

BCT

Box Compression Tester

Code: E.212.xxx

Usage

To carry out compression tests on corrugated boxes and other types of packaging with the product inside.

Applicable standards

- DIN EN 22872
- ISO 12048
- TAPPI T804
- UNE 57163/5
- FEFCO N°50
- AFNOR H13-001





Sample centered between plates

Device description

The Box Compression Tester is built into a sturdy base frame in which two pressure plates are mounted. The upper plate can be used fixated and parallel to the bottom plate or can be tilted via four fixation levers. There are three sensors under the lower plate which measure the force and break of the box. The device is operated via the touch panel and adjustable limit switches on the front.

Process description

The box sample is placed in the center of the bottom plate and by pressing the start button, the upper plate lowers on the sample and a load will be applied. The compression force is captured by means of the three load cells located under the bottom plate. The system recognizes the sample break automatically and the upper plate returns into its initial position.

Models

Code	Plate Size
E.212.808	800 x 800 x 800 mm
E.212.810	800 x 1000 x 800 mm
E.212.1100	1000 x 1000 x 1000 mm
E.212.1125	1250 x 1000 x 1250 mm
Other sizes are available on request. For more information, ask your personal distributor or PTE Austria directly!	



Touch panel and safety switch on front

Specifications

- sturdy base frame
- 3 electronic load cells under the bottom plate
- electronic deformation transducer
- guiding of the upper plate done by 4 cylindric column guides and linear bearings with very low friction
- 2 fixed safety stroke limits
- 2 adjustable moveable safety stroke limits
- 2 spindles with low-friction ball circulation
- safety switch easy-accessible on the front
- servo motor & reduction gear to achieve stable speeds in full
- test & approach speed adjustable between 1 and 350 mm / min
- electronic & physical protection installations
- RS-232 interface
- force readings with a resolution of 0.004% of the FS
- extension readings with a resolution of 0.01 mm
- accuracy <1% of applied force in a range between 2 – 100% of full scale
- graphical display of test results
- statistics like mean value, standard deviation, max. and min. values
- configurable parameters of force, extension and speed

Connections

- Electricity: 110 – 220 V, 50/60 Hz