BOX COMPRESSION TESTER (BCT)

Code: PTA-0501XX

Standards: TAPPI T 804, ISO 12048, DIN EN 22872, UNE 57163-5, FEFCO Nº50, AFNOR H13-001

Conduct compression tests on corrugated boxes and other types of packaging. Can be configured with either a fixed or an oscillating upper plate. This specialized instrument is designed to measure the packaging with the product inside. Optional computer software is available to make compression, stacking, and cyclic tests.

FEATURES:

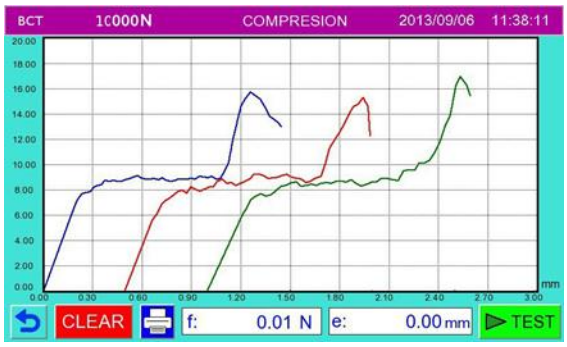
- High rigidity steel frame
- Force capture system equipped with 3 load cells placed under the lower plate
- Select one of the two types of upper plate motion: omnidirectional ball for oscillating plate (ISO 2872, FEFCO 50, UNE 49.701) or fixed and parallel to the lower plate (TAPPI T 804)
- Guiding of the upper plate is made by means of 4 cylindrical columns and low friction linear bearings
- Configuration of testing and approaching speeds range between 1 to 350 mm/min
- Utilizes a D.C. servomotor and reductor to achieve stable speeds during the full range of motion
- Accuracy of <1% of the applied force in a range between 2% and 100% of the full range of motion
- RS-232 interface for connection to management and control software
- Force readings with a resolution of 0.004% of the full range of motion and extension readings with a resolution of 0.01 mm
- Electronic deformation transducer (optical encoder)
- The device is mounted on anti-vibration pads
- Electrical Connection: 220/50Hz or 110V/60Hz
- 2 fixed, and 2 movable, security stroke limits that can be pre-set
- Security is provided by electronic (programming) and physical (limit switches) protection against overload
- Emergency stop button
- CE Mark

The Box Compression Tester is available in a variety of plates sizes and force ranges.
(Special dimensions available upon request)

Plate Dimensions (mm)	Travel Distance (mm)	Force Range (kN)	Plate Dimensions (mm)	Travel Distance (mm)	Force Range (kN)
800 x 800	800	10	1000 x 1000	1000	10
800 x 800	800	20	1000 x 1000	1000	20
800 x 800	800	30	1000 x 1000	1000	30
800 x 1000	800	10	1000 x 1250	1250	20
800 x 1000	800	20	1000 x 1250	1000	30
800 x 1000	800	30	1000 x 1250	1250	40
			1000 x 1250	1250	50

USER INTERFACE:

- Instrument is configured and controlled through the touchscreen display and two auxiliary buttons
- The display offers easy, and intuitive, operation of the instrument and is configurable for different languages
- It is possible to select, and define, multiple test results. There are two result tables with a maximum of 10 result types. A maximum of 20 test results per table is possible. Test results can be display on a graph
- Statistical control includes mean value, standard deviation, and minimum/maximum values
- Different configurable units for the force, extension, and speed parameters.
- Test maneuver with automatic return to initial position at maximum speed (350 mm/min).
- Ability to set different breaking and preload levels
- Periodic programming updates are available at no additional cost



SOFTWARE CONTROL (Optional):

PTA NOVILOG software allows control, and management, of the test instrument using the RS-232 connection. The software allows the user, through their computer, to create pre-set tests, save test results, graph curves, conduct test reports, etc.

TEST DESCRIPTION:

The corrugated box, or other packaging, to be tested is placed at the center on the lower plate of the compression tester. When the test starts, the upper plate descends to apply a load to the specimen. The force of the load is captured by means of the three load cells located under the lower plate. When the system detects the specimen breaking, the upper plate returns to the initial position at maximum speed (350 mm/min).