techlab systems

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BURSTING STRENGTH TESTER BT-10 model

For Determining the Bursting Strength Value of Paper and Corrugated Board

Applicable standards: ISO 2758 / 2759 - SCAN P25/P24 - TAPPI T403 / T807 / 810 - PAPTAC D19P/D8 - BS 3137 - DIN 53141 - AP/AS 1301,403 - ASTM D774

technology, capability and ease of use, together...

LYNX SYSTEM
Techlab Systems

"Data in Real Time..."

"Mullen" Index (kN/g, kPa.m²/g)
Burst Resistance
(kPa, PSI, Bar, Kg/cm²)

NOW with 15" laptop PC + LYNX Burst Testing Software included.
Using a laptop PC and **LYNX** Software w/ **BursTest Pack (Mullen index and B.E.A.)**, it is now possible to quickly and reliably capture your test results, with automatic statistical analysis. This eliminates the need for the lengthy process of capturing burst test data by hand and manually entering into a computer.

- MBC-3200 Multifunction board, of data acquisition, machine control and connection to PC, remote access by internet..., which allows more: accuracy - repeatability – durability – flexibility - easy of setup
- 15" laptop PC interface - for Data Acquisition and Control
- **LYNX** Burst Test Programme
- Statistics: Min/Max, Average and Standard Deviation
- Save – Print – Copy to Office Clipboard...
- Direct Reading in kPa – Kg/cm² – Bar & PSI
- USB interface f/connection to a PC
- Improve Your Quality System to ISO 9000
- Eliminates Human Error
- Languages: (English – Spanish – German and French)
- Measurement ranges: (f/ PAPER: from 0 to 1500 kPa & f/BOARD: from 200 to 5.000 kPa)
- Security System of operation included
- Pneumatic Clamping System
- Constant Pressure Clamping
- Acrylic protection screen (for test area)
- (*) It is posible to integrate in:
  - **LYNX** Management Module with basic statistics (one-to-one connection))
  - Advanced Management Laboratory Software **LYNX** Plus & Pro (f/multiple test equipment connection)

TEST DESCRIPTION

Tests are made by means of applying hydraulic pressure (glycerine hydraulic liquid) to the sample by a natural rubber membrane. The maximum pressure reached at the breaking moment of the sample is displayed in the Ultralight PC color monitor (digital and Graphic mode).

After placing the sample in its test position, press the test button in the LYNX software. The acrylic protection screen will go down followed by the pneumatic clamping device to support the sample.. The hydraulic pressure will begin to apply underneath the sample automatically. When the sample breaks, the hydraulic cylinder will automatically stop and reverse the movement, until it arrives to its initial test position. The pressure at which the sample breaks will be captured by the LYNX software.

The protection screen and the sample support will be automatically open, leaving the equipment ready for next sample test.

The new model performs burst tests in both **PAPER**, as well as **CORRUGATED BOARD**. The rubber membrane is put in place and the pumping speed specified by the according standard is automatically selected on the front panel.

* **CORRUGATED BOARD** = 170 +/- 15 ml / min
* **PAPER** = 95 +/- 5 ml / min

SPECIFICATIONS

- Measure range from:
  - **Paper**: from 0 to 1500 kPa
  - **Board**: from 200 to 5.000 kPa
- Accuracy: +/- 1 % of reading between 2 % and 100 % of full scale
- Selecting the breaking detection level between 10% and 90% of maximum value
- Reading in a monitor of 8,9 ":
  - **kPa** resolution to 0.2 kPa
  - **Bars** resolution to 0.002 Bar
  - **Kg/cm²** resolution to 0.002 Kg / cm^2
  - **PSI** resolution to 0.03 PSI
- Statistics: minimum & maximum values, average and standard deviation
- Automatic test cycle with breaking detection and auto-return to initial test position
- Maximum value memory
- Manual and automatic reset
- Select flow of pumping speed by keyboard: 170 ml / min. (corrugated board) and 95 +/- 5 ml / min. (paper)
- With data output by USB
- Maximum thickness of sample: 12 mm
- Sample clamping strength of 7000 N max., adjustable by pneumatic regulator
- Methacrylate protection screen (tests area)
- Emergency switch
- Glycerine deposit store of 200 cc capacity, facilitating a easy drain of the air out of the system
- Air consumption: 0,6 l/test

NOTE: Upon ordering, indicate the burst tester model : Paper or Corrugated Board

CONNECTIONS:

Electrical: 230 V, 50/60 Hz

Compressed Air: 600 kPa

DIMENSIONS AND WEIGHT:

Dimensions: 400 x 550 x 550 mm (W x D x H)

Box for transport: 500 x 650 x 650 mm (W x D x H)

Weight Net/Gross: 65 Kg /110 Kg

DELIVERY CONTENT:

> Burst Strength Tester BT-10 model

> 15" laptop PC with Windows OS

> **LYNX** Burst Testing Software (in Pen Drive)

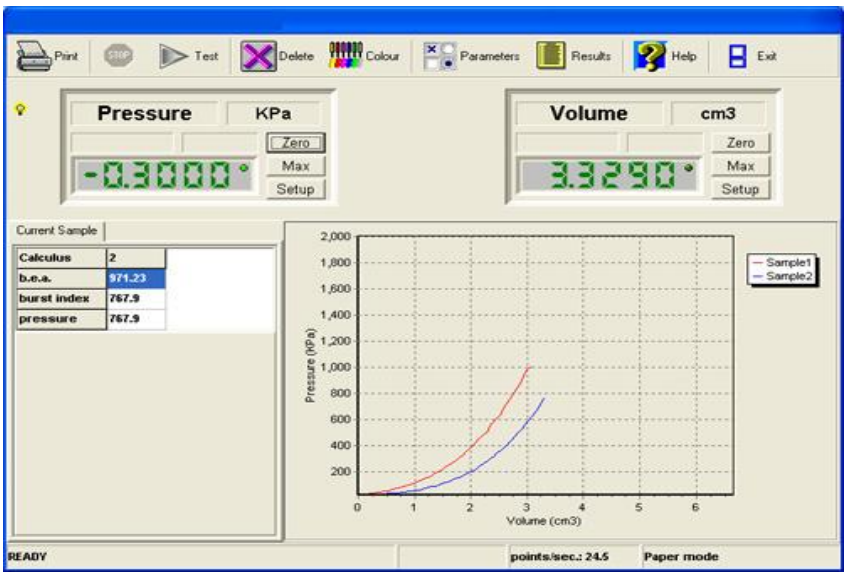
> 1 set of grips to test paper or Corrugated board with 1membrane

> 1 set of keys to perform membrane changes.

> 500 ml glycerine

* TECHLAB SYSTEMS reserves the right to do any technical modification without advance notice

LYNX Test Programme for BURST RESISTANCE with "Mullen" index calculations - B.E.A. (Burst Energy Absorption) and Pressure.



"Mullen" Index (kN/g, kPa.m²/g)
Burst Resistance (kPa, PSI, Bar Kg/cm²)
B.E.A. (J/m²)

"Data in Real Time..."

It can work independenly or Integrated in **LYNX** Management Module (one-to-one connection) or in the **LYNX** Integral Management System Plus or Pro (Multiple test equipment connection in LAN) with other parameters generated in the Testing Laboratory

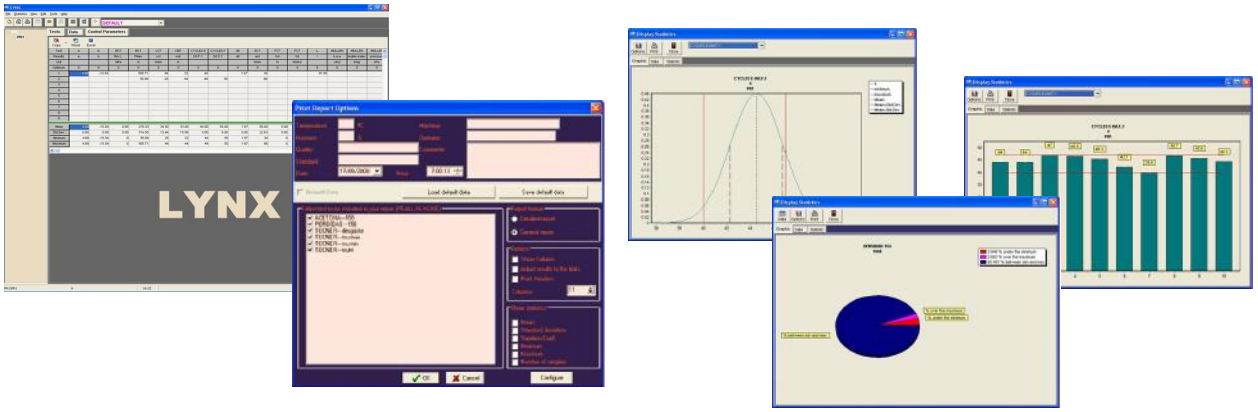
- Quickness in carrying out tests and in obtaining results.
- No human mistakes.
- Traceability according to ISO 9000

Through this Test Software and using a Burst Tester with its correspondent clamps for Paper and/or Corrugated Board, Burst tests can be carried out with "Mullen" Index calculation and B.E.A. (Burst Energy Absorption) and Pressure. the data are displayed numerically and graphically on the PC monitor

- **It marks Maximum – Minimum – Medium Value and Standard Deflection**
- **Up to 100 Tests or Measurement Capacity for each report**
- **SAVE – PRINT and COPY to OFFICE CLIPBOARD FUNCTIONS**

OPTIONAL : Code T-6879 - LYNX MANAGEMENT MODULE with Basic Statistics

If you need to manage the data generated, we recommend the purchase of this module which allows further choice of language, reporting, to have a library of units, levels of password, introduction of minimum values, maximum and optimal to exploit data with statistics, charts bars, Bells of GAUSS, Comparison tolerances ..., export data to Word - Excel ..., PDF generation ...



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