

# Tissue Burst

## Vantage<sup>NX</sup> Tensile Tester

Thwing-Albert was instrumental in developing the Tissue Ball Burst method as a solution for several worldwide tissue paper producers. 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, nonwovens and other substrates.

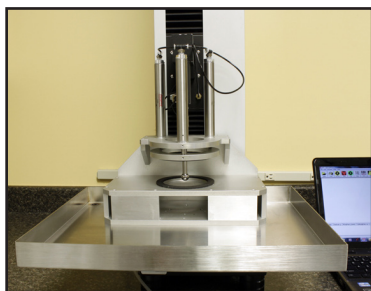
**Dry Burst Strength** is useful to determine strength required to avoid breaks or tears during manufacturing or converting.

**Wet Burst Strength** is a critical property as tissue and paper towel products are subject to aqueous fluid during normal use.

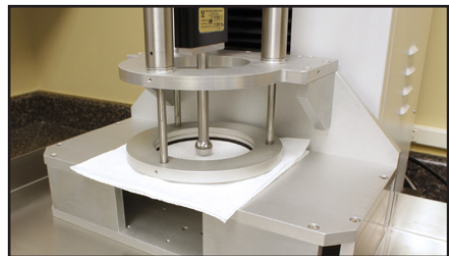
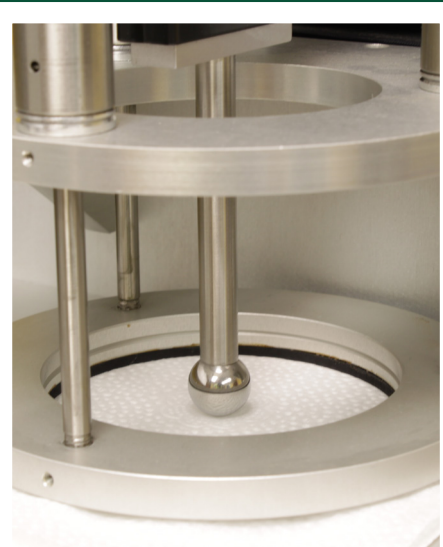
Utilizing MAP4 Materials Testing Software, test parameters are easily set-up. Test results can be printed and stored on a PC. Standard results provided include Burst Strength, Burst Displacement, Burst Energy, Total Burst Energy and statistics.

### User-friendly Design

- Pneumatic Clamp allows safe and quick test set-up while eliminating possible sample slippage & operator fatigue.
- An opening of 2 inches (50.8 mm) provides ample space for loading samples on the test platform.
- An optional foot switch provides hands-free operation.



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



### FEATURES

- Windows Compatible
- One USB Interface to a PC
- Serial Load Cell Interface
- Pneumatic Clamp Provides Secure Hold
- Semi-Automatic Electronic Calibration
- Movable Test Control Panel
- Push-Button Auto Zero
- Standards:  
ASTM D6548-00, TAPPI T570-00,  
ISO 12625-9:2004, ISO 12625-11,  
CEN 1265-9



**Thwing-Albert**  
Instrument Company



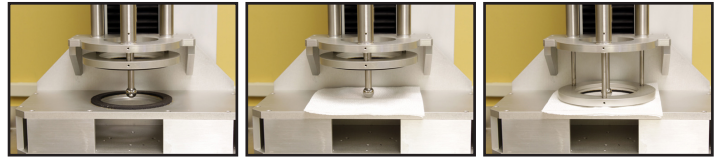
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## PHYSICAL SPECIFICATIONS

	1900-2004
<b>Width</b>	254 mm (10 in)
<b>Depth</b>	419 mm (16.5 in)
<b>Height</b>	800 mm (31.5 in)
<b>Net Weight</b>	51 kg (112 lb)
<b>Crosshead Travel</b>	584 mm (23 in)

\*Above Dimensions do not include PC.



### Clamping Fixture:

Internal Diameter (*other sizes available*)  
3.50 ± 0.01 in (88.9 ± 0.03 mm)

Outside Diameter (*other sizes available*)  
6.50 in (165 mm)

**Probe:** Diameter (*other sizes available*)  
0.625 in (15.9 mm)

## PERFORMANCE DATA

### Crosshead Guidance

Precision Ball Screw

### Horizontal Clearance

Unlimited

### Depth Clearance

89 mm (3.5 in)

### Force Measurement

High precision 25 N or 50 N Load Cell

### 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 (0.00002 inch)

### Position Accuracy

±2.5 µm/25 mm (±0.0001 inch/1.0 inch)  
or 0.01% of Distance

### System Control

PC-Based with USB interface

### Operating System

Windows® Compatible

### Crosshead Speed

1 to 1000 mm/min (0.05 to 40 in/min)

### Speed Accuracy

±0.1%

### Safety Features

Emergency stop button, upper & lower limit switches with over-travel protection and load cell overload protection

### Power Requirements

110 VAC, 50/60 Hz

220/230 VAC 50 Hz

240 VAC, 50 Hz

### Operating/Storage Environment

Air Temperature:

Operating: 10° to 50° C (50° to 122° F)

Storage: -25° to 70° C (-13° to 158° F)

Relative Humidity:

Operating: 10% to 85% (Non-Condensing)

Storage: 5% to 90% (Non-Condensing)

*Specifications subject to change without notice.*

