Linux® Compression Strength Testers

COMPRESSION STRENGTH TESTERS

Container Compression Tester is an efficient and easy to use equipment intended for measuring the ability of Corrugated or Solid fiber shipping containers to resist external compressive forces. This method describes how to determine the resistance of a fiberboard shipping container to compressive forces. This is accomplished by placing the container between two flat platens, one of which is mechanically driven to compress the box. A recording device is incorporated to indicate the force and deformation (deflection) required to compress the container.

Significance: (Why this test ?)

The compressive forces are related to some of those exerted on containers in stack or encountered in transportation. The method is used to compare the compressive resistance of different lots of similar boxes or to compare boxes of different grades. It may also be used to compare the compression characteristics of boxes differing in design or construction. In addition the information gained may be used to provide an indication of the load that a particular container may be able to withstand in service.

Specifications:

- Measuring range (Optional): 500, 1000, 2000 & 5000 kgf
- Measuring Unit: kgf, lbf & N
- Load least count: 0.1 & 1 kgf
- Deflection least count: 0.1 & 1 mm
- Accuracy: +/- 1% of reading
- Test speed: (changeable) 12.7 mm/min
- Location speed: 180 mm/min
- Platen Size: 1000 x 1000 mm
- Space between compression plate: 1000 mm
- **Other Platen size & capacity also available on request**
- Power: 220 VAC, 50Hz Single Phase

Applications:

- Corrugated Box
- Plastic Drum
- Crates

Standards:
Conforming to National and International Standard

- TAPPI T 804 om-02, ISO 12048, FCBM 14:96
- ASTM E-4, D 4577 - 94, D 642-98
- IS 7028 (Part VI) 1973, 7028 (Part IX) 1975
- FEFCO TM 50 1997, DIN 51221 Class 1
- BS 1610:1985 Grade 0.5

COMPRESSION STRENGTH TESTER (Micro Digital)

Model : BCT MD
Features
- Single push button operates automatic test cycle.
- Electronic display of load and deflection with failure peak detection and freeze of the readings.
- Top platen loading with either fixed & parallel preset or floating preset.
- Changeable peak detection level for different test.
- Auto Calibration in 5 simple steps.
- Overload protection (Preset)

Dimensions:
- Depth : 1150 mm
- Height : 1850 mm
- Width : 1650 mm

Net Weight **:** 675 kgs

Gross Weight : 925 kgs

COMPRESSION STRENGTH TESTER (Micro Print)

Model : BCT MP

Features

- Single push button operation activates an automatic test cycle, machine starts in fast speed, detects the box, changes to standard test speed and performs compression test.
- A programmable & adjustable graph of load versus deflection can be generated after the test.
- Peak values and deflection are also printed on the report below the graph.
- Printer port (25 pin female) facility to generate printed report (Dot Matrix Printer to be provided by the user).
- A Single test can be performed for report.
- Programmable User Name, Product Name, Vendor/ Customer Name, Codes, Lot Number etc.
- Date & Time stamping.
- Auto Calibration in 5 simple steps.
- Overload protection (Preset)

Dimensions:
- Depth : 1150 mm
- Height : 1850 mm
- Width : 1650 mm

Net Weight : 675 kgs
Gross Weight : 925 kgs

COMPRESSION STRENGTH TESTER (Micro PC)

Model : BCT MPC

Features

- Machine can be operated through PC with the provided software.
- Single push button operation activates an automatic test cycle, machine starts in fast speed, detects the box, changes to standard test speed and performs compression test.
- A large, backlit LCD shows the test and set-up information.
- The integral user–interface consists of a control console with large, positive action cap sense keypad. All test can be performed at the touch of a button.
- RS 232 Port with software, to transfer data to computer (Computer to be provided by user).
- Windows based Software.
- Generation of data in Microsoft Excel & PDF format.
- Data management is easy. Users can create their own specific identification numbers and view data at any time. Stored data can be re–displayed or printed as a table, histogram, or a control chart.
- Programmable User Name, Product Name, Vendor/Customer Name, Codes, Lot No., etc.
- Changeable peak detection level for different test.
- Auto Calibration in 5 simple steps.
- Overload protection (Preset).

Dimensions:
- Depth : 1150 mm
- Height : 1850 mm
- Width : 1650 mm

Net Weight : 675 kgs
Gross Weight : 925 kgs

COMPRESSION STRENGTH TESTER
(Micro PC Touch Screen)

Model : BCT MTPC

Features:

- The machine is microprocessor capable of highly accurate precise load measurements and rapid data acquisition.
- LCD touch flat panel monitor for easy viewing.
- When test stops the platen moves up automatically.
- A group of Six test can be performed for report.
- Generation of data in Microsoft Excel & PDF format.
- Data management is easy. Users can create their own specific identification numbers and view data at any time. Stored data can be re-displayed or printed as a table, histogram, or a control chart.
- Average of test results on report.
- Programmable User Name, Product Name, vendor/Customer Name,Codes, Lot No.,ect.
- Auto Calibration in 5 simple steps.
- Overload protection (Preset)

Touch Screen Features:

The application has five menus:

Test Bench

- For selecting the parameters and performing the test.

Product

- Allows the user to create product or products with combination of flutes, plies etc.

Customer / Vendor

- Creates Master for Customers of the user as well as Vendors supplying the materials to be tested.

Report Analysis

- The most important reason for a user to have a Micro PC model is the facility for viewing and comparing the test reports and results.
- Gives Multiple options of reports.
- Reduces trial and error calculation with exact information on material and material combination results.
- Reduces human dependency with calculations and records.
- Allows the user to save reports in multiple formats like PDF, Excel etc for transfers, presentations etc.
- Has mode to print and display individual test results or multiple test results on various criteria of material, date, combinations, vendors, users etc.

Winner of Pacmachine 2008 Award

The Touch of Technology and Innovation

Operation Features

Single push button operation activates an automatic test cycle, machine starts in fast speed, detects the box, changes to standard test speed & performs compression test.

Overload protection.

Acceptable and non acceptable limit set.

Machine Operation through PC with software.

Masters of Suppliers and Products makes for easy selection of data before testing.

Comparative analysis of any five reports in bar format and 30 reports in histogram format.

Generation of data in Microsoft Excel format

Auto Calibration in 5 simple steps.

Three units of measurement.

Average of test results on the report.

Dimensions:

- Depth : 1150 mm
- Height : 1850 mm
- Width : 1650 mm
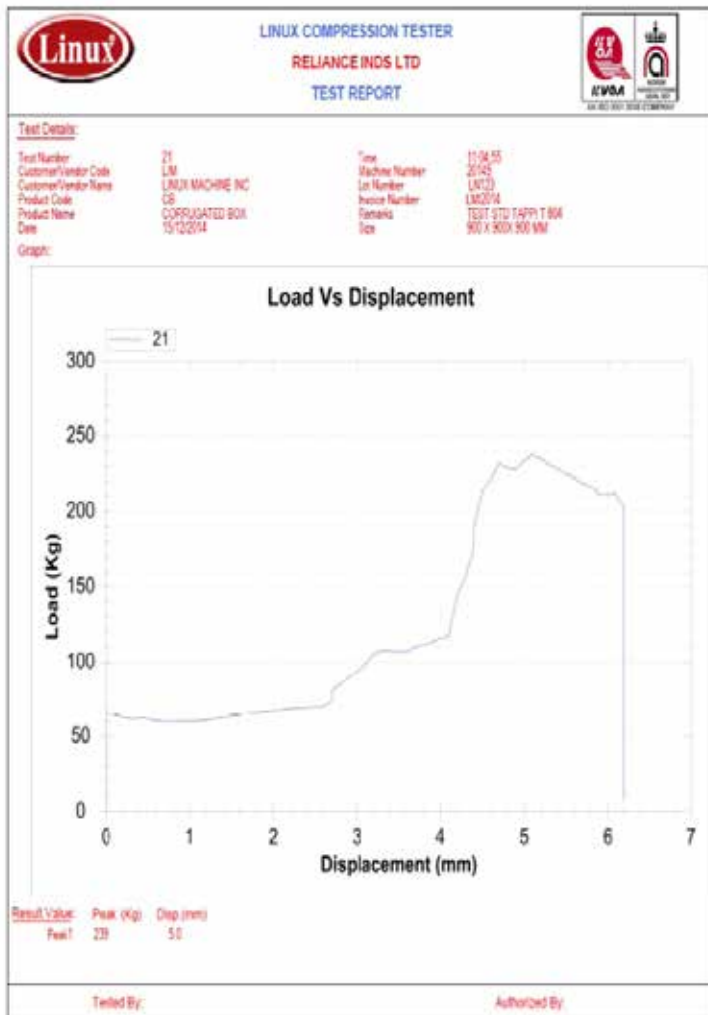
Net Weight : 675 kgs

Gross Weight : 925 kgs

Software:

The software program for Compression Tester is auto installable. Once the Test Configuration menu has been programmed, Start button is pressed, initiating the test.

The results of the test are displayed on the PC in real time. They can then be saved and / or printed for later use.

Home Screen

Printed Test Report

Sample Test Configuration Screen

Sample Test Screen

Designs and specifications are subject to change.

when precision counts

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Plot No. 3, Ahad Industrial Complex, Near Bharat Gears Ltd.,
Bholenath Nagar, P. O. Dawla, Mumbra, Thane - 400612
Board Tel. No. : +91 88794 97458/68, 8879147554/56
Email: machines.linux@gmail.com
www.linuxmachines.in