



AirBurst

Bursting Strength Tester

Bursting strength testers are usually hydraulic or pneumatic. The AirBurst pneumatic tester is for testing common materials like textiles, films, paper, foam, and plastics. Its simple design makes it easy to operate and maintain. The HydroBurst tests materials needing high, stable pressure, like high-strength textiles and leather. The AirBurst can realize one-button test. It has built-in test standards and lets users define test modes for flexible testing. Clamping pressure is precisely adjustable, widely adapted to different sample testing. It can automatically recognize the test cup, to reach quick test and avoid errors. Automatic lifting of the protective cover ensures safety throughout the test. Compact body, modular design, easy calibration and maintenance.

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- One pre-test can accurately control the bursting speed**

AI algorithms control the pneumatic system. They only need one pre-test to control the expansion speed within the 20s standard.

- High Precision Sensor**

The pressure measurement part uses high-precision pressure sensors, and the precision can reach 0.2 level.

- Smart recognition system for test cups**

When replacing the test cup for testing, the system will automatically recognize the model of the current test cup and automatically switch the test parameters without manual input changes, greatly improving work efficiency.

- Accurate measurement of expansion height**

The micron-polar laser sensor goes right to the test sample, and the high-speed response makes testing faster and more accurate.

- Smart Bursting Strength Test**

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It then connects to ERP/LIMS through an API. The instrument can also connect directly to ERP/LIMS. Test orders and standards can be sent to the instrument. The sample information can be read by scanning the code. The program can be automatically selected and tested. After the test, a digital raw record will be created. It will include the test process, results, temperature, and humidity. This record will be uploaded to the system. It will be summarized with other tests to output a report. All relevant parties can view the report in real-time. The operator can remotely monitor the status of multiple tests. They can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. You can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



Power

AC 220V 50HZ



Weight

120kg



Dimension

600*360*660 mm (L*W*H)

Specification

Maximum air pressure	1.4 MPa
Measurement accuracy	±2% FS
Measuring range	0.01~1.4 Mpa
Maximum expansion height	70±1mm
Operation System	Android
IoT (Internet of Things)	configuration is required

Test cup mode、Fixture mode and related dimensions

Test Cup 1(Standard) 2.Z.CV 142.01 7.3cm²(Dia.30.5mm±0.2mm)
Lower fix ture base 1(Standard)

2.Z.CV 142.11 7.3cm²(Dia.30.5mm±0.2mm)

Test Cup 5(Standard) 2.Z.CV 142.05 50cm² (Dia.79.8mm±0.2mm)
Lower fix ture base 5(Standard)

2.Z.CV 142.15 50cm² (Dia.79.8mm±0.2mm)

Test Cup 2(Optional) 2.Z.CV 142.02 7.55cm²(Dia.31mm±0.2mm)
Lower fixture base 2(Optional)

2.Z.CV 142.12 7.55cm²(Dia.31mm±0.2mm)

Test Cup 4(Optional) 2.Z.CV 142.04 10cm² (Dia.35.7mm±0.2mm)
Lower fixture base 4(Optional)

2.Z.CV 142.14 10cm² (Dia.35.7mm±0.2mm)

Test Cup 6(Optional) 2.Z.CV 142.06 100cm² (Dia.112.87mm±0.2mm)
Lower fix ture base 6(Optional)

2.Z.CV 142.16 100cm² (Dia.112.87mm±0.2mm)

Test diaphragm(optional) 4.M.020 Dia.148mm*1.6mm(10pcs/box)

Maximum expansion height 65mm±1mm

(with test cup of 50cm² also can be used for 70mm±1mm)

Operating environment temperature 20°C±5°C, humidity:50%~70%.

Installation conditions air supply pressure of 5~8 bar
(ensure that the air is clean and dry)

Standard

ISO 13938-2

GB/T 7742.2

ASTM D3786

Environmental Requirements

Operating temperature range 20 °C±2°C

Storage temperature range -20°C~60°C

Operating humidity range 65% ± 4%

Air source 0.4 ~0.7MPa

Specification	Standard	GB/T 7742.2 -2015	ISO13938 -2-2019	ASTMD3786/ 3786M-18(2023)
Test Fixture	7.3cm ² (φ 30.5mm)	✓	✓	✓
	7.55cm ² (φ 31±0.75mm)	—	—	✓
	10cm ² (φ 35.7±0.5mm)	✓	✓	—
	50cm ² (φ 79.8mm)	✓	✓	—
	100cm ² (φ 113±1mm)	✓	✓	—