



Hydraulic Bursting Strength Tester Model: ADL-BT03H

Application

Used for measuring the performance of burst strength and burst expansion of various knitted fabrics, woven fabrics, non-woven fabrics, paper, leather, plastics, and other materials when subjected to simultaneous forces in warp and weft directions.

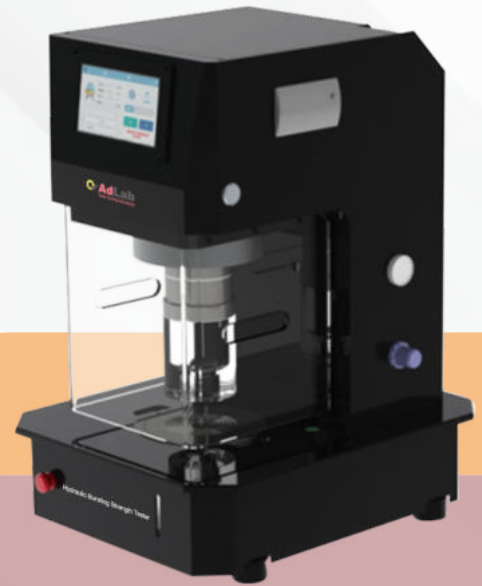
Existing data indicates that there is no significant difference in the bursting strength results obtained using hydraulic and pneumatic bursting instruments when the pressure does not exceed 800kPa. This pressure includes the performance level of most ordinary clothing. For special textiles that require high bursting pressure, hydraulic method is more suitable

Standards Compliant

GB/T7742.1, FZ/T60019, FZ/T01030, ISO13938.1, ASTM D3786, JIS L1018 6.17, BS 3424-6, ISO3303-2, EN12332-2, Adidas, Next, Mothercare and other related standards

Features

1. Adopting industrial grade color touch screen display and control, the user-friendly human-machine interface is simple and easy to understand, and the operation is more convenient. Chinese and English display can be converted.
2. The expansion height adopts non-contact laser ranging technology, which has high measurement accuracy, stability, and reliability.
3. It has four testing methods: constant rate expansion, constant pressure cycling, constant expansion degree, and timed expansion. Multiple testing methods meet the requirements of different industries.
4. The units of bursting strength can be selected (kPa, bar, psi), and the units of bursting height can be selected (mm, cm, inch) to meet the requirements of different standards.
5. Equipped with various sample holders and automatic recognition function of sample fixtures.
6. The sample is clamped using a pneumatic gripper, and the slow pressing method ensures that the sample is not damaged and does not slip.
7. It has a pressure over range protection function to prevent damage to the instrument.
8. The high transparency organic glass sample holder cover is equipped with an embedded LED lighting, which can clearly observe the test process.
9. An external organic glass safety cover is installed to prevent pinching and ensure safer use.
10. It has the function of storing experimental data and printing test reports



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Technical Parameter

- Color touch screen - 7 inches
- Printer - Micro thermal paper printer
- Sample clamping method - pneumatic gripper
- Expansion pressure range - 0-2.00Mpa, division value: 0.0001Mpa
- Test accuracy - $\leq \pm 0.2\%$ FS
- Test mode - constant speed expansion, constant pressure cycle, constant expansion degree, timed expansion
- Pressure rate - 50-500ml/min
- Test area - Standard configuration: 50cm² (ϕ 79.8mm), 7.3cm² (ϕ Two types of area clamps (30.5mm)
- (Optional with other area clamps)
- Expansion height range - When the test area is 50cm², it is ≤ 70 mm, and the division value is 0.01mm;
When the experimental area is 7.3cm²: ≤ 30 mm, the division value is 0.01mm
- Measurement method for swelling height - laser ranging
- Laser sensor accuracy - $\pm 0.1\%$ FS
- Elastic diaphragm - thickness < 2 mm
- Output format - Real time display, query display, print out test reports
- Unit of bursting strength - kPa, psi, bar optional
- Expansion height unit - mm, cm, inch optional
- Boundary dimension - W450 \times D540 \times H670m
- Power supply voltage - AC220V $\pm 10\%$; 500
- Weight - 75kg

Note: Gas source requirements: Pressure: 0.70MPa-0.80MPa

Standard Configuration

- Sample holders - 7.3cm², 50cm²
- Elastic diaphragms - 2 pcs
- Calibrate sealing plate - 1 pc
- Standard measuring block - 1 pc

**Technical Data Subject to change without notice.*

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At AdLab, we combine expertise in precision engineering with advanced laboratory technology to create innovative and reliable testing instruments. Our team of skilled professionals continuously works on improving product designs, integrating the latest advancements in technology, and ensuring compliance with international quality standards. With a strong focus on research and development, we provide customized solutions that cater to the unique needs of our customers worldwide.

Our Products

AdLab offers a wide range of high-quality laboratory and textile testing instruments, including Yarn & Fiber Testing Instruments, Laboratory Fume Hood Chambers, Ovens & Incubators, Water Baths, Textile Testing Instruments, Dyeing & Finishing Machines, Ceramic Testing, Tensile Testing, Washers & Dryers, Needle Detectors, and In-House Testing Equipment. Designed for precision and efficiency, our products ensure accurate testing and reliable performance across various industries.

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At AdLab, customer satisfaction is our top priority. We provide comprehensive support services to ensure the smooth operation of our equipment, including:

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- ✓ Installation & Training – We offer professional installation services and hands-on training to help users operate our equipment efficiently.
- ✓ Calibration & Maintenance – Regular calibration and maintenance services ensure that your laboratory instruments remain accurate and in optimal working condition.
- ✓ Customized Solutions – We provide tailored solutions to meet specific industry requirements, helping our clients achieve maximum efficiency in their operations.

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