



TST-01 Tensile Tester

Application

The TST-01 Tensile Tester serves the purpose of assessing various attributes of materials like plastic films (requiring distinct clamps or fixtures), composite materials, soft packaging materials, plastic flexible tubes, adhesives, adhesive tapes, label stickers, medical plasters, release paper, protective films, combined caps, aluminum foil, diaphragms, backing sheets, non-woven fabrics, rubber, and paper. Its applications encompass measuring tensile, peeling, deformation, tearing, heat sealing, adhesion, puncture force, opening force, and other performance characteristics across these materials.

Technical Features

This unit is under PLC control (with industrial-level stability) and operated through an HMI touch screen. The use of a precision ball lead screw mechanism ensures consistent and accurate speed and displacement control. It features a specially designed program catering to tests including break, tension, elongation, seal strength, 90° peeling, and 180° peeling.

The key features include:

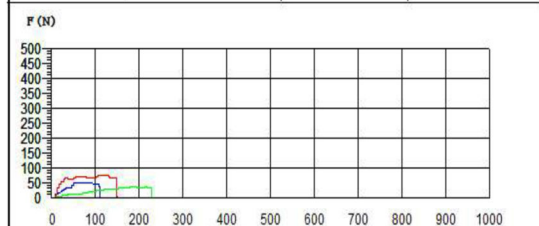
1. A 7-inch HMI touch screen for user-friendly operation.
2. PLC control for efficient functioning.
3. Precision ball lead screw for reliable results.
4. Adjustable test speed.
5. Compatibility with multiple fixtures.
6. Equipped with a limiting device and automatic returning function.
7. Availability of various test items.
8. Optional inclusion of a microprinter.
9. RS 232 port for data communication and professional software (optional).



Main Parameters

Test Range: 0-500N (or 50N, 100N, 200N, etc)
 Stroke: 800mm (customizable for other strokes)
 Test Speed: 1~500mm/min
 Displacement Accuracy: 0.01mm
 Accuracy: 0.5% Full Scale
 Sample Width: 27mm (optional width available)
 Control: PLC and HMI Screen
 Data Output: screen, Microprinter (optional), RS232 (optional)

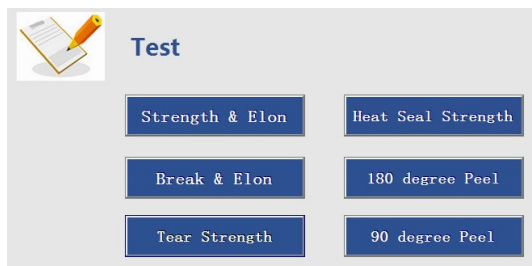
Length=	100 mm	Width=	15.0 mm
Thickness=	0.012 mm	Speed=	500 mm/min
Faver. =	55.109 N	Saver. =	306.15MPa
Eaver. =	136.801 %	Number=	5
Date:	2020/3/24	Time:	10:40:35



Report from Optional Software

Major Standards

ISO 37, ASTM D882, ASTM E4, ASTM D3330, ASTM F904, ASTM F88, ASTM D1938, JIS P8113



Main Menu

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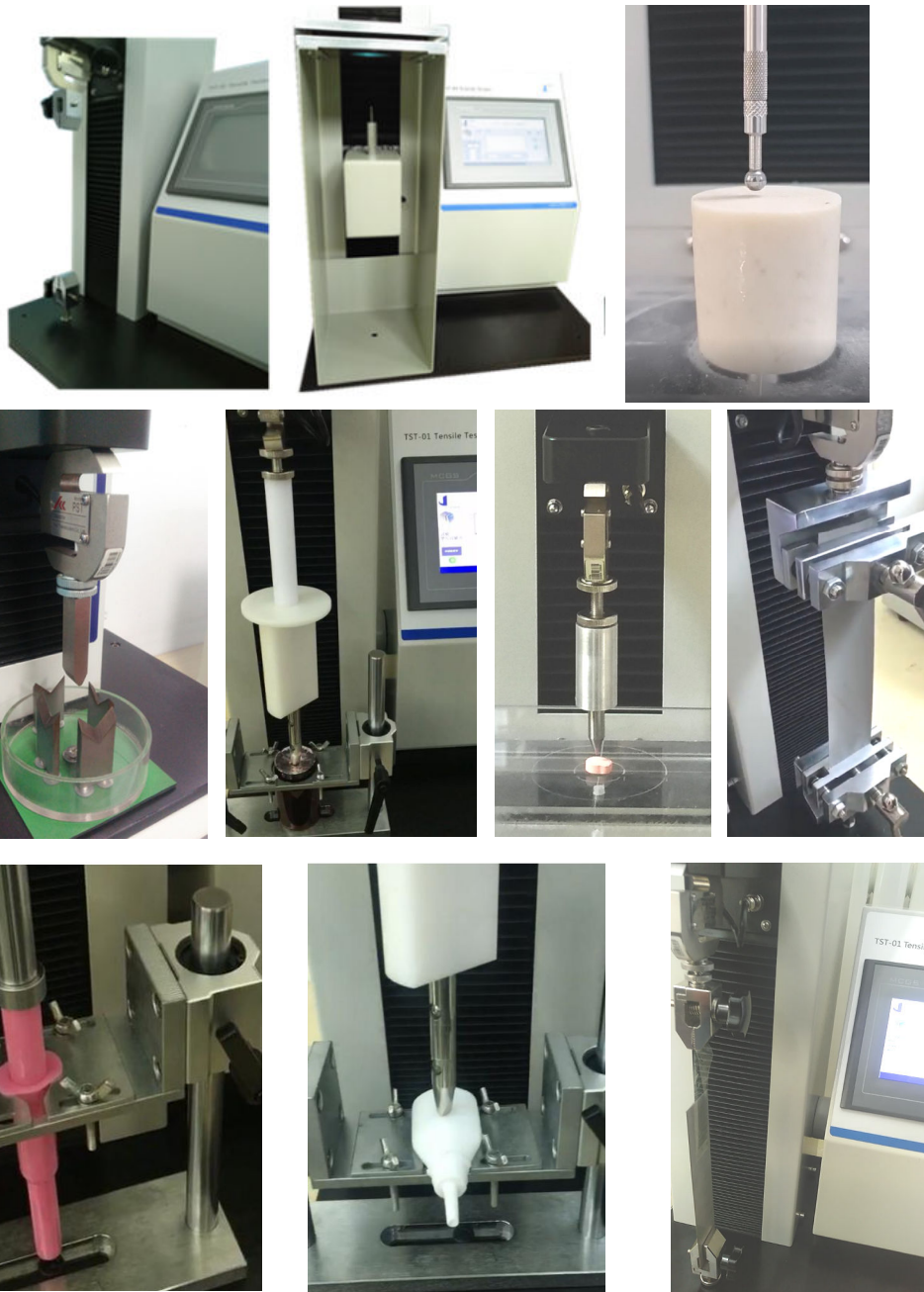
www.polytester.com
www.celtec.com.cn
materialstests.com

www.qualitester.com
www.leakagetester.com
pharmacopoeiatest.com

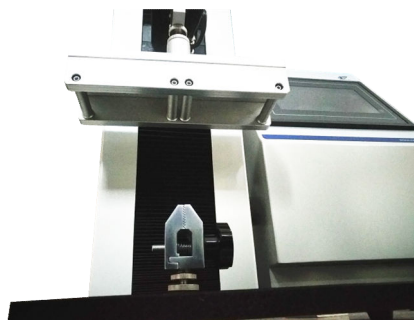


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Wide applications of TST-01 tensile tester



NOTE: Special accessories have extra cost and more can be made



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