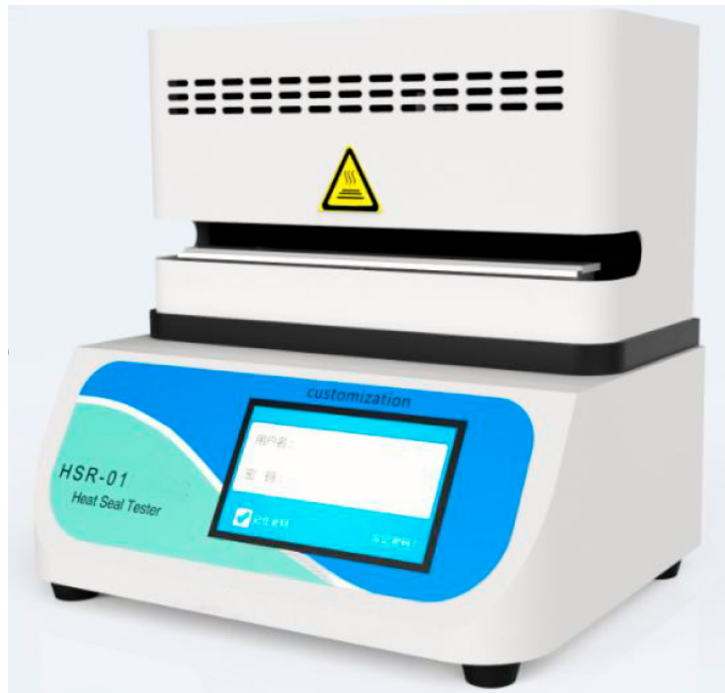


HSR-01 Heat Seal Tester

HSR-01 Heat Seal Tester makes heat seals by heat sealing method and can be professionally applied to the determination of the heat sealing parameters including heat seal temperature, sealing pressure and dwell time. HSR-01 Heat Seal Tester is one necessary testing instrument for laboratories, factories, scientific research organizations and institutes.



Product Features

- Embedded micro-computer chips, simplified and efficient user interface provide users with comfortable and smooth operating experience.
 - Standard, modularized and systematic designs can meet personalized requirements of the users.
 - The instrument is equipped with touch screen, with which the instrument can be easy to operate.
 - 7inch HD LCD, displaying test data and curves in real time
 - Manual or pedal switch, as well as anti-scald design guarantee a convenient and safe operating environment.
 - Independent temperature control of the upper and lower jaws can meet the requirements for different combinations of testing conditions.
 - By using digital P.I.D temperature control technology, the preset sealing temperature can be achieved in a short period without fluctuation.
-

Originality Design:

- Imported high-speed and high-precision chips guarantee the testing accuracy and efficiency.
- Heat sealing temperature and dwell time parameters can be preset, input the value to enter the test mode
- Patented design of sealing jaws ensures the uniformity of sealing temperature on the sealing surface, the uniformity of the whole heat sealing jaws up to $\pm 1^{\circ}\text{C}$
- The use of high temperature resistant cylinder design avoids the influence of the temperature of the heat seal jaws on the pressure
- Test parameters such as heat sealing temperature, pressure and dwell time can be input by operating on the touch screen, which is convenient and quick to operate
- The width and length of the heat seal jaws can be customized, which is not affected by the structure of the heat seal jaws
- The software can be equipped with data traceability, which can realize functions such as multi-level authority management, audit trail, electronic signature, etc., which meets the requirements of GMP (optional)

Test Principle

HSR-01 Heat Seal Tester makes heat seals by heat sealing method. It can be used to determine the optimal sealing parameters including sealing temperature, sealing pressure and dwell time, for the purpose of determining heat seal ability of flexible barrier materials. Firstly, the sealing temperature, sealing pressure and dwell time should be set on the touch screen and then the instrument will be controlled by embedded micro-processor and run the pneumatic driving mechanism so that the upper sealing jaws will move downward and complete the heat sealing of the packaging materials. By trying different combinations of those sealing parameters, the optimal sealing temperature, sealing pressure and dwell time can be determined.

Applications

Basic Applications	Films	Plastic films, plastic composite films, paper-plastic composite films, coextruded films, aluminum coated films, aluminum foils, aluminum foil composite films and many others. Note: The width of sealing surface can be customized upon user's requirements.
Extended Applications	Sealing Surfaces	Various types of sealing surfaces can be customized upon user's requirements.
	Jelly Cups	Jelly cups can be sealed with special testing accessories.
	Soft Plastic Pipes	Soft plastic tubes can be sealed from one end and become packaging containers

Technical Specifications

Specifications	HSR-01
Sealing Temperature	Room temperature ~ 300 °C
Sealing Pressure	50~ 700 Kpa (Depend on sealing area)
Dwell Time	0.1 ~ 999.9s
Temperature Accuracy	±0.2 °C
Temperature Uniformity	± 1 °C
Heating Mode	Double Heating Surfaces (Independent Control)
Sealing Area	330 mm × 10 mm (Customization Available)
Gas Supply Pressure	0.7 MPa~0.8MPa (Not in Supply Scope)
Port Size	Φ6 mm PU Tubing
Instrument Dimension	400 mm (L) × 320 mm (W) × 400 mm (H)
Power Supply	AC 220V 50Hz / AC 120V 60HZ
Net Weight	40 kg

Standards

ASTM F2029, QB/T 2358, YBB 00122003

Configuration

Standard Configuration: Instrument, Pedal Switch

Optional Parts: Micro-Printer, Sample Cutter 15#, Silicon Rubber Plate, High-temperature Welding Cloth

NOTE: 1.The gas supply port of the instrument is Φ6 mm PU Tubing;
 2. Customers will need to prepare for gas supply.
