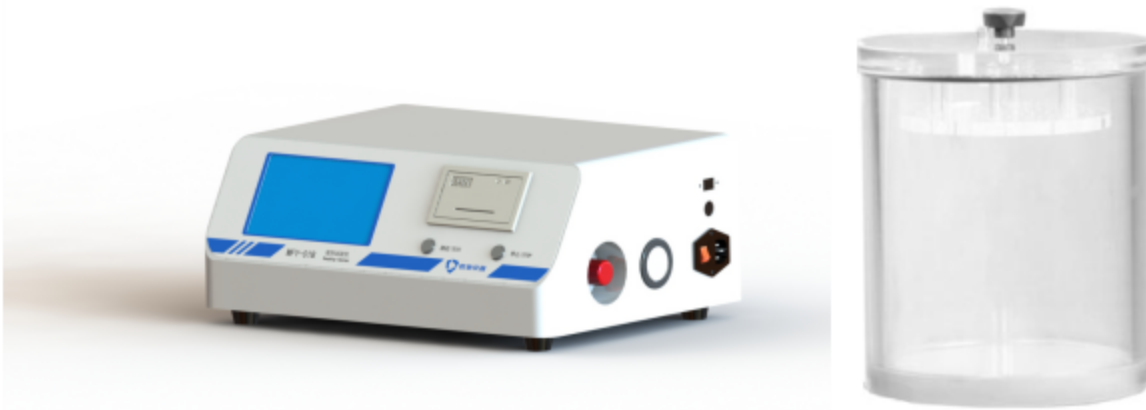


## HST-ST90B Fully Intelligent Sealing Tester



Note: The picture is for reference only

### Product Applications:

Suitable for sealing tests of packaging bags, bottles, tubes, cans, boxes, etc., in the food, pharmaceutical, medical device, daily chemical, automotive, electronic component, and stationery industries. Meets the latest pharmaceutical GMP certification testing requirements. Can also perform sealing performance tests on specimens after drop and pressure resistance tests.

### Application Industries:

1) Food Industry: Soft Packaging: Bagged milk powder, cheese, coffee sticks/packs, mooncakes, seasoning packets, snack foods, tea bags, bagged rice, potato chips, pastries, puffed foods, Tetra Pak cartons, sunflower seeds... food bags of any shape, material, and size. Semi-rigid Packaging: chilled meat, fruit and vegetable salads, trays, soft canned goods, yogurt, ketchup, tubled potato chips (snack foods), jelly... semi-rigid packaging of any shape, material, and size. \*\*Rigid Packaging:\*\* Canned milk powder, beverage bottles, oil drums, canned goods, tubs of biscuits, coffee bottles, aluminum cans, condiment bottles...any shape, material, and size of rigid packaging.

2) Pharmaceutical Industry:\*\* Sealed Containers: Vials, ampoules, syringes, oral liquids, eye drops, sterile bags, infusion bags/bottles, liquid injections, powder injections, BFS bottles, API bottles, BPC bottles, FFS bottles, etc.—any shape, material, and size of sealed containers. Blister Packaging: Samples of powders, tablets, capsules, contact lenses, etc., packaged in blister packaging. Small Headspace Packaging: Powder packaging, small-dose powders, etc., with extremely small headspaces.

3) Others:Tyvek, various aluminum foil bags, wet wipes, cosmetic packaging, etc.

**Product Features:**

1. Microcomputer control, test parameters can be set, and the test process is fully automated;
2. Seven-inch LCD touchscreen displays the test process, simultaneously displaying parameters such as set pressure, set holding time, and real-time pressure;
3. PVC operation panel with physical buttons for test and stop, simple and convenient operation, and durable metal buttons;
4. The sealing tank is made of imported high-quality organic glass tubing with a wall thickness of 15mm, the thickest in the industry;
5. Holding time, test pressure, and pressure differential can all be preset, enabling one-button operation of the test process;
6. Precision imported pneumatic components ensure superior sealing performance and reliable quality;
7. The instrument is equipped with two test modes: single-point pressure mode and multi-point incremental pressure mode;
8. Automatic constant pressure replenishment based on the pressure differential during the test, eliminating the need for manual operation;
9. Automatic backflushing to unload pressure after the test saves more operation time;
10. Imported pressure sensor;
- 11 Built-in pressure calibration module supporting multi-point pressure calibration for convenient third-party calibration;
- 12 Multiple pressure overload and electrical safety protections ensure instrument and operator safety;
- 13 The instrument features a built-in vacuum gas filter and compressed air filter, with externally mounted devices for easy water drainage and impurity cleaning, effectively ensuring the safe operation of internal components;
- 14 The instrument has test result judgment, storage, and query functions, and is equipped with a thermal micro printer for direct output and printing of test results;
- 15 The instrument's main unit is made of stainless steel with a high-temperature powder coating finish, meeting the cleanliness requirements of the pharmaceutical industry;
- 16 The instrument meets the GMP Level 3 access control requirements for pharmaceutical packaging;
- 17 Optional standard serial PC communication interface or network port output and USB flash drive data export function;
- 18 Optional laboratory data management system for multi-unit online data statistical management.

**Test Principle**

- 1) By evacuating the vacuum chamber, a pressure difference is created between the inside and outside of

the sample immersed in water. The escape of gas from the sample is observed to determine the sample's sealing performance.

2) By evacuating the vacuum chamber, a pressure difference is created between the inside and outside of the sample. The expansion of the sample and its shape recovery after the vacuum is released are observed to determine the sample's sealing performance.

### Technical Parameters

Specifications	Parameters
Model	HST-ST90B
Power Supply Voltage	AC220V 50HZ
Pressure Range	0 ~ -90kPa
Pressure Accuracy	± 0.1kPa
Control Method	Microcomputer control, fully automatic testing, pressure compensation, and termination
Display Method	LCD touch screen display, thermal printing output
Test Mode	Single-point pressure mode, gradient pressure mode
Time Range	0 - 999999s (can be increased)
Gas Source	Compressed air (self-provided or optional)
Gas Source Interface	Φ6 polyurethane tubing
Effective Vacuum Chamber Dimensions	Φ270×210 mm (H), (standard configuration) Note: Other sizes can be customized
	Φ360×585 mm (H), Φ460×330 mm (H) (optional)
External Dimensions	Main unit 450(L)×370(B)×190(H)mm; Vacuum chamber Φ300×350 mm (H)
Net Weight	16KG
Standard Configuration	Main unit, sealed container, air tubing, power cord, instruction manual
Reference Standards	ASTM D3078 "Standard Test Method for Determination of Leakage in Flexible Packaging by Bubble Method"
	GB/T 15171 Test Method for Sealing Performance of Flexible Packaging

### Product Configuration

Standard Configuration: Main unit, sealed container, air hose, power cord, instruction manual;

Optional Accessories: Computer, professional software, communication cable, transparent acrylic testing container, sample fixing basket, non-standard testing accessories;

Note: The air source interface of this machine is a Φ6mm polyurethane tube.

# FOCUS IN MATERIAL TEST

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