

HST-H3 Heat Seal Tester

The HST-H3 Heat Seal Tester is designed to determine the optimal heat seal parameters, including dwell time, sealing pressure, and sealing temperature, for plastic films, flexible composite films, plastic-coated paper, and other heat-sealable materials.

Product Features

- 7-inch color touchscreen with graphical user interface (GUI).
- Self-innovated digital P.I.D. "Constant Temperature Control" system ensures rapid attainment of the preset temperature.
- Independent temperature control for upper and lower jaws.
- Aluminum-encapsulated sealing jaws provide even and uniform temperature distribution.
- Wide range control of temperature, pressure, and time to meet various test conditions.
- Extended sealing surface allows for the heat-sealing of large or multiple specimens simultaneously.
- Anti-scald design for user safety.
- Users can choose between manual and pedal switch modes to start tests.
- Equipped with micro-printer and standard USB interface.



Principle

The heat seal tester consists of upper and lower heat-sealing jaws. Before the test, preset the values for heat-sealing temperature, pressure, and dwell time. Then, place the specimen between the upper and lower jaws and press the start button. The entire sealing process is completed automatically.

Standards

This test instrument conforms to many national and international standards:

ASTM F2029, QB/T 2358, YBB00122003

Applications

Basic Applications	Film with Smooth Surface	The instrument can seal various materials, including plastic film, plastic composite film, paper-plastic composite film, co-extruded film, aluminum film, aluminum foil, and aluminum-foil composite film. The heat-sealing surfaces can be designed according to users' requirements, with smooth surfaces and customizable widths.
	Film with Decorative	The instrument can seal various materials, including plastic film, plastic composite film, paper-plastic composite film, co-extruded

Extended Applications	Pattern Surface	film, aluminum film, aluminum foil, and aluminum-foil composite film. The heat-sealing surfaces can be designed according to users' requirements, with decorative pattern surfaces and customizable widths.
	Covers of Jelly Cup	The device consists of an upper and a lower jaw. The upper jaw is round, while the lower jaw is designed as a sample mold, precisely fitting the size of the jelly cup. To complete the heat seal, the jelly cup is placed in the lower jaw mold, and the upper jaw is pressed down (customization required).
	Plastic Flexible Tube	For flexible plastic tubes, the bottom of the tube is placed between the upper and lower jaws, which are then sealed to form a package.

Technical Specifications

Items	Specifications
Sealing Temperature	Ambient ~ 300 °C
Accuracy	±0.2 °C
Dwell Time	0.1 ~ 999.9 s
Sealing Pressure Sealing	0.05 MPa ~ 0.7MPa
Area	330 mm x 10 mm (customization is available)
Heating Mode	Single Heating Surface or Double Heating Surfaces
Gas Pressure Port Size	0.05 ~ 0.7 MPa (out of supply scope)
	Φ6 mm PU tubing
Instrument Dimension	305 mm (L) x 550 mm (W) x 421 mm (H)
Power Supply	120VAC 60Hz / 220VAC 50Hz (can be changed to local requirement)
Net Weight	40 kg

Configurations

Standard: Instrument, Micro Printer, Pedal Switch

Optional: Professional Software, Communication Cable

Note: 1. The air connection of the instrument is Φ6 mm PU Tubing.

2. Customers need to prepare for gas supply.