

PARAM® HST-H3 Heat Seal Tester

Professional

HST-H3 Heat Seal Tester is based on the heat sealing method, and is professionally applicable to the determination of heat seal temperature, dwell time, and the pressure of various composite films to guide industrial production. The instrument adopts the specially designed heat sealing jaws, which completely conform to multiple national and international.



- Digital P.I.D. temperature control technology ensures the preset temperature to be reached rapidly without fluctuations
- Wide range control of temperature, pressure and time that meet various test conditions
- Manual or pedal switch, as well as anti-scald design provides convenient and safe operating environment
- The instrument is controlled by micro-computer with LCD, PVC operation panel and menu interface
- Professional software supports remote operation for convenient data saving, exporting and printing

Precision

HST-H3 Heat Seal Tester utilizes precision mechanical structure design. The aluminum-encapsulated heat sealing jaws ensure uniform heat spreading along the sealing surface; cylinder-controlled sealing jaws equally apply pressure upon test specimens; rapidly removable heating tube joints provide convenient operation.

- Aluminum-encapsulated sealing jaws provide even and uniform temperature for different sealing surfaces
- Dual underneath type of gas cylinders ensure stable pressure during the test process
- The heating tube joints can be easily installed or removed for rapid replacement

High-end

HST-H3 Heat Seal Tester is designed based on the HST-H6 with more intelligent functions, which is the best choice for high-end users.

- Independent temperature control of the upper and lower jaws gives multiple combinations of test conditions
- Dual underneath and closed loop-type of gas cylinders ensure even pressure of sealing surface
- Extended sealing surface can seal large or several specimens at the same time
- Equipped with pedal switch for safe test operation
- Standard RS232 port and professional software facilitate to connect with computer and data transfer

Test Principle

HST-H3 Heat Seal Tester is composed of upper and lower heat sealing jaws. Before the test, preset the heat seal temperature, pressure and dwell time value, place the specimen in between the upper and lower jaws, and then press start button. The whole sealing process can be finished automatically.

This test instrument conforms to the following standards: ASTM F2029, QB/T 2358, YBB 00122003

Applications

HST-H3 Heat Seal Tester is applicable to the determination of heatsealability of:

Basic Applications	Films with Smooth Surface	Including plastic films, plastic composite films, paper-plastic composite films, coextruded films, aluminized films, aluminum foils, aluminum foil composite films and many others. Heat sealing surface should be smooth and width can be designed based on user requirements.
	Films with Decorative Pattern Surface	Including plastic films, plastic composite films, paper-plastic composite films, coextruded films, aluminized films, aluminum foil, aluminum foil composite films and many others. Heat sealing surface can be designed based on user requirements.
Extended Applications	Covers of Jelly Cups	The instrument is composed of the upper and lower jaws. The upper one is round-shape while the lower one is designed as a specimen mold whose size exactly fits the jelly cup. Put the jelly cup in the mold of lower jaw, and heat seal can be finished by upper jaw pushing. (Customization required)
	Plastic Flexible Tubes	The ends of plastic flexible tubes are placed in between upper and lower jaws and then sealed to form a package.

Technical Specifications

Specifications	HST-H3
Sealing Temperature	Room temperature ~ 300°C
Accuracy	±0.2°C
Dwell Time	0.1~999.9 s
Sealing Pressure	0.05 MPa ~ 0.7 MPa
Sealing Area	330 mm × 10 mm (customization available)
Heating Mode	Single heating surface or double heating surfaces
Gas Supply Pressure	0.5 MPa ~ 0.7 MPa (outside of supply scope)
Port Size	Φ6 mm PU Tubing
Instrument Dimension	536 mm (L) × 335 mm (W) × 413 mm (H)
Power Supply	220VAC 50Hz / 120VAC 60Hz
Net Weight	43 kg

Configurations

Standard Configurations	Instrument and Pedal Switch
Optional Parts	Professional Software, Communication Cable, Micro-printer and Printer Cable
Note	<ol style="list-style-type: none"> The gas supply port of the instrument is Φ6 mm PU Tubing; Customers will need to prepare for gas supply.

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