

HTT-L1 Hot Tack Tester is applicable in hot tack and heat seal performance tests for plastic film, laminated film and other packaging film. Meanwhile, it is applicable in peel, shear, tension and other test items for adhesive, adhesive tape, laminated film, plastic film, paper and other flexible materials.



Professional Technology

- With Digital P.I.D. temperature control system, the preset temperature could be reached in a short time without fluctuations.
- 4 force test ranges and 6 testing speeds are available to meet the requirements of distinct customers
- 4 test functions including hot tack, heat seal, peeling and tensile resistance are available in this instrument
- Automatic zeroing, error alert, overload protection and stoke protection guarantee the safety operation
- Instrument could be started manually or by pedal switch which is convenient to the customer and the anti scald design ensures the safety operation
- The instrument is controlled by micro-computer with LCD display, PVC operation panel and menu interface
- Equipped with RS232 port which is convenient to the data transmission
- Support Lystem™ Lab Data Sharing System for uniform and systematic data management

Test Standards

This instrument conforms to various national and international standards: ASTM F1921, ASTM F2029, QB/T2358, YBB 00122003

Applications

Basic Applications	Hot Tack Performance	Plastic films, sheets and composite films e.g. PE, PP, PET and composite films used in packages for instant noodle, milk powder, washing powder, food and drugs etc.
	Heat Seal Performance	Plastic films, sheets and composite films
	Peel Strength	Adhesives, adhesive tape
	Tensile Resistance	Tensile resistance test of various films, sheets and composite films
Extended Applications	Medical Adhesives	peeling test and tensile resistance test of medical adhesives e.g. band-aid
	Textiles, non-woven fabrics and woven bags	peeling test and tensile resistance test
	Adhesive Tape	low speed unwrapping test
	Protective film	peeling test and tensile resistance test
	Magnetic Card	Peeling test of the film for magnetic card
	Bottle Cap	Opening force test of the aluminum plastic combination bottle caps

Technical Specifications

Item	Specification
Sealing Temperature	Room temperature ~ 250°C
Temperature Accuracy	± 0.2°C
Dwell Time (Heat Seal)	0.1 ~ 999.9 s
Dwell Time (Hot Tack)	0.1 ~ 999.9 s
Sealing Pressure	0.05 MPa ~ 0.7MPa
Sealing Area	100 mm x 5mm
Sealing Jaw	Single heating or double heating (Customized)
Pressure of Gas Supply	0.5 MPa ~ 0.7 MPa (Not in supply scope)
Port Size	Φ4mm PU Tubing
Instrument Size	1170 mm (L) x 360 mm (W) x 460 mm (H)
Power Supply	AC 220V 50Hz
Net Weight	45 Kg
Test Range	0 ~ 200N (30N, 50N or 100N is optional)
Accuracy	1% of reading value
Resolution	0.01 N
Load Speed	100 150 200 300 500 and hot tack (mm/min)
Specimen Width	15 mm, 25 mm or 25.4 mm(Optional and Customized)
Stroke	500 mm

Configurations

Standard Configurations	Mainbody, Pedal Switch, Hot Tack Grips, Calibration Frame
Optional Parts	Professional Software, Communication Cable, Customized Heat Seal Jaw, Test Plate, Welding Cloth, Customized Sample Grips, Sample Cutter, Customized Sample Positioning Plate
Note	<ol style="list-style-type: none"> 1. The port of gas supply of this instrument is Φ4 mm PU Tubing. 2. Customers will need to prepare for gas supply.