"VAL" Series COMPRESSION TESTER

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

"VAL" Series 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...

- Maximum force capacity: Between 30 and 300 kN (see on table page 3)
- Platen size: (see on table page 3)
- Maximum distance between compression plates: (see on table page 3)
- Robust and precise tester
- 3 Load cells for highly accurate testing
- 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:** Force range according to models between 0 and 300 KN (0-67,443 lbf)
- **Load Measuring Systems:** 3 or 4 precision Load Cells (prevents side loading errors) .03 % FS accuracy
- **Drive System:** DC – Variable Speed Drive systems
- **Dispayed System Resolution:**
  - ∗ Force: Force range according to models (see on table page 3)
  - ∗ 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 ± 1 mm (± 0.04 in.) per meter.
- **Safety features:**
  - ∗ E-Stop
  - ∗ Overload protection software
  - ∗ Upper and Lower limit zwitches
  - ∗ 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 – 250 mm/min (0.04 – 9,84 in./min.)
- **Moving plate return speed:** 250 mm/min. (9,84 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 - "VAL" Series						
Model	Range kN	Resolution N	Plates mm	Max. separation between plates mm	Dimensions W x D x H /mm	Power Kw
VAL-30	30	0,30	1250x1250	1250	1750x1280x2400	1,5
VAL-50	50	0,50	1250x1250	1250	1750x1280x2400	2
VAL-100	100	1	1550x1550	1550	2100x1580x2800	2,5
VAL-150	150	1,50	1550x1550	1850	2100x1580x3150	3,5
VAL-300	300	3	1850x1850	2150	2450x1880x3600	7

POWER SUPPLY: 110V/60Hz or 220V/50Hz single-phase
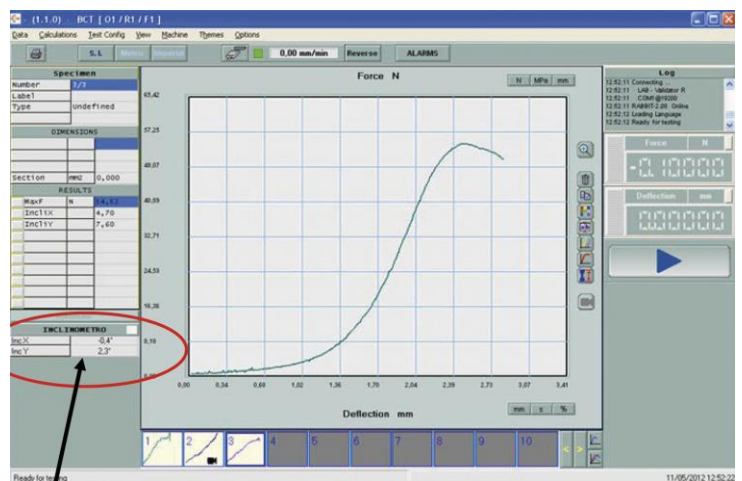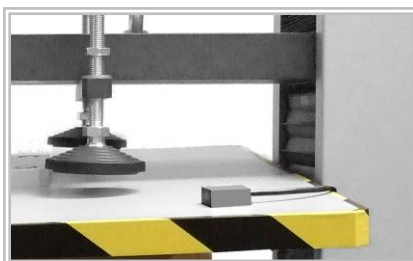220V/60Hz or 380V/50Hz three-phase (in models with capacity >100 kN)

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

VAL 150

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

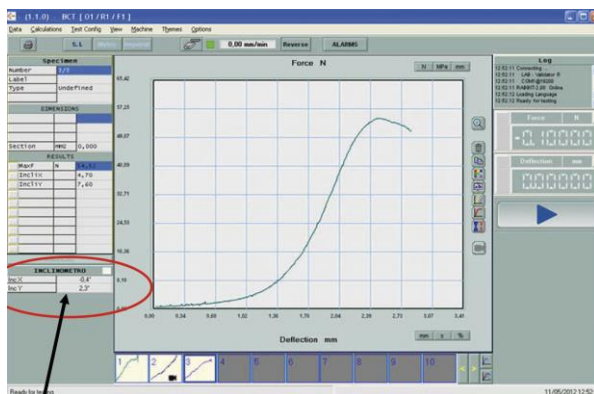** This accessory can only be installed with the OSCILLATING Plate System.

STANDARD DELIVERY CONTENT:
* "VAL" Series Compression Tester ordered + 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

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 …

Doc.: VAL Series-1-CAT-I-R7 | **5**

TECHLAB SYSTEMS reserves the right to do any technical modification without advance notice.