

LSD-02 Leak And Seal Strength Detector

LSD-02 Leak and Seal Strength Detector is applicable in the quantitative measurement of leak, heat seal strength, heat seal quality, and burst pressure of each heat seal edges of the flexible packages that are made using heat seal and adhesive processing, as well as sterilized packages; the quantitative measurement of leak performances of all kinds of plastic pilfer-proof closures; the quantitative measurement of the unitary airproof, compression resistance strength, cap body joint strength, cap disengaging strength, seal strength of edge and butting strength of various flexible tubes. It can also provide evaluation and analysis for the compression and burst resistance strength of the materials of flexible packaging bags, the torsional airproof index of cap, the cap joint and disengaging strength and the stress strength; as well as the airproof performances, the compression resistance performance and the burst resistance character of unitary bottle, etc.



CHARACTERISTICS

- Three test modes of burst, creep and creep to failure are available.
- PLC programmable logic controller realizes precise pressure and time control.
- 7 inch TFT touching screen for convenient parameter setting and test operation.
- Multiple groups of test parameters can be save to avoid repetitive setting.
- Test result auto statistics and storage.
- Program customization available.

TECHNICAL INDEXES

- Test Range: 0~600kPa; 0~87.0 psi (Standard)
- Gas Source Pressure: 0.4MPa~0.9MPa (Users provide gas sources themselves)
- Power: AC 220V 50Hz

STANDARDS

ASTM F1140, ASTM F2054, ISO 11607

CONFIGURATION

Standard: mainframe, testing shelf

Optional: testing accessories (restraining plate, test fixture for open packages, test fixture for airproof of flexible tubes, test fixture for aerosol valves)

Please Note: pictures used are for illustration purposes only and may differ from the actual product received.

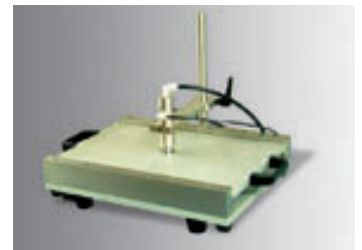
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LSD-02 OPTIONAL FIXTURES

1. LSD-02R Fixture for Closed Package Restraining Test

1.1 **LSD-02R Fixture for Closed Package Restraining Test** is applicable in the measurement of heat seal strength, the quality of heat seal, the burst pressure and the seal-leakage character of each heat seal edges of the flexible packages that are made using various kinds of heat seal techniques, as it is internally pressurized and enclosed within restraining plates; Such as the packages and laminated packages of food and medicines etc. Meanwhile, LSD-02R could also used to evaluate the compression and burst resistance of the materials for flexible package bags. The limit height of restraining plate is designed in strict accordance with the relevant standards, replace freely and operate easy. By adopting the LSD-02R, the load to each part of the samples could be even and on the safe side. All the results including bursting pressure, leakage quantities under force and creep tests could be displayed on LCD directly.



1.2 Dimension of flexible packages: 390mm×260mm

1.3 Height of restraining settings: 6.5mm, 12.7mm, 25.5mm

Note: we supply customization.

2. LSD-02P Fixture for Open Package Unrestrained Test

2.1 **LSD-02P Fixture for Open Package Unrestrained Test** is applicable in testing the heat seal techniques of variety of flexible packaging bags with single open



edge. Besides, it could also be used to evaluate the bursting strength, leak character of the packages as well as the raw materials. Pneumatic clamping, convenient operations and high accuracy. The results of bursting pressure, leakage index under pressure etc could be showed in LCD clearly.

2.2 Maximum width of packages: 300mm

Note: we supply customization.

3. LSD-02C Fixture for Plastic Pilfer-proof Closure Test

3.1 **LSD-02C Fixture for Plastic Pilfer-proof Closure Test** is applicable in the quantitative testing of airproof performance for plastic pilfer-proof closures (with or without pressure). It could also give the analysis of the index between torque and airproof, capsule disengaging strength, stress force of materials and the data of airproof, press resistance, burst resistance for the whole bottles. Rapid clamping structure makes the operation easier and more convenient. Special translucent design for the observing chamber lies the unitary notion, which generates three mainly advantages as followed: first, easy to read the result. Second, keep safe for the whole testing process. Third, it is good for keep the testing environment. Testing pressure, quantity of leakage etc could be showed on LCD directly as well as by observing the bubbles in the translucent testing chamber.



3.2 LSD-02C is applicable to the capsules with the diameter of thread is 28mm and 38mm.

Note: we supply customization.

4. LSD-02F Fixture for Flexible Tubes Test

4.1 **LSD-02F Fixture for Flexible Tubes Test** is applicable to the quantitative testing of leak character, compression resistance strength, capsule disengaging strength, cap body joint strength, seal resistance of sealing edge and the butting strength of all kinds of flexible tubes. For example: medical polythene/ aluminum/ compound polythene tubes/ aluminum medical tubes/ cosmetic flexible tubes. The operation of LSD-02F is easy and convenient, short-period and high efficiency testing process. Bursting strength, quantity of leakage within unit time and other relevant results could be showed on LCD directly, which is helpful for users to control the manufacturing index. Many kinds of specifications and size are available. However, It could be manufactured by customers' requests.



Note: we supply customization.

5. LSD-02A Fixture for Aerosol Valve Seal Performance

5.1 LSD-02A Fixture for Aerosol Valve Seal Performance is applicable in the digital and quantitative

measurement of fluency, leak pressure, leak rate, seal performance, and pressure resistance strength of aerosol valves. It is a necessary instrument for manufacture, application, logistics and inspection. At the same time, it can be applied in the packaging crease, welding seal and leak testing of paint tins and pigment tins, etc.

