

# i-Boxtek 1700 Box Compression Tester

i-Boxtek 1700 Box Compression Tester is designed for the determination of compressive resistance, deformation and stacking capability of cartons and beehive crates, which can be used to judge the ability of cartons to resist compression. It is also available for compression resistance test of plastic tanks, paper tanks, paper cases, IBC tanks and other hollow containers and other packages. i-Boxtek 1700 supports online data management and relevant data monitoring.



## Product Features

- Three test modes are available: crushing force test, stacking test A and stacking test B
- Wide power input, step motor control and three test speeds to meet different test requirements
- Over-load protection, maximum stroke protection and error alert provide a safe test operation
- The instrument utilizes Windows operation interface and can be easily operated with a mouse and a keyboard
- Test pressure and deformation can be dynamically displayed on standard LCD monitor
- Equipped with four USB ports and dual Internet ports make it convenient for data transmission
- Miniaturization and integration structure design is suitable for various test environment
- Embedded computer control system provides safer and more reliable data management as well as test operation
- It also supports Labthink exclusive DataShield™ (Optional) which provides the users with safe and reliable management of test data and test reports.

## Test Standards

This instrument conforms to many standards: ASTM D642, ASTM D4169, TAPPI T804, ISO 12048, JIS Z0212, GB/T 16491, GB/T 4857.4, QB/T 1048-2004

## Applications

|                              |                                    |   |
|------------------------------|------------------------------------|---|
| <b>Basic Applications</b>    | Crushing Test of Cartons           | Test crushing force of corrugated cartons and beehive crates  |
|                              | Stacking Test A of Cartons         | Test deformation of corrugated cartons and beehive crates as stack behavior generates   |
|                              | Stacking Test B of Cartons         | Test deformation of corrugated cartons and beehive crates and judge whether the deformation is within the qualified range at fixed time and pressure. |
| <b>Extended Applications</b> | Crushing Test of Hollow Containers | Test crushing force of hollow containers and other samples  |

|                                      |   |
|--------------------------------------|---|
| Stacking Test A of Hollow Containers | Test deformation of hollow containers as stack behavior generates   |
| Stacking Test B of Hollow Containers | Test deformation of hollow containers and judge whether the deformation is within the qualified range at fixed time and pressure. |

## Technical Specifications

| Items                  | Specifications                       |
|------------------------|--------------------------------------|
| Load Cell Capacity     | 9 KN                                 |
| Accuracy               | 1% FS                                |
| Force Resolution       | 1 N                                  |
| Deformation Resolution | 0.1 mm                               |
| Test Speed             | 5 mm/min, 10 mm/min, 12.7 mm/min     |
| Specimen Height        | 100 mm ~ 600 mm                      |
| Test Space             | 0.6 m (L) × 0.6 m (W) × 0.61 m (H)   |
| Instrument Dimension   | 0.65 m (L) × 0.81 m (W) × 1.62 m (H) |
| Power Supply           | 220VAC 50Hz / 120VAC 60Hz            |
| Net Weight             | 180 kg                               |

## Configurations

|                         |  |
|-------------------------|--|
| Standard Configurations | Instrument, Professional Software, LCD Monitor, Keyboard, Mouse, Printer |
| Optional Parts          | Calibration Set, DataShield™   |