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 [Note2]

- 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™ [Note3] (Optional) which provides the users with safe and reliable management of test data and test reports.

Test Standards[Note2]

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[Note2]

Basic Applications	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.
Extended Applications	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[Note1]

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™ Note3

Note 1: The parameters in the table are measured by professional operator in Labthink laboratory according to relative requirements for laboratory standard conditions.

Note 2: The described product features, test standards and configurations should be in line with Technical Specifications.

Note 3: DataShield™ provides safe and reliable data application support. Multiple Labthink instruments can share one single DataShield™ system which can be purchase as required.

Please Note: Labthink is always dedicated to the innovation and improvement of product performance and function. Therefore, technical specifications are subject to change without further notice. Labthink reserves the rights of final interpretation and revision.