

# Box Compression Tester

RL-BCT-A

The RL-BCT-A Box Compression Tester is used for carrying out compression tests on packing boxes.

The corrugated box or packaging to be tested must be placed centered in the lower plate of the compression tester. When the test begins, the upper plate will displace downward and a load will begin to be applied to the specimen. This force is captured by means of the three load cells located under the lower plate. When the system detects the sample breaking, the upper plate returns to the initial position at maximum speed.

The Box Compression Tester can be manufactured with different plates sizes and force ranges. Consult your provider about special dimensions.

## FEATURES

- The guiding of the movable plate is made by means of four cylindrical column-guide and low friction linear bearings.
- Two low friction balls spindles
- Force capture system equipped with 3 load cells placed under the lower plate
- Driven by D.C. Servo-motor and reductor to achieve stable speeds in the full scale
- Possibility of two types of upper movable plates. Fix and Parallel to the inferior plate and movable with omni-directional ball, oscillating plate
- Optical deformation encoder
- Security: Electronic (program) and physical (limit switches) protection against overload
- Accuracy <1% of the applied force in a range between 2% and 100% of the full scale



**RYCOLAB**

## SPECIFICATIONS

- High rigidity steel frame
- RS232 Port
- Electricity: 110 - 220V, 50-60Hz
- Emergency push button
- Configuration of testing and approaching speeds between 1 and 400 mm/min.
- Force readings with a resolution of 0.004 % of the FS, and extension readings with a resolution of 0.01 mm.
- CE mark

### Applicable Standards:

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



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## USER INTERFACE

- Machine controlled by means of a touch screen and two auxiliary buttons.
- Through the visualization and control screen, the total control and configuration of the machine can be managed.
- Easy and intuitive operation of the control menu, configurable in different languages.
- Possibility of selecting and defining multiple test results.
- Two result tables with a maximum of 10 result types and 20 test results per table.
- Possibility of display the test results in graphic way.
- Statistical control. Mean value, standard deviation and maximum and minimum values.
- Different configurable units for the force, extension and speed parameters.
- Test maneuver with automatic return to initial position at maximum speed (400 mm/min).
- Setting of different breaking and preload levels.
- Periodical program updates (without additional costs)

### Optional Software

The machine, through its RS-232 connection, allows the total control and management of the test by means of the NOVILOG software. It will be possible to preset tests, save test results, graphical curves, carry out test reports, etc.



## AVAILABLE OPTIONS

Model	Size	Capacity
RL-BCT-888-10-A	800 x 800 x 800mm	10kN
RL-BCT-888-20-A	800 x 800 x 800mm	20kN
RL-BCT-888-30-A	800 x 800 x 800mm	30kN
RL-BCT-8108-10-A	800 x 1000 x 800mm	10kN
RL-BCT-8108-20-A	800 x 1000 x 800mm	20kN
RL-BCT-8108-30-A	800 x 1000 x 800mm	30kN
RL-BCT-101010-10	1000 x 1000 x 1000mm	10kN
RL-BCT-101010-20	1000 x 1000 x 1000mm	20kN
RL-BCT-101010-30	1000 x 1000 x 1000mm	30kN
RL-BCT-101010-50	1000 x 1000 x 1000mm	50kN
RL-BCT-1012510-10	1000 x 1250 x 1000mm	10kN
RL-BCT-12580125-10	1250 x 800 x 1250mm	10kN

