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Analysis & Testing Instruments



Compression Tester GBN2000Z



Introduction

The Compression Tester GBN2000Z is a precision equipment specially developed and manufactured by the GBPI R&D team based on the requirements of ASTM, GB and other standards and market demand for testing the compressive performance of cartons. Good compression resistance can ensure that the contents are not damaged during transportation and storage; at the same time, it can also guide the packaging box manufacturers to produce according to the different contents, and can be used as a professional instrument for QS certification of food packaging.

It is suitable for pressure resistance, deformation and stacking tests of corrugated boxes, honeycomb boxes and other packages, and it also takes into account the compression tests of plastic drums (edible oil, mineral water), paper drums, cartons, paper cans and other containers.

Test principle

Placing of the test package between the platens of a compression tester, and compression, the load and platen displacement being recorded until failure occurs or predetermined values for load or displacement are reached.

Standard

ASTM D642, ASTM D4169, APPI T804, ISO 2872, ISO 12048, JIS Z0212

Specification

Items	Technical Parameters
Test range	20 KN
Valid force measure range	0.04%~100%
Test precision	Within $\pm 1\%$ of the indicated value (level 1)
Force resolution	0.001 N
Valid test space	800 mm×800 mm×800 mm

Items	Technical Parameters
Test speed range	0~300 mm/min, CVT
Speed precision	Within $\pm 1\%$ of indicated value
Accuracy of displacement indication	Within $\pm 1\%$ of indicated value
Dimensions	1250 mm×850 mm×1450 mm
Power	1000 W
Power supply	AC 220 V, 50 Hz
Weight	300 kg

Features



◆ Advanced configuration, advanced technology

- Built-in electronic clock, automatically print the date, and display the test time in real time. Computer interface is reserved for easy upgrade to computer measurement and control.
- Test bench lifting device: can realize constant speed impact and variable speed impact.
- The test process is fully automatic control, with load protection function, which can maintain a certain pressure within the set time; after the sample is crushed, the maximum value is automatically locked, and the motor automatically returns.
- Powerful data processing function, automatic calculation of average force value, deformation and other data, built-in calculation formulas for safe compression and stacking of cartons, convenient calculation; free switching of three units (N, kgf, lbf); fault alarm prompt and Sensor nonlinear correction and other functions.

◆ Intelligent operating system

- According to the computer system design, the test process parameters can be set flexibly to ensure the safety and integrity of the test data. Different levels of system operation authority can be set.
- Intelligent statistical analysis, supporting standard deviation analysis of multiple data.

Application

	<p>Pressure resistance, deformation, stacking</p>	<p>It is suitable for the maximum crushing force and stacking test of corrugated boxes, honeycomb boxes and other packages.</p>
	<p>Compression test</p>	<p>It is suitable for the compression test of plastic barrels (edible oil, mineral water), paper barrels, cartons and other containers.</p>

Factory configuration

<p>Standard configuration</p>	<p>Host, fixture, power cord, data cable, software U disk, professional tools</p>
<p>User provide</p>	<p>Computer</p>

Note: GBPI has always been committed to the innovation and improvement of product performance and function. For this reason, product technical specifications and appearance will also be changed accordingly. The above situation will not be notified. GBPI reserves the right of modification and final interpretation.

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