



**BURST STRENGTH  
TESTER FOR PAPER,  
TEXTILES AND  
LEATHER - AUTOMATIC  
DIGITAL MULLEN-TYPE**

## STANDARDS

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ASTM D2210

ASTM D3786

ASTM D3786M-18

ISO 2758

TAPPI T403

## APPLICATIONS

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### **Burst Strength Tester for Paper, Textiles and Leather - Automatic Digital Mullen-type**

Introducing the upgraded version of our QualiBurst™ MP Automatic Mullen-type Digital Burst Strength Tester, designed to measure the bursting strength of paper, corrugated paper, cardboard, fabrics, leather, and more.

Upon sample detection, the QualiBurst™ MP Burst Strength Tester automatically grips it, conducts the burst test, and displays the results. The test piece, held between annular grips, is subjected to increasing pressure by a rubber diaphragm, which expands under hydraulic pressure at a controlled rate until the test piece ruptures. The maximum pressure reading up to the rupture point is recorded as the bursting strength.



### **WIDE APPLICABILITY:**

Ideal for various industries, including paper, packaging, material science, leather, textile, automotive, and industrial manufacturing.

### **EFFICIENT TESTING SOLUTION:**

Provides consistent pressure and ensures the sample and diaphragm inflate uniformly until the break point is reached.

## **BURSTING STRENGTH DATA:**

Uses the maximum hydraulic pressure required to break the samples as an index to evaluate the strength and resistance of materials.

## **QUALITY ASSURANCE TOOL:**

The QualiBurst™ MP plays a crucial role in quality assurance, ensuring the consistency and reliability of product quality by accurately measuring the strength of materials.

## **STANDARD CONFORMITY:**

Ensures that products meet industry standards and satisfy quality expectations in the market.

*Mullen® is a registered trademark of SDL Atlas. Qualitest's instruments are Mullen-type burst strength testers not affiliated with SDL Atlas.*

# **Burst Strength Tester for Paper, Textiles and Leather**

Automatic Digital Mullen-type solutions help QC and R&D teams verify material durability with repeatable results and a consistent testing workflow across operators. Select the right pressure range, clamping approach, and data handling for reliable reporting. Use the table below to compare the best option for your lab.

<b>Selection factor</b>	<b>Mullen-type Burst Tester - QualiMBT™ Automatic Model</b>	<b>Burst Strength Tester - QualiBurst™ D</b>
<b>Typical use</b>	Burst testing for paper, corrugated paper/board, leather, fabrics, flexible packaging, etc.	Burst testing for base paper, corrugating paper, leather, synthetic leather, etc.

<b>Selection factor</b>	<b>Mullen-type Burst Tester - QualiMBT™ Automatic Model</b>	<b>Burst Strength Tester - QualiBurst™ D</b>
<b>Standards listed</b>	ASTM D2210, ASTM D3786, ISO 2759, TAPPI T403/T807/T810, JIS L1018/L1096, JIS P8112	ASTM D2210, ASTM D3786, ISO 2759, TAPPI T403/T807/T810, JIS L1018/L1096, JIS P8112
<b>Model variants</b>	QualiMBT™-HP (High Pressure), QualiMBT™-LP (Low Pressure), QualiMBT™-T (Textile)	QualiBurst™ DHP (High Pressure), DLP (Low Pressure), DT (Textile)
<b>Clamping / safety approach</b>	Automatic clamping; dual-hand start buttons; transparent safety cover	7-inch touchscreen UI and digital panel operation
<b>Pressure capacity</b>	75 kg/cm <sup>2</sup>	75 kg/cm <sup>2</sup>
<b>Diaphragm pressure ranges</b>	Low: 0-10 kgf/cm <sup>2</sup> ; High: 6-75 kgf/cm <sup>2</sup>	Low: 0-10 kgf/cm <sup>2</sup> ; High: 6-75 kgf/cm <sup>2</sup>
<b>Pumping / test speed</b>	Machine speed: 20-200 ml/min (varies by model)	170±15 / 95±5 / 98±4 ml/min (varies by model)
<b>Display &amp; units</b>	Digital display; units: Bar, MPa, kPa, PSI, mmAq, mmHg, kgf/cm <sup>2</sup>	Digital touch panel; real-time graph display; metric & imperial units
<b>Compensation / calibration</b>	Compensation value available directly (reduces extra calculations)	Automatic compensation based on aluminum foil reference; sensor calibration
<b>Data handling</b>	Computer access + WiFi access via mobile phone	Stores up to 50 results; USB export; optional printer
<b>Clamp / platen diameter</b>	Upper/lower platen diameters differ by variant (varies by model)	Upper/lower platen diameters differ by variant (varies by model)
<b>Footprint / utilities</b>	43×57×68 cm; 85 kg; 110-240 VAC, 5A	53×33×58 cm; ~60 kg; 110-240 VAC, 5A

## FEATURES

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# Burst Strength Tester for Paper, Textiles and Leather - Automatic Digital Mullen-type Features



## Automatic operation

By utilizing automatic operation, the QualiBurst™ MP Burst Strength Tester minimizes human intervention significantly and speeds up tasks.



## Direct interface

The intuitive and easy to use interface allows operators to quickly learn how to operate the instrument.



## High-precision sensor

Precisely measures the bursting strength of materials through the high-precision pressure cell.



#### Test results display

Automatically displays the maximum force at the breaking point for bursting strength assessment.



#### High efficiency

Utilizing simplified and efficient operation procedures to reduce both operation time and effort.



#### Safety features

Equipped with an emergency stop to ensure safety during operation.

## TECHNICAL SPECIFICATIONS

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### Burst Strength Tester for Paper, Textiles and Leather - Automatic Digital Mullen-type Technical Specifications

<b>Model</b>	High pressure	Low pressure	
<b>Conformance</b>	GB/T 1539	ISO 2758, GB/T 454, TAPPI T403	ASTM D3786-2018, ASTM D3786M-18

<b>Detector</b>	Infrared sensor		
<b>Display</b>	LCD display		
<b>Sensor</b>	Pressure transducer		
<b>Capacity</b>	100 kgf/cm <sup>2</sup>	16 kg.f/cm <sup>2</sup>	
<b>Pumping rate</b>	170±15 mL/min	95±5 mL/min	
<b>Inner dia. of upper clamp</b>	31.5±0.1 mm	30.48 mm	31.5±0.1 mm
<b>Inner dia. of lower clamp</b>	31.5±0.1 mm	33.1±0.1 mm	31.5±0.1 mm
<b>Grip type</b>	Pneumatic grip		
<b>Pressure range</b>	Pressure gauge :0 to 50 kg/cm <sup>2</sup>		
	Compressed air ≥ 6 kg/cm <sup>2</sup>		
<b>Hydraulic oil</b>	ASTM D3786-2018: 96% glycerin, 4% distilled water; other standards: 85% glycerin, 15% distilled water		
<b>Dimensions (W×D×H)</b>	50×37×56cm		

<b>Weight (approx.)</b>	89.5 kg
<b>Voltage</b>	1?, AC 220V, 50/60Hz, 3A (110V Also Available upon Request)

Feel free to reach out if you need any further adjustments or additional information!



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## Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

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