

## KASON-BTPS05A Bottle Top Pressure Strength Tester



### Product Overview

The bottle top pressure tester is designed for testing vertical compressive strength, top pressure strength, and pressure resistance of carbonated beverage bottles, mineral water bottles, plastic bottles, cans, composite cans, and other containers. The instrument adopts a ball screw drive system for stepless speed regulation. It is used for vertical compression tests of bottles of various capacities. Users only need to place the sample between fixtures; the intelligent tester automatically completes the test, and professional testing software records the full test curve. It is an essential testing instrument for quality inspection institutions, beverage manufacturers, and packaging material enterprises. The built-in controller supports multiple test modes, and different test fixtures can be replaced to achieve various testing functions.

### Product Features

Microcomputer intelligent control, menu interface, PVC operation panel, large LCD display.

Test speed is adjustable freely from 1–500 mm/min.

Intelligent configurations including limit protection, overload protection, automatic return, and power-off memory ensure safe operation.

Equipped with functions of parameter setting, printing, viewing, clearing, and calibration.

PVC key operation with real-time LCD display. The interface shows test method selection, parameter selection, test operation, and results clearly and conveniently.

High-precision full digital speed control system and precision reducer drive the precision ball screw pair, enabling wide-range speed adjustment, low noise, and stable running.

### Testing Principle

The sample is placed between two platens of the vertical compression tester. The two platens move toward each other. The force sensor on the moving platen and the built-in displacement sensor collect the changes of vertical compression force and displacement during the test, so as to calculate the compressive strength performance indexes of the sample.

### Technical Parameters

Item	Specification
Model	KASON-BTPS05A Bottle Vertical Compression Strength Tester
Measuring Range	0–1000 N (2000 N, 3000 N, 5000 N optional)
Resolution	0.01 N
Test Force Accuracy	Better than $\pm 0.5\%$
Sample Diameter	< 160 mm (customizable)
Sample Height	$\leq 600$ mm
Displacement Resolution	0.001 mm
Displacement Measuring Accuracy	Better than $\pm 1\%$
Displacement Speed Range	1 mm/min ~ 500 mm/min
Displacement Speed Accuracy	Better than $\pm 0.5\%$
Tester Class	Better than Class 0.5
Data Output	Optional thermal or dot matrix printer
Dimensions	430 (L) $\times$ 430 (W) $\times$ 1350 (H) mm
Power Supply	220 VAC 50 Hz / 110 VAC 60 Hz
Net Weight	Approx. 80 kg
Remark	Customized production available for special requirements within our capacity.

**Standard Configuration**

Main unit structure  
Compression platen  
5-inch touch screen controller  
Stepping drive system  
Printer  
Technical documents

**Optional Accessories**

Non-standard fixtures  
Other non-standard customized services

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