

**CELL INSTRUMENTS**

| Material Testing Solutions

## TST-01 Tensile Tester with COF Assembly

### 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.

With the extended COF assembly, user can perform the coefficient of friction test.

### 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. Microprint (Optional)
9. RS 232 port for data communication and professional software (optional)

### Main Parameters

Test Range	0-500N (or 50, 100, 200 etc) 5N for COF
Stroke	800mm
Test Speed	1~500mm/min
Disp. Accuracy	0.01mm
Accuracy	0.5% Full Scale
Sample Width	27mm(optional available)
Control	PLC and HMI Screen
Power	110~220V



### Major Standards

ISO 37, ISO 527, ASTM F904, ASTM D882, ASTM E4, ASTM D3330, ASTM F904, ASTM F88, ASTM D1938, JIS P8113

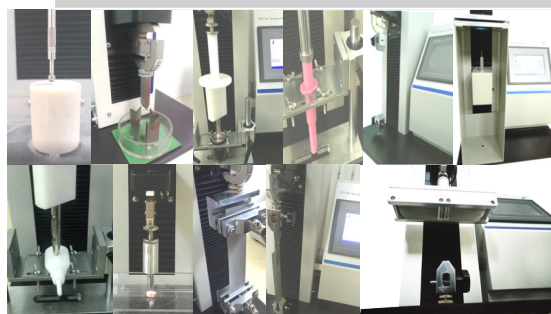
### Wide Applications of TST-01

### Configuration

TST-01 Tensile Tester, COF assembly (test bed, 5N loadcell, 200g sled, filament).

### Related Models

FPT-01 Friction and Peeling Tester  
COF-01 Coefficient of Friction Tester



*The Company reserves the right to update, modify, or amend this Catalog without prior notice.*

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