

BURSTING STRENGTH TESTER



Marketed by:



**SAURASHTRA
SYSTOPACK PVT. LTD.**

Serviced by:



**SAURASHTRA MARKETING
CORPORATION**



Manufactured by: **UBIQUE, Pune**

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.

Bursting Strength Tester is available in three types

- 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).

REGULAR MODEL

Single Pressure Gauge Model



Technical Specifications for

Dimensions in mm L x W x H	820* x 380 x 440
Weight in kgs	60
Power requirement Electric Motor	0.2 kW Single Phase 220 Volts

* without gauge 640

Least Count:

Capacity	Least Count
01–07 kg/cm ²	0.1 kg/cm ²
01–10 kg/cm ²	0.2 kg/cm ²

Features: ● Basic model ● Simple to operate.

DELUXE MODELS

I – Single Pressure Gauge Model II – Dual Pressure Gauge Model



Technical Specifications for I and II

Dimensions in mm L x W x H	620 x 380 x 440
Weight in kgs	67
Power requirement Electric Motor	0.2 kW Single Phase 220 Volts

Least Count:

Capacity	Least Count
01–07 kg/cm ²	0.1 kg/cm ²
01–10 kg/cm ²	0.2 kg/cm ²
03–35 kg/cm ²	0.5 kg/cm ²
03–70 kg/cm ²	2.0 kg/cm ²

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

Paper Tester Board Tester
 Product Code: Product Code:
 UBS 14 AE UBS 35 AE



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

Dimensions in mm L x W x H	620 x 380 x 440
Weight in kgs	67
Power requirement Electric Motor	0.2 kW Single Phase 220 Volts
Pressure Indicator Accuracy	1% of Full Capacity

II – Fully Automatic Digital Model

Paper Tester Board Tester
 Product Code: Product Code:
 UBS 14 A UBS 35 A or UBS 70 A



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 14 A).

III – Fully Automatic Micro Processor-based Digital Model

Paper Tester Board Tester
 Product Code: Product Code:
 UBS 14 A-P UBS 35 A-P or
 UBS 70 A-P



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.

Specimen of PRINTOUT generated by Micro Processor-based Digital Model

UBIQUE BURST-O-MATIC TEST REPORT						
USER NAME	:	ACC LTD.				
SAMPLE CODE NO.	:	0001				
BURST TYPE	:	PAPER				
GSM	:	285				
ACCEPTANCE LIMIT	:	HIGH : 145 PSI	LOW : 135 PSI			
Sl. NO.	BURST VALUE PSI	BURST FACTOR	DATE	TIME	STATUS	
08	141	34.7	27/12/97	09:29:55 AM	Acc	
10	140	34.3	27/12/97	09:34:54 AM	Acc	
14	88	21.4	27/12/97	09:38:29 AM	Rej*	
15	46	11.2	27/12/97	09:40:22 AM	Rej*	
26	136	33.3	27/12/97	10:00:02 AM	Acc	
27	135	33.3	27/12/97	10:00:30 AM	Acc	
28	136	33.3	27/12/97	10:01:00 AM	Acc	
30	137	33.6	27/12/97	10:01:58 AM	Acc	
TOTAL RECORDS	:	08				
VALID RECORDS	:	06				
MIN VALUE OF VALID RECORDS	:	135 PSI				
MAX VALUE OF VALID RECORDS	:	144 PSI				
AVERAGE BURST VALUE OF VALID RECORDS	:	138 PSI				
AVERAGE BURST FACTOR OF VALID RECORDS	:	33.3				

Selection available for readings in either kg/cm² or psi.

Technical Specifications for II and III

Dimensions in mm (L x W x H)	620 x 570 x 580
Weight in kgs	85
Power requirement Electric Motor	0.2 kW Single Phase 220 Volts
Compressed air (to be provided by user) for auto clamping of sample	Min. capacity : 5 kg/cm ² Min. Air flow : 5 C.F.M.
Pressure Indicator Accuracy	1% of Full Capacity

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

Paper and Board Tester



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

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/cm². Least Count: 0.1 kg/cm².
(B) 03 to 35 or 70 kg/cm². Least Count: 0.5 kg/cm².

II – Two-in-One Digital Economy Model

Paper and Board Tester



Product Code: UBS35DGAE or UBS70DGAE

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/cm². Also in PSI or Kpa.
- Manual Clamping.
- Capacity : 01 to 40 or 70 kg/cm².
- Least Count : 0.1 kg/cm².

Technical Specifications for I and II

Dimensions in mm L x W x H	584 x 584 x 685
Weight in kgs	127
Power requirement Electric Motor	0.2 kW Single Phase 220 Volts
Pressure Indicator Accuracy	1% of Full Capacity

III – Two-in-One Fully Automatic Micro Processor-based Digital Model

Paper Tester and Board Tester



Product Code: UBS 35 DGA-P or UBS 70 DGA-P

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 : 110111111113		COMPONENT : 000311111101		LOT NO. : 111101101111			
REF A : 10KBD0M00100		REF B : 1221030IDA89		REF C : 000000011111			
SR. NO.	DATE	TIME	BURST [PSI]	BURST FACTOR	REJECT	ACCEPT	
01	02/04/99	02:29 PM	087	25.2			OK
02	02/04/99	02:30 PM	007	1.6	----	LO	
03	02/04/99	02:31 PM	065	18.5			OK
04	02/04/99	02:32 PM	032	9.0	----	LO	
05	02/04/99	02:32 PM	076	21.9			OK
06	02/04/99	02:33 PM	081	23.5			OK
07	02/04/99	02:34 PM	093	26.8			OK
08	02/04/99	02:34 PM	088	25.2			OK
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			

Technical Specifications for III

Machine dimensions in mm (L x W x H)	830 x 630 x 710
Weight in kg	140
Power requirement for motor	0.2 kW Single Phase 220 Volts
Compressed air (to be provided by user) for auto clamping of sample	Min. capacity : 5 kg/cm ²

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

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

IS	1060 (Part I) – 1996 1397 – 1967 (Kraft Paper) 13228 – 1991 (Corrugated Board) 1966 – 1975 (Fabric) 2771 (Part I) – 1977 (Corrugated Box)
FCBM	3:90 (Corrugated Fibreboard)
ASTM	D 774 / D774M-96a – Paper
FEFCO	TM 4 1997
TAPPI	T 403 om-91 (Paper) T 810 om-92 (Corrugated & Solid Fibreboard) T 807 (Paperboard and Linerboard)

Bursting Strength Tester

Fully Automatic Model with Integrated Computerised Touch Screen Control Panel

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

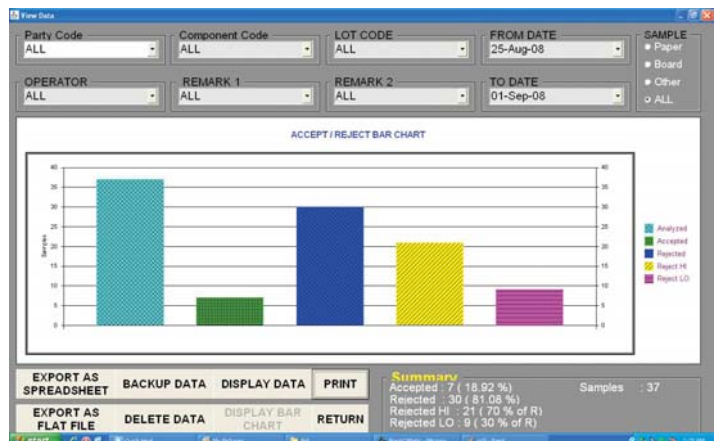
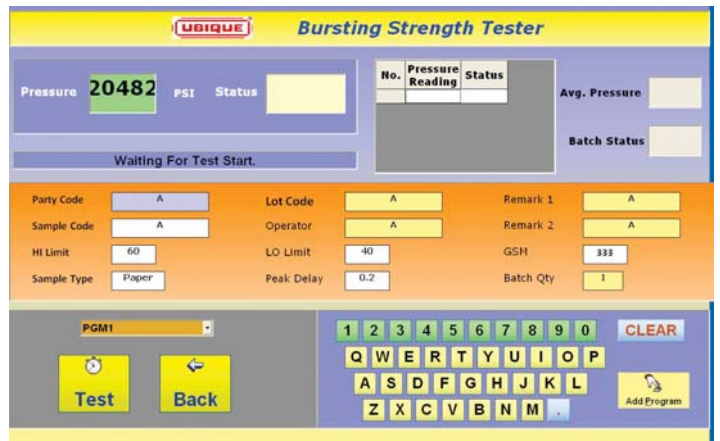
- Flexibility to access different menu options with ease.
- Self-guided User Interface ensures maximum user-friendliness. All test parameters can be programmed referred, updated, edited and saved for future use.
- The on-line reporting facility allows to carry out comparative analysis of the different 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.



Product Code: UBS-TS



Product Code: UBS 35 DGA-TS or UBS 70 DGA-TS



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 Digital Economy 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

CRUSH TESTERS



Digital Model



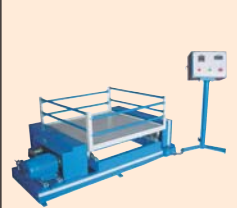
Fully Automatic Model with Integrated Computerised Touch Screen Control Panel

UNIVERSAL TESTING MACHINE



Digital Model

VIBRATION TESTER



TENSILE STRENGTH TESTER



Digital Model

PUNCTURE RESISTANCE TESTER



Mechanical Model

DROP TESTERS



Mechanical Model



Pneumatic Model

TEAR RESISTANCE TESTER



CALIPER THICKNESS GAUGE



Analog Model



Digital Model

SUBSTANCE INDICATOR



Mechanical Model



Digital Model

COBB TESTER



ALSO AVAILABLE

- Paper Tube and Cone Compression Strength Tester
- Moisture Tester
- Specimen Cutter for GSM, Ring Crush & Edge Crush Tests
- Specimen Maker (Flutter) 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
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Serviced by:



**SAURASHTRA MARKETING
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