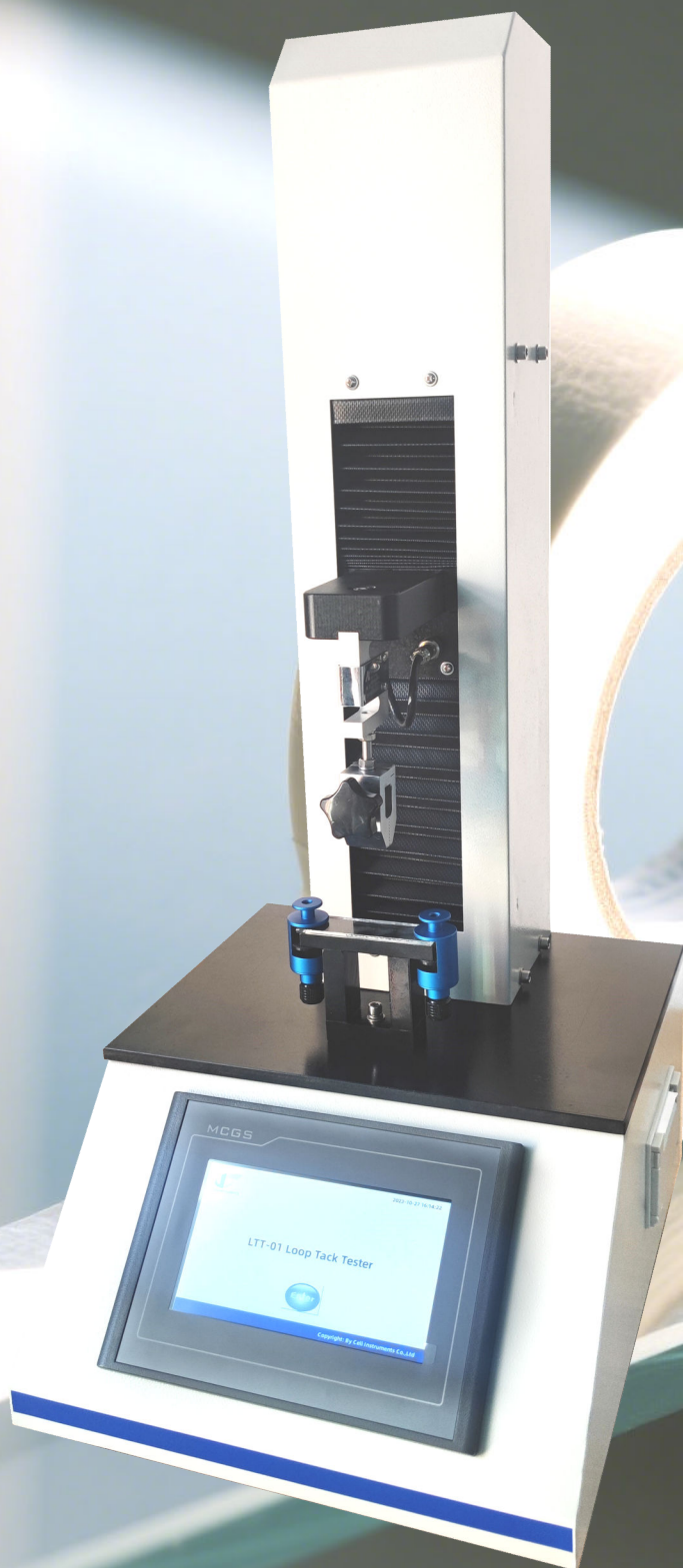




***Precision in Every Bond
– Ensuring Instant
Adhesive Reliability for
Demanding
Applications***

Discover the power of instant adhesion with the LTT-01 Loop Tack Tester—your definitive solution for quantifying tack and ensuring peel-fast performance in every pressure-sensitive application.



Why Loop Tack Matters

A rapid bond upon first contact is critical across labeling, packaging, and film applications. Loop tack measures that instant “stick”—the very first impression that determines consumer perception and end-use reliability.

In industries where rapid bonding is critical—from medical tapes to automotive labels—adhesive tack determines product quality. The LTT-01 Loop Tack Tester quantifies the instant sticking force of pressure-sensitive materials, ensuring compliance with global standards and optimal performance. By simulating real-world adhesion scenarios, this instrument enables manufacturers to deliver products that bond securely and consistently.

Applications

Adhesive loop tack testing is essential for any material that must form a rapid bond under minimal pressure. Typical uses include(not limited to):

- Pressure-Sensitive Tapes & Films: Masking, packaging, surface protection
- Labels & Stickers: Beverage labels, security seals, promotional decals
- Medical & Pharma: Transdermal patches, wound dressings, electrode pads
- Industrial Laminates: Graphic overlays, decorative foils, protective laminates

Test Principle

LTT-01 can conduct both Test Method A&Test Method B, facilitate both long and short samples.

Test Procedures

1. **Sample Preparation:** A 25 mm × 175 mm (or 125mm)adhesive strip is formed into a continuous loop.
2. **Engagement:** Loop is brought into contact with a standard float-glass plate under its own weight.
3. **Separation:** At 300 mm/min withdrawal speed, the loop is peeled away.
4. **Measurement:** The peak force (in Newtons) required to initiate separation is recorded as “loop tack.”

This single-step test yields repeatable, quantitative data on initial adhesion strength.

Standards & Compliance

ASTM D6195	Standard Test Methods for Loop Tack
FINAT 9	Loop tack measurement
PSTC-16	Loop Tack
GB/T 31125	Test method of adhesive tapes-Loop tack

Features & Benefits

1. Control & Interface

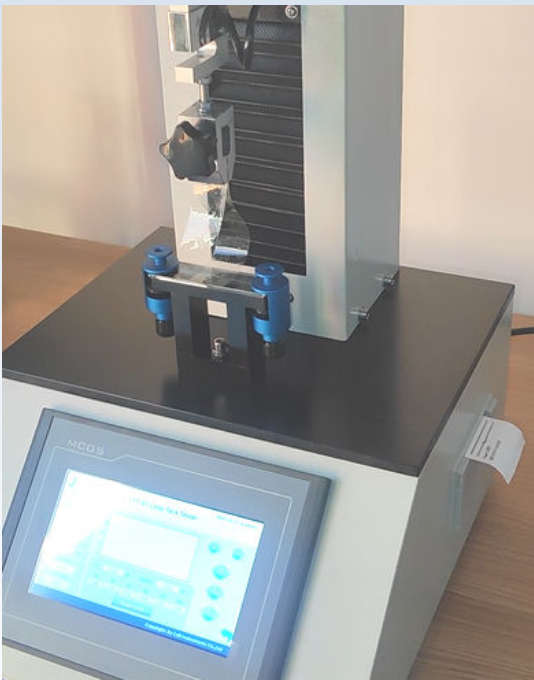
- 7-Inch Touchscreen & PLC Control: Intuitive operation with industrial-grade stability.
- Customizable Parameters: Adjust speed (1–500mm/min), easily adjustable starting point, and dwell time.

2. Precision Mechanics

- Ball Screw Drive: Ensures ±0.5% speed accuracy for repeatable tests.
- Compliant Glass Plate: Standardized surface for FINAT, PSTC-16, and ASTM compliance.

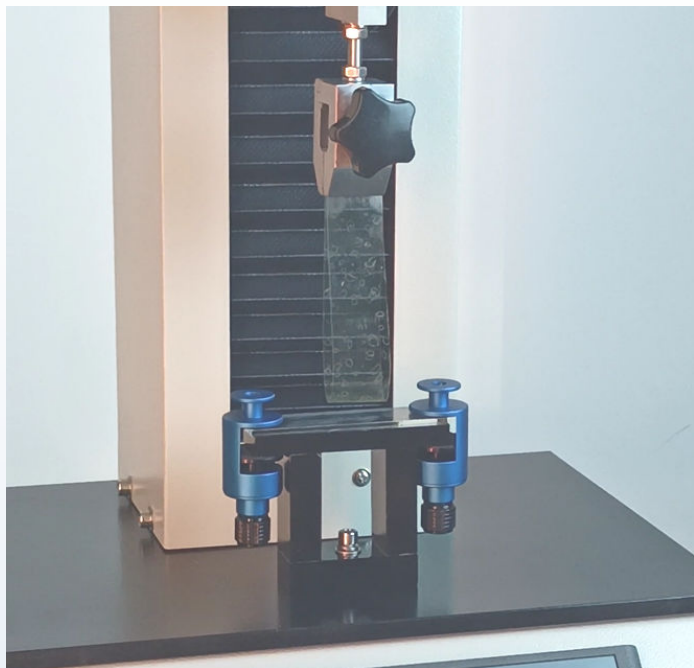
3. User-Centric Design

- Safety Mechanisms: Automatic return and limit devices protect machine and save user’s time.
- Microprinter: Instant test reports for traceability.
- Multiple Units Display: N, kgf, gf, KN and lbf are available.
- Optional Software: Data analysis and recording via RS232 connectivity.

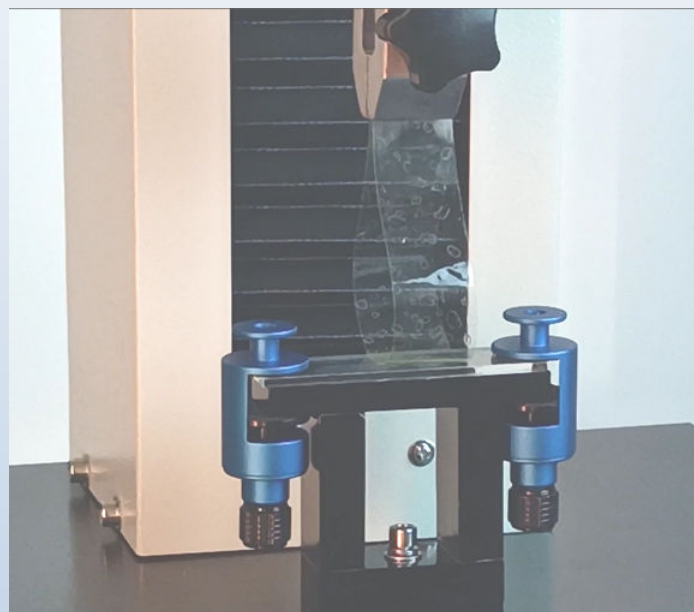


Specifications

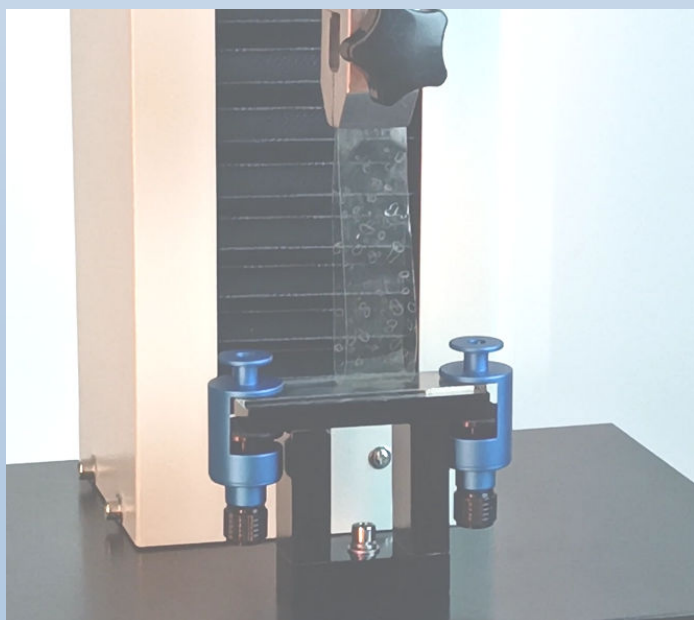
Test Range	200N (customizable)
Accuracy	±0.5%
Resolution	0.001N
Speed	1–500 mm/min
Accuracy	±0.1 mm
Stroke	200mm
Sample Size	125x25mm or 175x25mm
Power Supply	AC 110–220V, 50/60Hz



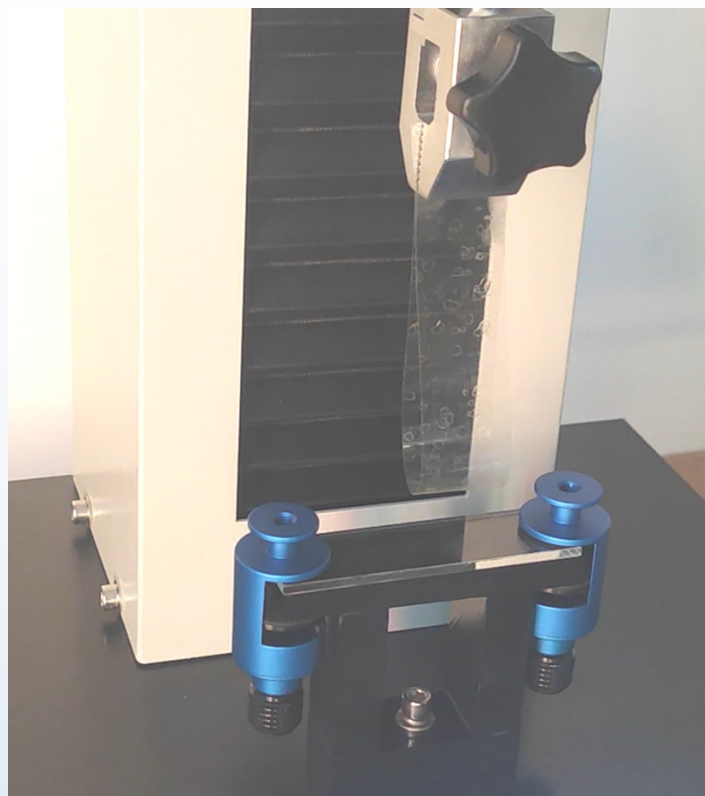
Before Tack



During Tack



After Tack



Pre-Test



Multi-Unit

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