

TISSUE BURST TESTER

Thwing-Albert developed the original burst tester over 25 years ago for several worldwide tissue paper producers. Active in the development of new test methods for standardized testing, Thwing-Albert also developed the new tissue ball burst method. The tissue burst tester is a precision, PC-controlled instrument that measures the wet and dry burst strength properties of tissue papers and tissue products, paper towels, non-wovens and other substrates.

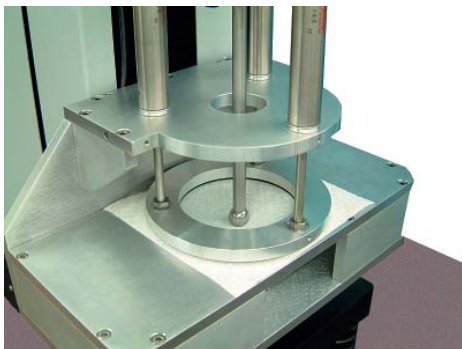
Dry burst strength is useful to determine strength required to avoid breaks or tears during manufacturing or converting.

Wet burst strength is a critical property as most tissue products are subject to aqueous fluid during normal use.

Utilizing simplicity materials testing software, test parameters are easily set-up. Test results can be printed and stored on a PC. Standard results provided include burst strength, burst displacement, burst energy, total burst energy, burst index and statistics.

User-friendly design

- Pneumatic clamp allows safe and quick test set-up while eliminating possible sample slippage & operator fatigue.
- An opening of 50 mm provides ample space for loading samples on the test platform.
- An optional foot switch provides handsfree operation.



Ball burst probe simulates product usage applications.



Maximizing efficient use of lab space, the burst tester is designed with a very small footprint.

Features

- Burst test software included
- Operating system 98 / 2000 / NT / XP
- One serial interface to a PC
- No PC interface cards
- Serial load cell interface
- Pneumatic clamp provides secure hold
- Automatic electronic calibration
- Movable test control panel
- Side electronics panel for easy serviceability
- Push-button auto zero

Non-wovens, Paper, ...

Physical specifications

Dimensions

25.5 x 42 x 80 cm (WxDxH)

Net Weight

51 kg

Crosshead travel

58.5 cm

Clamping fixture

Internal diameter 89 ± 0.03 mm (other sizes available)

Probe

Diameter 16 mm (other sizes available)

Operating / storage environment

Air temperature: operating 10 to 50 °C

storage -25 to 70 °C

Relative humidity: operating 10 to 85 %

(non-condensing)

storage 5 to 90 %

(non-condensing)

Standards

ASTM D 6548-00, TAPPI T570-00

Performance data

Crosshead guidance

Precision ball screw

Clearance

Horizontal unlimited

Depth 89 mm

Force measurement

High precision 20 N or 50 N

Force accuracy

10 to 100 % load capacity: ± 0.25 % measuring value

less than 10 % load capacity: ± 0.025 % of load cell

capacity

Force resolution

16 Bit A/D to 0.1 N

Position resolution

0.6 µm

Position accuracy

± 2.5 µm / 25 mm or 0.01 % of distance

System control

PC-based with serial interface (PC not included)

Operating system

Windows® 98/NT/2000/XP

Speed

Crosshead 1 to 1000 mm / min

Accuracy ± 0.1 %

Safety features

Emergency stop button, upper & lower limit switches

with over-travel protection and load cell overload

protection

Power requirements

220 / 230 V, 50 Hz

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