



Bursting Strength Testers



Bursting Strength Testers

Bursting Strength is a widely used measure of resistance to rupture of various materials.

A test specimen is held between two circular clamps and subjected to an increasing pressure from a rubber diaphragm. The rubber diaphragm is expanded by a controlled hydraulic pressure until the test specimen ruptures. The Bursting Strength of the specimen is the pressure reading at the time of rupture.

Significance : (Why this test?)

The Bursting Strength Test of paper, paperboard, including liner board and corrugated board, is a composite measure of certain properties of the sheet structure, principally tensile strength and elongation. In general, bursting strength is dependent on the type, proportion, preparation and amount of the fibre present in the sheet and their formation, internal sizing, and to some degree, the surface treatment. While bursting strength is an empirical property, this test, in combination with basis weight, serves to define "standard grades" in commerce.

Recommended for : Paper, Paperboard, Corrugated board, Nonwovens, Textiles, Geotextiles, Film, Tissue, Tobacco Leaf.

Consumables : Rubber diaphragms, Anhydrous hydraulic fluid, Calibration foil.

Accessories : C spanner, 3 spare diaphragms, 250ml. topping up fluid.

Standard Compliance :

All Linux Bursting Strength Tester Models meet :
TAPPI : T-493, T-807, T-810, ASTM : D774, D2529, D738
AS/NZ : 1301, 403, 438, ISO : 2758, 2759, DIN : 53141
SCAN : P24, P25, FEFCO : Method No.4 (1966)
IS : 1060 (Part 1)-1966,1397-1967,13228-1991 FCBM : 3:90

All Models operate on Single phase, 230 V AC, 50 Hz power supply.

All Models can be supplied with non standard capacity of 0-14, 0-21, 0-52 & 0-70 kg/cm² on request
Linux offers a range of Bursting Strength Testers, each innovatively designed to meet specific requirements of testing

Analog Models

Common Features of Analog Models:

- Single push button cycle.
- Two units of measurement (Kg/cm² & PSI)
- Lazy Hand (maximum pointer) for maximum burst reading
- Heavy duty industrial SS Bourdon pressure gauges for greater durability.

Burst Factor (B. F.)

Burst factor is a parameter that relates Bursting Strength (B.S.) and Substance of paper (GSM).
 $B. F. = B. S. \times 1000 \div GSM$

Standard Model

Model: BST7/35STD (Board Tester)



Dimensions: (Depth X Width X Height)
(370 X 855 X 450 mm)

Features:

- Simple construction, open type, body mounted pressure gauges and panel mounted operating switches
- Switch from one gauge to another by opening and closing of SS Needle valves.

Two Models:

- 4/7 STD (Paper) with capacity 0-4 & 0-7 kg/cm²
- 7/35 STD (Board) with capacity 0-7 & 0-35 kg/cm²

Weight:

- Net Weight: 67 kgs
- Gross Weight: 100 kgs

Model: BST07STD (Paper Tester)



Dimensions: (Depth X Width X Height)
(370 X 655 X 450 mm)



Super Model

Model: BST7/35SU (Board Tester)

Features:

- Fully enclosed body, panel mounted gauges and operating switches
- Switch from one gauge to another by a simple switch
- Dual gauges for greater accuracy

Dimensions: (Depth X Width X Height)
(425 X 655 X 525 mm)

Weight: • Net Weight: 100 kgs
• Gross Weight: 130 kgs

Double head Model

Model: BST7/35DH (Paper & Board Tester)

Features:

- Fully enclosed body, panel mounted gauges and operating switches.
- Dual head for paper & board testing.
- Switch from one gauge to another by opening and closing of SS Needle valves.
- Capacity 0-7 kg/cm² for Paper with least count 0.1 kg/cm²
- Capacity 0-35 kg/cm² for Board with least count 0.5 kg/cm²
- Other capacity available on request

Dimensions: (Depth X Width X Height)
(470 X 670 X 575 mm)

Weight: • Net Weight: 112 kgs
• Gross Weight: 150 kgs



Single Head Digital Models

Common Features of Single Head Digital Models:

- Single head machine testing for Paper **OR** Corrugated Board
- **Paper Tester:** Fitted with thin Rubber Diaphragm to accurately test materials having lower burst values like Paper. Capacity: 14 kg/cm² with least Count 0.01 kg/cm².
- **Board Tester:** Fitted with Moulded Rubber Diaphragm to test material with higher burst values like Paperboard, Corrugated Board, Fabric Cloth, etc. Capacity: 35 kg/cm² with least Count 0.1 kg/cm².
- Measuring Units: kg/cm² or PSI. • Auto Calibration in 5 simple steps. • Overload protection.

Economy Digital Model

Model: **BSTEDBOA** or **BSTEDPAP**

Features:

- Single push button operation
- Manual clamping
- Direct Display of Readings Digitally
- Peak hold facility

Dimensions:

(Depth X Width X Height)
(450 X 655 X 525 mm)

Weight:

- Net Weight: 100 kgs
- Gross Weight: 130 kgs



Clamp N Print Model

Model: **BSTCNPBOA** or **BSTCNPPAP**

Features:

- Fully enclosed body, panel mounted micro processor based digital display
- Adjustable clamping pressure.
- System BF calculation for Paper.
- A group of 12 test can be performed for report.
- Accept or reject validation. • Manual clamping
- Average of test results on report.
- Programmable Product Codes, Vender / Customer Codes, GSM, Date & Time.
- Report is directly printed from the built-in Thermal printer.

Dimensions:

(Depth X Width X Height)
(450 X 655 X 615 mm)

Weight:

- Net Weight: 100 kgs
- Gross Weight: 130 kgs



Printed Test Report

Micro Digital Model

Model: **BSTMDBOA** or **BSTMDPAP**

Features:

- Single push button operation activates an automatic test cycle
- Adjustable clamping pressure
(Pneumatic air to be provided by user)
- Test result remains frozen till next operation

Dimensions:

(Depth X Width X Height)
(450 X 725 X 550 mm)

Weight:

- Net Weight: 100 kgs
- Gross Weight: 135 kgs



Micro Print Model

Model: **BSTMPOA** or **BSTMPPAP**

Features:

- Single push button operation activates an automatic test cycle
- Adjustable clamping pressure
(Pneumatic air to be provided by you)
- System BF calculation for Paper
- Programmable User Name, Product Name, Vender / Customer Name, Codes, Lot No., Date & Time etc.
- A group of 12 tests can be performed for report
- Report can be directly printed from the **dot matrix printer** connected to the machine **(the printer to be provided by user)**



Dimensions:

(Depth X Width X Height)
(450 X 725 X 550 mm)

Weight:

- Net Weight: 100 kgs
- Gross Weight: 135 kgs



Micro PC Model

Model: BSTMPCBOA or BSTMPCPAP

Features:

- The Micro PC Model is an extension of micro print model with PC connect ability and operations.
- RS 232 Port with Software, to transfer data to computer (Computer to with provided by user)
- The reports can be exported to PDF, MS Excel format.
- Windows based Software.
- You can recall any test done in history.
- Adjustable clamping pressure
(Pneumatic air to be provided by you)

Dimensions:

(Depth X Width X Height)
(450 X 725 X 550 mm)

Weight:

- Net Weight: 100 kgs
- Gross Weight: 135 kgs



MicroTouch Screen PC Model

Model: BSTMTPCBOA or BSTMTPCPAP

Features

- The machine is microprocessor capable of highly accurate precise load measurements and rapid data acquisition.
- Modern design concept of mechatronics, hydraulic system, multi-functional, beautiful appearance, convenient maintenance.
- Data management is easy. Users can create their own specific identification numbers and view data at any time. Stored data can be re-displayed or printed.
- Rugged Computer Hardware with Touchscreen Monitor.
- Programmable User Name, Product Name, Vender/Customer Name, Codes, Lot Number etc.
- LCD touch flat panel monitor for easy viewing.
- A group of 12 test can be performed for report.
- Accept or reject validation.
- Average of test results on report.
- Adjustable clamping pressure
(Pneumatic air to be provided by you)

Dimensions:

(Depth X Width X Height)
(540 X 775 X 600 mm)

Weight:

- Net Weight: 120 kgs
- Gross Weight: 160 kgs



Double Head Digital Models

Common Features of Double Head Digital Models:

- Double head machine testing for Paper and Corrugated Board
- **Paper head:** Fitted with thin Rubber Diaphragm to accurately test materials having lower burst values like Paper. Capacity: 14 kg/cm² with least Count 0.01 kg/cm².
- **Board head:** Fitted with Moulded Rubber Diaphragm to test material with higher burst values like Paperboard, Corrugated Board, Fabric Cloth, etc. Capacity: 35 kg/cm² with least Count 0.1 kg/cm².
- Measuring Units: kg/cm² or PSI. • Auto Calibration in 5 simple steps. • Overload protection.
- Switch from one head to another by opening and closing of SS Needle valves.

Economy Digital Model

Model: BSTDHED

Features:

- Dual head for paper & board testing.
- Single push button operation
- Manual clamping
- Direct Display of Readings Digitally
- Peak hold facility

Dimensions:

(Depth X Width X Height)
(495 X 670 X 575 mm)

Weight:

- Net Weight: 112 kgs
- Gross Weight: 150 kgs



Clamp N Print Model

Model: BSTDHCNP

Features:

- Fully enclosed body, panel mounted micro processor based digital display.
- Adjustable clamping pressure.
- System BF calculation for Paper.
- A group of 12 test can be performed for report.
- Accept or reject validation.
- Manual clamping
- LCD display
- Average of test results on report.
- Programmable Product Codes, Vender / Customer Codes, GSM, Date & Time.
- Report is directly printed from the built-in Thermal printer



Printed Test Report

Dimensions:

(Depth X Width X Height)
(535 X 770 X 675 mm)

Weight:

- Net Weight: 126 kgs
- Gross Weight: 170 kgs



Micro Digital Model

Model: BSTDHMD

Features:

- Single push button operation activates an automatic test cycle
- Adjustable clamping pressure
(Pneumatic air to be provided by user)
- Test result remains frozen till next operation

Dimensions:

(Depth X Width X Height)
(535 X 850 X 660 mm)

Weight:

- Net Weight: 126 kgs
- Gross Weight: 170 kgs



Micro Print Model

Model: BSTDHMP

Features:

- Single push button operation activates an automatic test cycle
- Adjustable clamping pressure
(Pneumatic air to be provided by you)
- System BF calculation for Paper
- Programmable User Name, Product Name, Vender / Customer Name, Codes, Lot No., Date & Time etc.
- A group of 12 tests can be performed for report
- Report can be directly printed from the **dot matrix printer** connected to the machine **(the printer to be provided by user)**



Dimensions:

(Depth X Width X Height)
(535 X 850 X 660 mm)

Weight:

- Net Weight: 126 kgs
- Gross Weight: 170 kgs



Micro PC Model

Model: BSTDHMPC

Features:

- The Micro PC Model is an extension of micro print model with PC connect ability and operations.
- RS 232 Port with Software, to transfer data to computer (Computer to with provided by user)
- The reports can be exported to PDF, MS Excel format.
- Windows based Software.
- You can recall any test done in history.
- Adjustable clamping pressure
(Pneumatic air to be provided by you)

Dimensions:

(Depth X Width X Height)
(535 X 850 X 660 mm)

Weight:

- Net Weight: 126 kgs
- Gross Weight: 170 kgs



Micro Touch Screen PC Model

Model: BSTDHMTPC

Features

- The machine is microprocessor capable of highly accurate precise load measurements and rapid data acquisition.
- Modern design concept of mechatronics, hydraulic system, multi-functional, beautiful appearance, convenient maintenance.
- Data management is easy. Users can create their own specific identification numbers and view data at any time. Stored data can be re-displayed or printed.
- Rugged Computer Hardware with Touchscreen Monitor.
- Programmable User Name, Product Name, Vender/Customer Name, Codes, Lot Number etc.
- LCD touch flat panel monitor for easy viewing.
- A group of 12 test can be performed for report.
- Accept or reject validation.
- Average of test results on report.
- Adjustable clamping pressure
(Pneumatic air to be provided by you)

Dimensions:

(Depth X Width X Height)
(540 X 1080 X 600 mm)

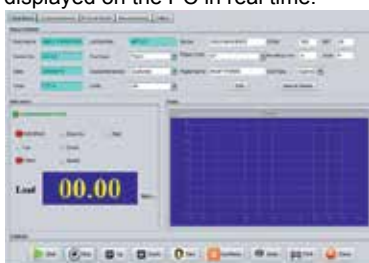
Weight:

- Net Weight: 177 kgs
- Gross Weight: 237 kgs



Software:

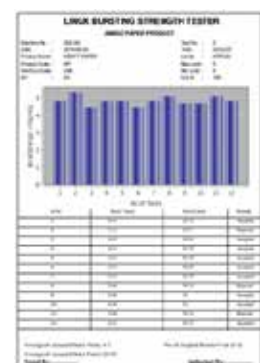
The software program for Bursting Strength Tester is auto installable. Once the Test Configuration menu has been programmed, Start button is pressed, initiating the test. The results of the test are displayed on the PC in real time.



Sample test configuration screen



Sample test screen



Printed sample test report

Manufacturing Unit at Mumbai



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