overload protection, automatic position reset and power failure memory for safe test operation
- ◆ Equipped with a standard serial communication port, which can be connected to computer software to facilitate data processing and transmission

Test Principle

The specimen clamped between two chuck and do relative motion. Conduct piercing or opening test through special clamp head. Collect the strength and displacement changes in the progress of test by force test and control system to calculate the corresponding force value data.

Applications

Basic Application*	Extended Application**			
Tensile Strength & Deformation Rate	Puncture Resistance Test of Artificial Skin	Puncture Test of Films	Puncture Resistance of Infusion Bag Closures	Puncture/Pullout Test of Flexible Rubber Closures
Tensile Stress at Break	Opening Resistance Test of Combined Covers	Tear Test of ZD - Type Caps	Tearing Resistance Test of Oral Liquid Caps	Puncture/Pullout Test of Oral Liquid Caps
Heat Seal Strength	90 Degree Pullout Force Test of Infusion Bag Closure	Pullout Test of Infusion Bag Closure	23 Degree Pullout Test of Bottle Caps	Puncture/Pullout Test of Flexible Rubber Closures
Tearing Strength	90 Degree Peel Test of Adhesive Tapes	Tear Resistance Test of Adhesive Binding Books	90 Degree Peel Test of Water-soluble Plasters	Tearing Resistance Test of Adhesives

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Shearing Strength	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 Closure	45 Degree Peel Test of Bottle Membranes	Tensile Strength of Sealing Bags
	Peel Test of Magnetic Cards	90 Degree Peel Test of Magnetic Cards	Tearing Resistance of Heat-sealable Films	Separating Force Test of Protective Films
Separating Force Usi	Tear Test Using Trouser Method	Unwrapping Force of Adhesive Tapes	Compression Resistance Test 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	

Note: *Additional accessories or customized sample grips may need to be purchased separately to complete the tests that cannot be completed with standard sample grips.

Technical Specifications

00N/200N/500N
0.5% FS

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^{**} Customized grips are needed for extended applications

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Displacement Accuracy	0.1mm	
Drive System	servo drive system	
Speed of Crossbeam	0.05~500 mm/min	
Accuracy of Speed	±1%	
Maximum Stroke	600mm	
Number of Specimens	1	
Specimen Width	30mm (standard), 50mm (optional)	
Clamping Way	Manual	
Power Supply	AC 220V 50Hz/120V 60Hz	
Instrument Dimension	480mm(L)×480mm(W)×1100mm(H)	
Net Weight	80kg	

Standards

ISO 37, ASTM E4, ASTM D882, ASTM D1938, ASTM D3330, ASTM F88, ASTM F904, 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, JIS P8113, QB/T 2358, QB/T 1130

Configuration

Standard Configuration	Instrument, Universal Grips
Optional Parts	Test Plate (50×125,40×180. Customization available for other specs), Sample Cutter (10#、15#、20#、25#、25.4#. Customization available for other specs), Non-standard Sample Grips (customization available)

Technical specifications are subject to change without further notice. Please visit our website at www.horizontester.com for latest information.

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