



## HydroBurst Bursting Strength Tester

The HydroBurst Bursting Strength Tester utilizes hydraulic bursting (diaphragm method) to determine the bursting strength and expansion of knitted fabric, woven fabric, non-woven fabric, laminated fabric, elastic woven fabric, paper and other materials when subjected to stress in both warp and weft directions, as well as in all other directions, to get the material's resistance to bursting.

# HydroBurst

## Bursting Strength Tester



- Smart identification system for testing cups**  
 When changing the testing cup, the system can automatically identify the current testing cup model and switch the testing parameters automatically, which also greatly improves work efficiency.  
 In addition, the mechanical shell of HydroBurst is made of steel plate with electrostatic spraying process, which makes the appearance generous. The mechanical interior is mainly composed of high-quality lightweight all-aluminum structure, which greatly reduces the weight of the whole machine.



**Power**  
230V 50/60Hz 5A



**Weight**  
130 kg



**Dimension**  
500\*830\*660mm (D\*W\*H)

- Smart instrument**  
 Can be connected through Wi-Fi with SmarTexLab App installed in the smart phones, set parameters, monitor the test status, receive equipment warning reminders, replenishment reminders, etc., and share test results with one click.
- Smooth operation, precise and durable**  
 The hydraulic system adopts full servo control and precise screw drive, providing smooth operation, precise and durable transmission, and low noise.
- High-precision testing**  
 The pressure measurement part is equipped with a high-precision pressure sensor, with accuracy up to 0.2, which means the deviation is 0.2% of the maximum range.
- Longer service life of sensors**  
 HydroBurst is equipped with the Panasonic laser displacement sensors which have no rod and are easy to replace testing cups, thus providing sensors with better protection and reducing the risk of damage compared to traditional rod-type sensors.
- Automatic testing improves efficiency.**  
 During the testing process, the protective cover automatically descends, and then the testing cup is pressed for testing. When the test is completed, the testing cup automatically lifts, and the protective cover automatically ascends. The testing process is automated, without manual operation, which improves work efficiency and reduces operation risks.

### Specifications

Testing mode	fixed-speed bursting, fixed-pressure bursting, fixed-expansion bursting, and fixed-time bursting.
Measurement range	0-10 MPa ± 1%
Testing rate	50-500 ml/min
Hydraulic medium	glycerin
Testing cup size	7.310 cm <sup>2</sup> (diameter: 30.5 mm ± 0.2 mm) 10 cm <sup>2</sup> (diameter: 35.7 mm ± 0.2 mm) 50 cm <sup>2</sup> (diameter: 79.8 mm ± 0.2 mm) 100 cm <sup>2</sup> (diameter: 112.8 mm ± 0.2 mm)
Maximum expansion height	70 mm ± 1 mm
Operating environment	temperature: 20°C ± 5°C, humidity: 50-70%RH
Installation conditions	air supply pressure of 6~8 bar (ensure that the air is clean and dry)

### Standard

GB/T7742.1-2005 ISO13938-1-2019  
ASTM D3786/D3786M-18