



**Thwing-Albert
Instrument Company**

More Than a Century of Testing Solutions

BT-21 Burst Strength Tester

The BT-21 determines the bursting strength for the quality control (QC) and research and development (R&D) of paper, board and corrugated board. The new and modern design is ideal for the use of light and resistant materials, it also offers user friendly and secure operation.

The BT-21 features steel frame body, strain gauge pressure transducer, pneumatic clamping system for the sample, built-in hydraulic system for the diaphragm, quick connector for calibration, built-in electronics and exclusive testing software.

The built-in software offers options for a complete or basic test. The complete test presents options to statistical calculation, calculation of bursting strength, bursting index and absolute bursting strength. During the test the wide LCD display shows a graphic of the evolution of the test and after its conclusion indicates automatically the maximum strength of the tested material.

The BT-21 also provides memory storage of results, search function by date, operator or material and a thermal printer built-in to the equipment enables printing of reports and graphs.



Features:

- Selectable units
- Strain gauge pressure transducer
- Compact countertop footprint
- Steel frame
- Operator friendly keypad
- Built-in hydraulic system for the diaphragm
- Quick connector for calibration
- Optional shields with integrated safety switch
- Industry Standards:
 - BT-21P = ISO 2758, TAPPI T-403
 - BT-21C = ISO 2759, TAPPI T-807, TAPPI T-810



Two Burst Test Models:

BT-21P (from 70 to 1300 kPa)

This tester is ideal for testing paper and lightweight material.

BT-21C (from 350 to 5500 kPa)

This tester is ideal for testing paperboard, corrugated board, and heavy-weight materials.

Physical Specifications

Dimensions: 230 x 600 x 470 mm

Weight: 30 kg



Performance Data

Measuring Range

BT-21P - 70 to 1300 kPa

BT-21C - 350 to 5500 kPa

Resolution

0.01 kPa

Clamping Pressure

BT-21P - 430 kPa

BT-21C - 690 kPa

Hydraulic system rate of flow

BT-21P - 95 \pm 5 mL/min

BT-21C - 170 \pm 15 mL/min

Elasticity of the Diaphragm

BT-21P - 30 \pm 10 kPa/9mm

BT-21C - 195 \pm 25 kPa/10mm

Lower Clamp Opening

BT-21P - 33.10 \pm 0.05 mm (1.3 in \pm .002 in)

BT-21C - 31.50 \pm 0.05 mm (1.24 in \pm .002 in)

Upper Clamp Opening

BT-21P - 30.50 \pm 0.05 mm (1.2 in \pm .002 in)

BT-21C - 31.50 \pm 0.05 mm (1.24 in \pm .002 in)

Rupture level (programmable)

BT-21P - 20-100%

BT-21C - 20-100%

Electrical

220 VCA, 50/60 Hz, single phase, 200 W

Air Supply

6 bar, instrument quality, 0.1 m³/h

Specifications subject to change without notice.

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