

Crush Tester

CT-21

The CT-21 Crush Tester is designed to perform standard TAPPI fiberboard tests such as Flat Crush, Edge Crush, Ring Crush and Pin Adhesion. It determines the compression strength of corrugated fiberboard and its components for Quality Control and R&D.

This instrument is user-friendly and its software controls all testing functions. It provides complete statistics, a parallel port for printing test data and reports and a RS-232 serial port to interface with a computer.

The CT-21 features a lightweight body with high precision load cell, sturdy steel nickel-plated testing plates, heavy duty step motor, accurate ball screws, LDC display, touch membrane keyboard, built-in electronics and the exclusive testing software that eliminates the need for a personal computer to operate it.



SPECIFICATIONS

- **Capacity:** 4000 N
- **Resolution:** 0.1 N
- **Selectable Testing Units:** N, kgf or lbf
- **Rupture level (programmable):** 40 to 100%
- **Testing speed (programmable):** 10 to 40mm/min
- **Return speed of plate:** 250 mm/min
- **Stroke length (programmable):** 5 to 80 mm
- **Power Supply:** 220 VAC 50/60 Hz single phase
- **Power Consumption:** 200 W
- **Dimensions:** 230 x 460 x 645 mm
- **Weight:** 50 kg

FEATURES

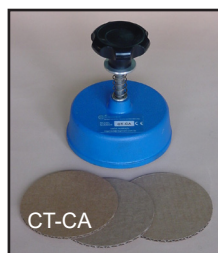
- Built-in electronics
- Exclusive testing software
- Emergency stop switch
- HBM high precision load cell

STANDARDS

- TAPPI T809, T811, T821, T822, T824, T825, T839, T843
- ISO 3035, ISO 3037, ISO 7263, ISO 12192, ISO 13821



To enhance the testing flexibility of the CT-21 Crush Tester, several accessories are available.



Circular Cutter (CT-CA)

Model CT-CA prepares disks of 100 cm² and 10 inch² for the determination of the flat crush resistance of corrugated fiberboard used in packaging cases (Flat Crush Test - FCT)

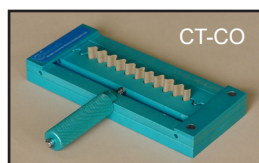
Applicable Standards: ISO 3035, TAPPI T825



Ring Crush Test Device (CT-RA)

Model CT-RA is used for the determination of the liner compression resistance (Ring Crush Test - RCT)

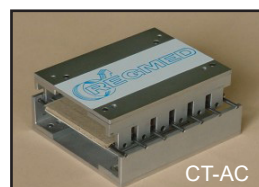
Applicable Standard: TAPPI T822



Corrugated Fluted Test Device (CT-CO)

Model CT-CO is used for the determination of the contribution of the flutter in the column resistance (Corrugated Fluted Crush Test Cross Direction-CFC-O)

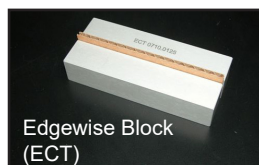
Applicable Standard: TAPPI T824



Pin Adhesion Test Device (CT-AC)

Model CT-AC is used for the determination of the adhesion resistance between liner and flutter (Pin Adhesion Test - PAT)

Applicable Standard: TAPPI T821



Edgewise Blocks (ECT)

The Edgewise Block holds the sample in a vertical position and is placed on the compression tester as the edge is compressed for the Edge Crush Test.

Applicable Standard: ECT Standard is ISO 3037



Short Column Test (SCT)

Used for determining the edgewise compressive strength, perpendicular to the axis of the flutes, of a short column - single, double, triple-wall corrugated.

Applicable Standard: SCT Standard is TAPPI T811



Short Compression Test (SCT)

Edge Compression Test for Strength of Corrugated Fiberboard using the Clamp Method used for the determination of the column resistance.

Applicable Standard: SCT Standard is TAPPI T839



Thwing-Albert
Instrument Company

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