Compression Tests on Dimensionally Stable Packagings like Boxes, Barrels, Cartes a.s.o.

Servohydraulic compression testing machine with extra large compression platens and extra high testing chamber for testing of packagings with large dimensions.

The testing machines is specially configured according to the customer requirements for testing of different packagings:

- **Determination of the inherent rigidity:**
  Here the force is measured, which a packaging can absorb and remove without buckling. The BCT - box compression test value can be calculated. This value of card board especially depends on the humidity in the air and in its own.
- **Determination of the stacking characteristics:**
  A force application until failure on several packagings allows to calculate the maximum allowed stacking height. The testing systems allows to run tests with empty or filled packagings - important when filled with a liquid. Tests are run with a predefined load over a predefined amount of time or with a constant increase of the applied force until failure.

Tests and Samples

- **Packagings like**
  - Barrels
  - Beverage crates
  - Plastic boxes
  - Cardboard boxes
  - Pallets
  - Buckets
  - Containers
- **Compression tests for the determination of**
  - inherent rigidity
  - stacking characteristics
  - dimensional stability

Testing System

- Servohydraulic compression testing machine Type D - S 1000 kN - S
- Rigid 4-column-construction
- Compression platens 1000 x 1000 mm
- Testing chamber height 1200 mm
- Testing force max. 1000 kN

Control and Measurement

- Test procedure in closed loop mode in connection with servovalve, digital controller **DIGICON 2000**
- PC running materials testing software **PROTEUS** for automatic test control, data acquisition, evaluation and printout of test reports
- Precision load cell for accurate force measurement
- Integrated digital displacement transducer in the testing actuator

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