Bursting Strength Tester

Bursting Strength is a reliable index of the strength and performance of materials like paper, paperboards, corrugated boards and boxes, solid fibreboards, filter cloth, industrial fabrics, leather, rexine, etc.

UBIQUE Bursting Strength Tester is ideal for testing a wide range of materials to determine their quality, strength and performance.

UBIQUE Bursting Strength Tester is easy to operate. It is scientifically calibrated for reliability. It is widely used by industries and institutions and stands out as a proven and reliable equipment.

A number of models are offered to suit different requirements of customers.

**1. Paper Tester:** Fitted with thin Rubber Diaphragm to accurately test materials having lower burst values like Paper (Range: 01 to 07/10/14 kg/cm²).

**2. Board Tester:** Fitted with Moulded Rubber Diaphragm to test material with higher burst values like Paperboard, Corrugated Board, Fabric Cloth, etc. (Range: 03-35/70 kg/cm²). Also offered with double pressure gauges (Range: 01 to 07 & 03 to 35/70 kg/cm²) but readings in the lower range are only indicative and not accurate.

**3. Two-in-One Paper & Board Tester:** Fitted with Thin as well as Moulded Rubber Diaphragms for testing materials with lower as well as higher burst values accurately (Range: 01 to 07/10 & 35/70 kg/cm²).

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**REGULAR MODEL**

**Single Pressure Gauge Model**

**Paper Tester**

*Product Code: UBS 7R or UBS 10R*

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**Features:**

- Basic model
- Simple to operate.

**DELUXE MODELS**

**I – Single Pressure Gauge Model**

**Board Tester**

*Product Code: UBS 35D or UBS 70D*

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**II – Dual Pressure Gauge Model**

**Board Tester**

Board Tester fitted with moulded rubber diaphragm. Readings in lower range are only indicative.

*Product Code: UBS 7-35D or UBS 10-35D or 10-70D or 35-70D*

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**Technical Specifications for I and II**

<table>
<thead>
<tr>
<th>Dimensions in mm L x W x H</th>
<th>620 x 380 x 440</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight in kgs</td>
<td>67</td>
</tr>
<tr>
<td>Power requirement Electric Motor</td>
<td>0.2 kW Single Phase 220 Volts</td>
</tr>
<tr>
<td>Least Count:</td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>Least Count</td>
</tr>
<tr>
<td>01–07 kg/cm²</td>
<td>0.1 kg/cm²</td>
</tr>
<tr>
<td>01–10 kg/cm²</td>
<td>0.2 kg/cm²</td>
</tr>
<tr>
<td>03–35 kg/cm²</td>
<td>0.5 kg/cm²</td>
</tr>
<tr>
<td>03–70 kg/cm²</td>
<td>2.0 kg/cm²</td>
</tr>
</tbody>
</table>

**Features:**

- Fully enclosed and compact.
- Panel-mounted pressure gauge/s – facilitates easier reading.
- Gauge is fully protected.
- Individual valve for each gauge in dual gauge model.
**DIGITAL MODELS**

**I – Digital Economy Model**

![Digital Economy Model](image)

Digital Bursting Strength Tester having pressure Transducer is always more accurate than Analogue one (with pressure gauge) because of its capability to pick up almost slightest variation in resistance offered by the specimen.

**Features:**
- Peak hold facility.
- Readings in kg/cm² also in PSI or Kpa.
- Manual Clamping.
- Least count of 0.1 kg/cm².
- Available in two types:
  - a) Paper Tester Capacity: 01 to 14 kg/cm² (UBS 14 AE).
  - b) Board Tester Capacity: 03 to 35 kg/cm² (UBS 35 AE).

**Technical Specifications for I**

<table>
<thead>
<tr>
<th>Dimensions in mm (L x W x H)</th>
<th>620 x 380 x 440</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight in kgs</td>
<td>67</td>
</tr>
<tr>
<td>Power requirement Electric Motor</td>
<td>0.2 kW Single Phase 220 Volts</td>
</tr>
<tr>
<td>Pressure Indicator Accuracy</td>
<td>1% of Full Capacity</td>
</tr>
</tbody>
</table>

**II – Fully Automatic Digital Model**

![Fully Automatic Digital Model](image)

**Features:**
- Single push-button operation.
- Pneumatic Clamping Pressure for ensuring uniform application of pre-determined clamping pressure, to eliminate variations in the readings due to variations in clamping pressure – when done manually. *(Compressed air to be provided by user.)*
- High Precision Digital Read-out.
- Readings are displayed digitally with least count of 0.1 kg/cm².
- Available in two ranges:
  - a) Board Tester with moulded rubber diaphragm. Range 03-40 kg/cm² (UBS 35A) or 03-70 kg/cm² (UBS 70A) **Readings in lower range are only indicative.**
  - b) Paper Tester with thinner rubber diaphragm Range 01-14 kg/cm² (UBS 14A).

**Technical Specifications for II and III**

<table>
<thead>
<tr>
<th>Dimensions in mm (L x W x H)</th>
<th>620 x 380 x 440</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight in kgs</td>
<td>67</td>
</tr>
<tr>
<td>Power requirement Electric Motor</td>
<td>0.2 kW Single Phase 220 Volts</td>
</tr>
<tr>
<td>Compressed air (to be provided by user) for auto clamping of sample</td>
<td>Min. capacity : 5 kg/cm² Min. Air flow : 5 C.F.M.</td>
</tr>
<tr>
<td>Pressure Indicator Accuracy</td>
<td>1% of Full Capacity</td>
</tr>
</tbody>
</table>

**III – Fully Automatic Micro Processor-based Digital Model**

![Fully Automatic Micro Processor-based Digital Model](image)

**Additional Features:**
- Incorporates Micro Processor-based Control Panel.
- Printer Port Facility.
- Results of the tests are stored for viewing or for taking printouts as required. *(80 col. Dotmatrix printer to be provided by the user.)*
- RS 232 Port facility, with necessary software, to transfer data to your computer. *(Computer to be provided by user.)*
- 16 x 2 Line 32 Character LCD Display.
- Alpha-Numeric Key-Pad.
- Other Features are as per Fully Automatic Digital Model.
TWO-IN-ONE MODELS (Paper and Board Testers)

For Accurate Testing of Paper (Material of Low Burst Value) as well as Paperboard and Corrugated Board (Material of High Burst Value)

I – Two-in-One Dual Pressure Gauge Model

Digital Equipment is always more accurate than the Analogue (with Pressure Gauge/s) because of its capability to pick up almost slightest variation in resistance offered by the specimen.

FEATURES:

- Two Diaphragm Seats – One to accommodate thin rubber diaphragm for testing material of low burst value and other to accommodate moulded rubber diaphragm for testing material of higher burst value for accurate readings.
- Selector switch to select either of the above testing.
- Two Dial Gauges
  - (A) 01 to 07 or 10 kg/cm\(^2\). Least Count: 0.1 kg/cm\(^2\).
  - (B) 03 to 35 or 70 kg/cm\(^2\). Least Count: 0.5 kg/cm\(^2\).

Product Code: UBS7-35DG or UBS7-70DG or UBS10-35DG or UBS10-70DG

II – Two-in-One Digital Economy Model

Digital Equipment is always more accurate than the Analogue (with Pressure Gauge/s) because of its capability to pick up almost slightest variation in resistance offered by the specimen.

FEATURES:

- Two Diaphragm Seats – One to accommodate thin rubber diaphragm for testing material of low burst value and other to accommodate moulded rubber diaphragm for testing material of higher burst value for accurate readings.
- Selector switch to select either of the above testing.
- Digital Indication of readings.
- Peak Hold facility.
- Readings in kg/cm\(^2\). Also in PSI or Kpa.
- Manual Clamping.
- Capacity: 01 to 40 or 70 kg/cm\(^2\).
- Least Count: 0.1 kg/cm\(^2\).

Product Code: UBS35DGAE or UBS70DGAE

Technical Specifications for I and II

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions in mm L x W x H</td>
<td>584 x 584 x 685</td>
</tr>
<tr>
<td>Weight in kgs</td>
<td>127</td>
</tr>
<tr>
<td>Power requirement Electric Motor</td>
<td>0.2 KW Single Phase 220 Volts</td>
</tr>
<tr>
<td>Pressure Indicator Accuracy</td>
<td>1% of Full Capacity</td>
</tr>
</tbody>
</table>
### Technical Specifications for III

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine dimensions in mm (L x W x H)</td>
<td>830 x 630 x 710</td>
</tr>
<tr>
<td>Weight in kg</td>
<td>140</td>
</tr>
<tr>
<td>Power requirement for motor</td>
<td>0.2 kW Single Phase 220 Volts</td>
</tr>
<tr>
<td>Compressed air (to be provided by user) for auto clamping of sample</td>
<td>Min. capacity : 5 kg/cm²</td>
</tr>
</tbody>
</table>

All digital models are also available with Integrated Computerised Touch Screen Control Panel

### Features

Same as Two-in-One Model (UBS 7-35DG or UBS 10-35DG).

### Additional Features

- Single push button operation.
- Pneumatic Clamping Pressure for ensuring uniform application of pre-determined clamping pressure, to eliminate variations in the readings due to variations in clamping pressure – when done manually.
  (Compressed air to be provided by user.)
- High precision digital read out with least count of 0.1 kg/cm².
- Incorporates micro processor-based control panel.
- Printer port facility to generate printed report.
  (80 col. Dotmatrix printer to be provided by the user.)
- Test results are stored for viewing or for taking printout with special software to give details as shown in the specimen of the printout generated.
- RS 232 Port facility, with necessary software, to transfer data to computer.

### Specimen of PRINTOUT generated by Micro Processor-based Digital Model

**UBIQUE COMBINATION BURST-O-MATIC TEST REPORT**

USER : ABC LTD.
SAMPLE TYPE : PAPER
HIGH LIMIT : 100 PSI  LOW LIMIT : 050 PSI  GSM : 242
PARTY : 111111111111111 COMPONENT 000331111111 LOT NO. 111110110111
REF A : 1008ED0GM0100 REF B 12210301239 REF C : 000000000111111

<table>
<thead>
<tr>
<th>SR. NO</th>
<th>DATE</th>
<th>TIME</th>
<th>BURST [PSI]</th>
<th>BURST FACTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>02/04/99 02:29 PM</td>
<td>087</td>
<td>25.2</td>
<td>OK</td>
</tr>
<tr>
<td>02</td>
<td>02/04/99 02:30 PM</td>
<td>007</td>
<td>1.6</td>
<td>LO</td>
</tr>
<tr>
<td>03</td>
<td>02/04/99 02:31 PM</td>
<td>065</td>
<td>18.5</td>
<td>OK</td>
</tr>
<tr>
<td>04</td>
<td>02/04/99 02:32 PM</td>
<td>032</td>
<td>9.0</td>
<td>LO</td>
</tr>
<tr>
<td>05</td>
<td>02/04/99 02:33 PM</td>
<td>076</td>
<td>21.9</td>
<td>OK</td>
</tr>
<tr>
<td>06</td>
<td>02/04/99 02:34 PM</td>
<td>081</td>
<td>23.5</td>
<td>OK</td>
</tr>
<tr>
<td>07</td>
<td>02/04/99 02:34 PM</td>
<td>093</td>
<td>26.8</td>
<td>OK</td>
</tr>
<tr>
<td>08</td>
<td>02/04/99 02:34 PM</td>
<td>088</td>
<td>25.2</td>
<td>OK</td>
</tr>
</tbody>
</table>

TOTAL SAMPLES : 08
ACCEPTED : 06 (75.5%)
REJECTED : 02 (25.0%)
REJECT (HI) : 00 (0.0% OF REJECTED SAMPLES)
REJECT (LO) : 02 (100.0% OF REJECTED SAMPLES)
MIN BURST VALUE OF ACCEPTED SAMPLES : 065 PSI
MAX BURST VALUE OF ACCEPTED SAMPLES : 088 PSI
AVERAGE BURST VALUE OF ACCEPTED SAMPLES : 081 PSI
AVERAGE BURST FACTOR OF ACCEPTED SAMPLES : 23.5

### All Models of Bursting Strength Tester are suitable for testing as per the following National and International Standards:

<table>
<thead>
<tr>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS</td>
<td>1060 (Part I) – 1996</td>
</tr>
<tr>
<td></td>
<td>1397 – 1967 (Kraft Paper)</td>
</tr>
<tr>
<td></td>
<td>13228 – 1991 (Corrugated Board)</td>
</tr>
<tr>
<td></td>
<td>1966 – 1975 (Fabric)</td>
</tr>
<tr>
<td></td>
<td>2771 (Part I) – 1977 (Corrugated Box)</td>
</tr>
<tr>
<td>FCBM</td>
<td>3:90 (Corrugated Fibreboard)</td>
</tr>
<tr>
<td>ASTM</td>
<td>D 774 / D774M-96a – Paper</td>
</tr>
<tr>
<td>FEFCO</td>
<td>TM 4 1997</td>
</tr>
<tr>
<td>TAPPI</td>
<td>T 403 om-91 (Paper)</td>
</tr>
<tr>
<td></td>
<td>T 810 om-92 (Corrugated &amp; Solid Fibreboard)</td>
</tr>
<tr>
<td></td>
<td>T 807 (Paperboard and Linerboard)</td>
</tr>
</tbody>
</table>
The “Touch Screen Range of Equipments” will enhance your testing practices and experience to a great level. Every feature will impact your operation in a big way.

Features

• **Easy to use Control Panel:**
  Provide a MMI (Man - Machine Interface) on a touch panel.

• **Graphic User Interface:**
  Helps you navigate through procedures and functions.

• **On-line Reporting:**
  Comparative reports in reference to previously conducted test can be generated on the machine itself to help immediate comparison and spot analysis.

• **Networking:**
  Easy network compatibility to help you remotely access, view and draw data over local network of your workplace.

• **Enhanced Storage:**
  Data can be stored for long duration and selective maintenance of data can be done for ease of reference in the future.

Advantages

• Flexibility to access different menu options with ease.

• Self-guided User Interface ensures maximum user-friendliness. All test parameters can be programmed referred, updated, edited and saved for future use.

• The on-line reporting facility allows to carry out comparative analysis of the different tests that have been conducted.

• Networking ability takes testing to the next level.

• Touch Screen range of equipments are able to communicate with each other through a centralized Lab Management Software.

• Enhanced storage facility allows building a vast data library of all tests carried out at various points.

All digital models of Bursting Strength Testers are also available with Integrated Computerised Touch Screen Control Panel.
THE WIDEST RANGE OF TESTING EQUIPMENTS FOR PAPER, PAPERBOARD AND PACKAGING

BURSTING STRENGTH TESTERS

- Regular Single Pressure Gauge Model
- Deluxe Single Pressure Gauge Model
- Deluxe Dual Pressure Gauge Model
- Digital Economy Model

- Fully Automatic Digital Model
- Fully Automatic Micro Processor-based Digital Model
- Two-in-One Dual Pressure Gauge Model
- Two-in-One Fully Automatic Micro Processor-based Digital Model
- Fully Automatic Model with Integrated Computerised Touch Screen Control Panel

BOX COMPRESSION STRENGTH TESTERS

- Digital Model
- Fully Automatic Model with Integrated Computerised Touch Screen Control Panel
- Digital Model
- Fully Automatic Model with Integrated Computerised Touch Screen Control Panel
- Digital Model

CRUSH TESTERS

- Digital Model
- Digital Model
- Digital Model

UNIVERSAL TESTING MACHINE

- Digital Model
- Digital Model
- Digital Model

VIBRATION TESTER

- Digital Model

TENSILE STRENGTH TESTER

- Digital Model
- Mechanical Model

PUNCHURE RESISTANCE TESTER

- Digital Model
- Mechanical Model

DROP TESTERS

- Mechanical Model
- Pneumatic Model

TEAR RESISTANCE TESTER

- Digital Model

CALIPER THICKNESS GAUGE

- Analog Model
- Digital Model

SUBSTANCE INDICATOR

- Mechanical Model
- Digital Model

COBB TESTER

- Digital Model

- Paper Tube and Cone Compression Strength Tester
- Moisture Tester
- Specimen Cutter for GSM, Ring Crush & Edge Crush Tests
- Specimen Maker (Fluter) for Concora Medium Test

All digital models are also available with Integrated Computerised Touch Screen Control Panel

Since we are continuously improving and upgrading the equipment, the design and specifications of all models featured here are subject to change without notice.

Marketed by: SAURASHTRA SYSTOPACK PVT. LTD.
Serviced by: SAURASHTRA MARKETING CORPORATION

102 & 104, Shilpin Centre, 40, G. D. Ambekar Road, Wadala, Mumbai - 400 031, India. • Phone: 91-22-6736 4343 • Fax: 91-22-6736 4300
E-mail: info@saurashtra.net • Website: www.saurashtra.net

Delhi: Unit No. 216, 2nd Floor, Aditya Complex, R.B.C., Nangal Raya, New Delhi - 110 046.
Phone: 91-11-2852 3658 • 93137 05605 • E-mail: delhi@saurashtra.net