



## "MiniVAL" COMPRESSION TESTER

To perform compression and resistance tests to packaging according to International Standard specifications.



## “MiniVAL” COMPRESSION TESTER

### APPLICABLE STANDARDS:

UNE 137001 - DIN UNE EN ISO 12048 - DIN UNE EN ISO 16495 - ASTM D 642 - ASTM D2659-16 ASTM D 4169 - ASTM D 4577 - ASTM D 7030 - DIN 55440-1 - TAPPI T804 - FEFCO 50 - 49 CFR 178.606 - ISTA Series...

- Force capacity: 10 kN
- Platen size: 500 X 500 mm
- Maximum distance between compression plates: 500 mm
- 3 Load cells for highly accurate testing
- Robust and precise tester
- Top fixed parallel plate
- Oscillating Platen System
- Strength reading in N, Kg or Lb
- Automatic platen return
- RS-232 interface
- Compatible with LYNX System



Testing Software with basic statistics, with control from PC in closed loop using our software test pack with 3 test modules:

- BCT Test Module (standard test)
- Constant Load (STACKING test)
- Cyclic Test Module (Dynamic strain according to Strength and Stroke)

## FORCE:

- **Force range:** 10 kN (2,248 lbf)
- **Load Measuring Systems:** 3 precision Load Cells (prevents side loading errors) .03 % FS accuracy
- **Drive System:** DC – Variable Speed Drive systems
- **Displayed System Resolution:**
  - \* Force: 0,1 N (0.02 lbf.)
  - \* Platen displacement: 0.001 mm (0.000040 in.)
  - \* Moving plate speed: 0,1 mm/min. (0.0040 in./min.)
- **Platen flatness:** Flat within 0.25 mm (0.01 in.)
- **Parallelism of platen:** Parallel within  $\pm 1$  mm ( $\pm 0.04$  in.) per meter.
- **Safety features:**
  - \* E-Stop
  - \* Overload protection software
  - \* Upper and Lower limit switches
  - \* Protection limit of the electric power supply
  - \* Load sensor with automatic plate return
  - \* Communications failure detection integrated with automatic stop
- **Variable platen test speed:** 1 – 350 mm/min (0.04 – 13,78 in./min.)
- **Moving plate return speed:** 350 mm/min. (13,78 in./min.)
- **Guiding the mobile plate:** By means of guided columns
- **The testing machine:** It is mounted on 4 silent-blocks that prevent noise and vibrations
- **Output interface:** RS-232

## MEASURE OF FORCE

- **Select units:** Newton, Kg & Pounds

## MEASURE OF EXTENSION (DEFORMATION)

- **Select units:** millimetres & inches

| BOX COMPRESSION TESTER - "MiniVAL" |             |                 |               |                                         |                             |              |            |
|------------------------------------|-------------|-----------------|---------------|-----------------------------------------|-----------------------------|--------------|------------|
| Model                              | Range<br>kN | Resolution<br>N | Platens<br>mm | Max. separation<br>between plates<br>mm | Dimensions<br>W x W x D /mm | Weight<br>kg | Power<br>W |
| MiniVAL                            | 10          | 0,1             | 500x500       | 500                                     | 800x600x1050                | 200          | 600        |

**POWER SUPPLY:** 110V/60Hz or 220V/50Hz single-phase

**PACKAGING DIMENSIONS:** 1000 x 850 x 1310 mm (W X D X H)

**GROSS WEIGHT:** 320 Kg (wooden packaging with phytosanitary treatment)

### STANDARD DELIVERY CONTENT:

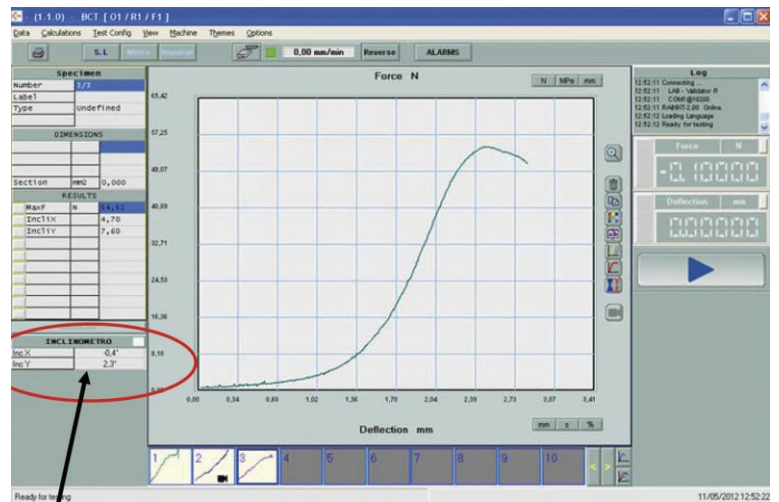
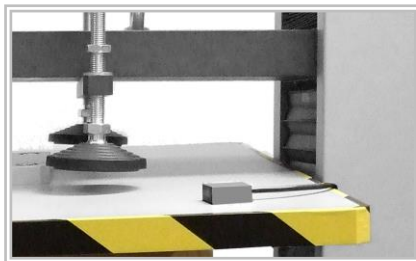
- \* "MiniVAL" Compression Tester + LYNX software (included 3 Test Modules BCT + CONSTANT LOAD + CYCLIC Tests)
- \* LYNX Management Module with Basic Statistics
- \* All-in-One Touch Screen PC 22" – Windows Operative System

**With Oscillating & Fixed Plate System:**  
For compression tests according to TAPPI - ISO & FEFCO Standards.



**OPTIONAL ACCESSORY:**  
**INCLINOMETER** - Allows the registration of inclination angle of the X and Y axis during the compression test.

\*\* This accessory can only be installed with the OSCILLATING Plate System.

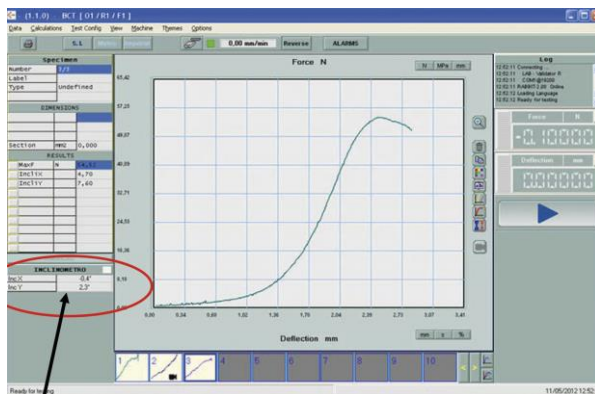


**“Mini-VAL” SPECIAL DESIGN:** To perform physical-mechanical tests on egg containers (**Flexion - Tensile and Compression**) with a single top load cell and easy-to-use interchangeable test tools.



## LYNX Test Software for PACKAGING and PACKING COMPRESSION:

- Quickness in the execution of the tests and in obtaining results
- No human error
- Traceability according to ISO 9000
- The testing software records minimum, maximum and median value as well as standard deviation
- Up to 100 test of measurement capacity for each report
- SAVE, PRINT and COPY to Office Clipboard functions



The Testing Software allows testing of Compression at Break, Compression at Constant Load and Cyclic Compression on Packaging and Packaging of Corrugated and Compact Cardboard, Plastic, Metal ...

A package with Basic Statistics is included, to be able to perform data management, choice of language, generation of reports, library for changes of test units, different levels of Password, introduction of minimum, maximum and optimal values to manage data with Statistics, Bar charts, GAUSS Bells, Comparison of Tolerances ..., export data to Word - Excel ..., PDF generation ...

