

## CRUSH TESTER

### model CT-21



The CT-21 determines the compression strength of corrugated fiberboard and its components for Q.C (quality control) and R&D (research and development).

The new and modern design, associated to the use of light and resistant materials, offers a friendly and secure operation to the user.

The exclusive interactive and intuitive software offers options to complete or basic test. The software enables 10 specific programs for the compression tests indicated in table below with option for statistical and respective resistances calculation, according to the applicable technical standards.

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.

Also available Rs232 serial port for interface with PC, thermal printer, memory for automatic storage of the last 500 results and search function by date, operator or material.

#### MAJOR TECHNICAL CHARACTERISTICS

Capacity	4000 N
Resolution	0,1 N
Selectable testing units	N, kgf or lbf
Testing speed (programmable)	10 - 40 mm/min
Return speed of plates	250 mm/min
Stroke length (programmable)	5 - 80 mm
Rupture level (programmable)	40 - 100%

The CT-21 features 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.

TEST	ACESSORY REQUIRED	TECHNICAL STANDARD
Flat Crush Test (FCT)	Circular Cutter - CT-CA	ISO 3035/TAPPI T-825
Ring Crush Test (RCT)	Ring Crush Holder - CT-RA	ISO 12192/TAPPI T-822
Corrugated Crush Test (CCT)	Corrugated Crush Test Device - CT-CO	TAPPI T-843/ISO 16945
Concora Medium Test (CMT)	Laboratory Fluter - LF-21	ISO 7263/TAPPI T-809
Pin Adhesion Test (PAT)	Pin Adhesion Test Device - CT-AC	TAPPI T-821
Edge Crush Test ISO (ECT)	Edgewise Blocks ISO - ECT	ISO 3037
Short Column Test TAPPI (SCT)	Edgewise Blocks TAPPI - SCT	ISO 13821/TAPPI T-811
Short Column Test TAPPI (SCT 839)	Clamp Fixture TAPPI - SCT T-839	TAPPI T-839

Some tests also require the use of specific sample cutters used to prepare test pieces according to the requirements of Technical Standards.

**Applicable Standards:** ISO 13820

Power Supply	220 VCA, 50/60 Hz, single phase, 200 W
Dimensions	(232 x 457 x 656) mm (W x L x H)
Weight	52 kg

Note: due to constant development our equipment design and specifications are subject to change without notice.

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## ACESSORIES FOR CRUSH TESTER

The realization of standard tests for corrugated in the Crush Tester requires the use of standard testing fixtures.

Circular Cutter model CT-CA prepares disks of 100 cm<sup>2</sup> and 10 in<sup>2</sup> for the determination of the flat crush resistance of corrugated fiberboard used in packaging cases - FCT - Flat Crush Test.

Column Fixtures models SCT-T-839, SCT and ECT are used for the determination of the column resistance - SCT - Short Column Test - and ECT - Edgewise Crush Test respectively.

Pin Adhesion Test fixture model CT-AC is used for the determination of the adhesion resistance between liner and flutter - PAT - Pin Adhesion Test.

Corrugated Fluted Test fixture model CT-CO is used for the determination of the contribution of the flutter in the column resistance - CCT - Corrugated Crush Test Cross Direction.

Ring Crush Test fixture model CT-RA is used for the determination of the liner compression resistance - RCT - Ring Crush Test.



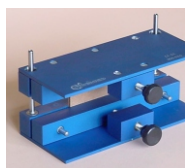
CT-RA



SCT-T-839



CT-CA



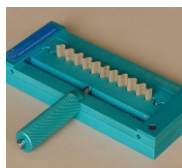
CT-CC



SCT



CT-AC



CT-CO

### APPLICABLE STANDARDS :

CT-CA - Circular cutter (FCT)	ISO 3035	TAPPI T-825
CT-RA - Ring crush test (RCT)	ISO 12192, TAPPI T-822	
CT-CO - Corrugated crush test (CCT)	TAPPI T-824, TAPPI T-843	
CT-AC - Pin adhesion test (PAT)	TAPPI T-821	
ECT - Edgewise crush test	ISO 3037	
SCT - Short column test	ISO 13821, TAPPI T-811	
SCT - SCT clamp method	TAPPI T-839	

*The standard fixtures shown here, except for the CT-CA, are designed to just keep the test pieces in the correct testing position throughout the test. The preparation of the standard test pieces demand the use of additional equipment like the GP-21 precision sample cutter, the CAP-21 pneumatic sample cutter and the LF-21 Concora laboratory fluter.*

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