

HTT-3701 Hot tack Tester



The HTT-3701 Hot Tack Tester is a highly accurate instrument for hot tack testing and heat seal strength test of flexible packaging materials, testing capabilities include hot tack, heat sealing and sealing strength, can provide critical application parameters needed to determine ideal sealing conditions for packaging films.

Features

1. Touch screen operation
2. Independent upper and lower sealing temperatures
3. Computer controlled pressure, up to 0.1N
4. Computer controlled sealing time and cooling time
5. Servo motor drive, max speed up to 3000mm/s
6. 2 automatic air activated clamps
7. Sample auto feed and back
8. Safety guards and switches for safe operation
9. Precision strain gauge for consistent sealing surface pressure
10. Measures actual dwell time on the sealing sample
11. Direct show hot tack curve, peeling curve, overlay curves
12. Foot pedal operation
13. Ethernet port, USB ports, mouse and keyboard port

14. Parameters are quantifiable, visualized, and traceable

Specifications

1. Sealing temperature: ambient - 300°C
2. Resolution: $\pm 0.1^{\circ}\text{C}$
3. Accuracy: $\pm 0.2^{\circ}\text{C}$
4. Sealing jaws: 10mm \times 40mm Standard (5mm,15mm optional)
5. Sealing pressure: $0.1\text{N}/\text{mm}^2$ - $4.0\text{N}/\text{mm}^2$
6. Sealing pressure sensor: strain gauge
7. Sealing pressure resolution: 0.01kgf
8. Sealing pressure accuracy: 0.09kgf
9. Sealing time: 0.1s~999.9s
10. Sealing time resolution: 10 ms
11. Sealing time control: $\pm 20\text{ms}$
12. Cooling time: 0.01s - 999.9s
13. Hot tack force: 0-100N(standard)
0-50N(optional)
0-250N(optional)
0-500N(optional)
14. Hot tack force accuracy: Max0.01%FS
15. Peeling speed: 0.5mm/s - 3000mm/s
16. Peeling control: servo motor controlled
17. Sample length: greater than 300mm
18. Sample width: less than 40mm(standard)
19. Sample thickness: less than 1mm(flexible)
20. Gas supply: 5bar - 8bar(self-provided)
21. Gas interface: $\Phi 6\text{mm}$
22. Power: 85-250VAC, 50Hz/60Hz
23. Dimension: 390mm (L) \times 420 mm (D) \times 730 mm (H)
24. Weight: 79kg

Standard

ASTM F1921, ASTM F2029, DIN 55571

Configuration

Standard: main unit, computer, foot pedal

Optional: strip sample cutter, sample plate、high temperature cloth



Strip Sample Cutter

Sample: flexible film

Strip number: 16pcs@15mm

Strip width: 10mm,15mm,20mm,25.4mm(on demand)

Strip length: 230mm, 350mm (optional)

Strip thickness: less 1mm

Dimension: 415 mm(L)× 290mm(W)× 213 mm(H)

Weight: 28kg



Sample Plate (SP-15,SP-25)

Sample: flexible film

Strip number: 6pcs@25mm

Strip width: 10mm,15mm,20mm,25.4mm(on demand)

Strip length: 350mm (optional)

Strip thickness: less 1mm

Dimension : 380mm(L)× 220mm(W)×3 mm(H)

Weight: 1.9kg

All specifications subject to change without notice.