



Measure

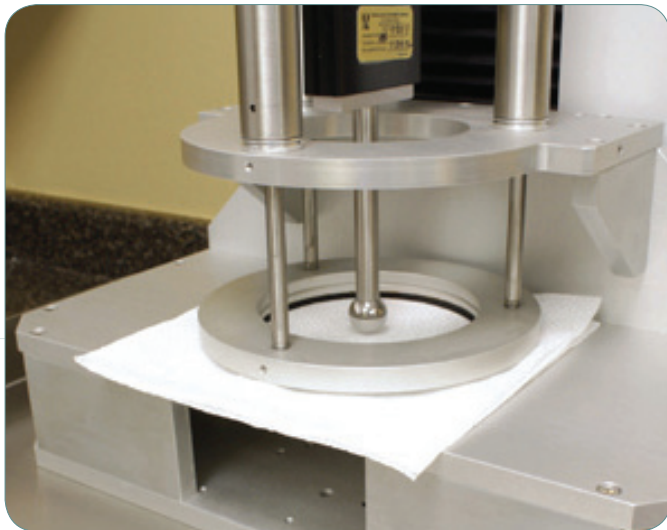


Improve



Service

## TISSUE BURST TESTER



▲ 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

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.

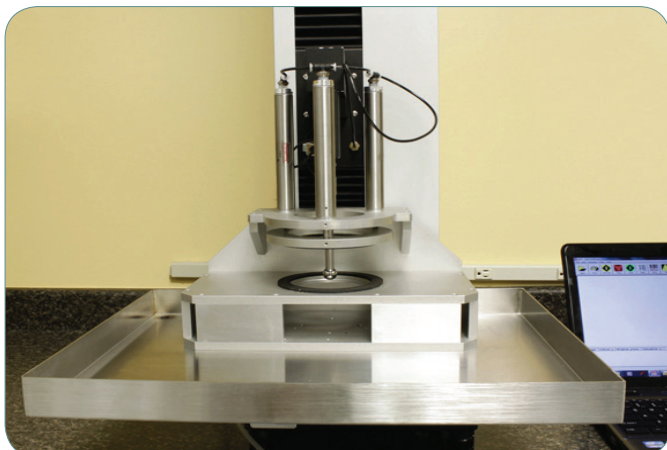
Wet burst strength is a critical property as most tissue products are subject to aqueous fluid during normal use.

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 handfree operation.



◀ Wet Strength Test Fixture enables the evaluation of materials under wet conditions.

## Technical specifications

- Crosshead guidance  
Precision ball screw
- Clearance  
Horizontal: unlimited
- Depth Clearance  
Depth: 89 mm
- Force measurement  
High precision 20 N or 50 N
- Force accuracy  
10 to 100 % load capacity:  $\pm 0.25$  % measuring value.  
Less than 10 % load capacity:  $\pm 0.025$  % of load cell capacity
- Force resolution  
16 Bit A/D to 0.1 N
- Position resolution  
0.6  $\mu\text{m}$
- Position accuracy  
 $\pm 2.5$   $\mu\text{m}$  / 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:  $\pm 0.1$  %
- Safety features  
Emergency stop button, upper & lower limit switches with over-travel protection and load cell overload protection
- Power requirements  
110 V AC, 50/60 Hz  
220 / 230 V AC, 50 Hz  
240 V AC, 50 Hz

## Standards

ASTM D 6548-00, TAPPI T570-00

## Physical specifications

- Dimensions  
254 x 419 x 800 mm (W x D x H)
- Net Weight  
51 kg
- Crosshead travel  
58.4 cm
- 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)

- Clamping fixture  
Internal diameter  $89 \pm 0.03\text{mm}$   
(other sizes available)  
Outside diameter 165mm  
(other sizes available)
- **Probe**  
Diameter 16 mm  
(other sizes available)

