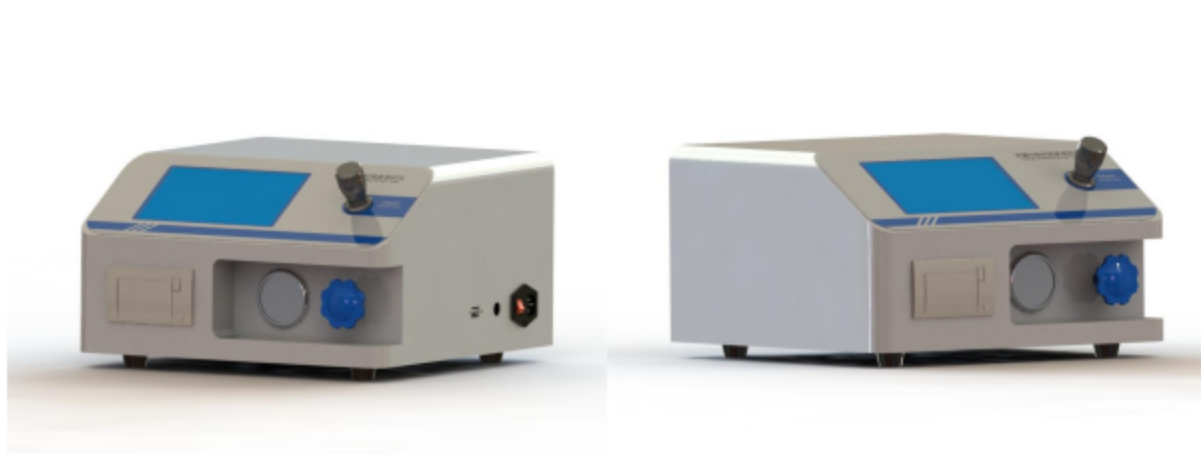
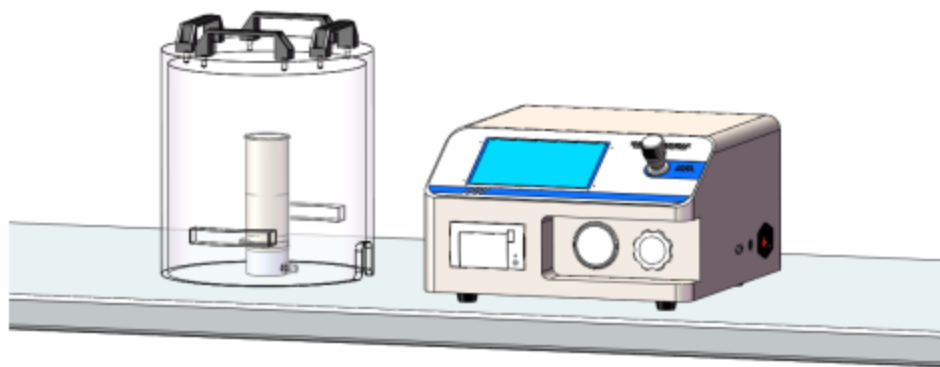


KASON-CTT600 Composite Can End Cap Performance Tester**Product Application**

The KASON-CTT600 Composite Can End Cap Performance Tester is a specialized instrument custom-designed in accordance with the GB/T 10440 standard for cylindrical composite cans. It is specifically engineered to measure the end cap detachment force and rapid leakage performance of cylindrical composite cans. Its primary application lies in the comprehensive performance testing of end caps for small cylindrical packaging containers—specifically those featuring a body constructed from composite materials (such as cardboard combined with paper, plastic, or aluminum) and sealed at one end with an end cap. It serves as an indispensable instrument for comprehensive end cap performance testing within various can-manufacturing enterprises. ****Applicable Industries****

Composite cans for potato chips, milk powder, seasonings, dried fruits, health supplements, nutritional products, tea, etc.

Product Features

1] Microcomputer control: Test parameters are fully configurable, and the entire testing process is completely

automated.

- 2] LCD Touchscreen Display: The testing process is displayed on a touchscreen interface, simultaneously showing parameters such as set pressure, set pressure-holding time, and real-time pressure readings.
- 3] PVC Control Panel: Equipped with physical "Start" and "Stop" buttons for simple and convenient operation.
- 4] Protective Shield: Constructed from high-quality imported acrylic tubing, featuring thick walls and high transparency.
- 5] Fully Configurable Parameters: Test duration, test pressure, pressure replenishment ratio, and the inner diameter of the composite can are all adjustable, enabling one-touch operation for the entire testing process.
- 6] Precision Pneumatic Components: Utilizes high-precision imported pneumatic components, ensuring superior sealing performance and enhanced reliability.
- 7] Dual Testing Modes: The instrument features two distinct testing modes: "End Cap Detachment Force" mode and "Rapid Leakage" mode.
- 8] Rapid Leakage Test: Automatically maintains constant pressure by replenishing air for 60 seconds—based on the preset replenishment ratio—eliminating the need for manual intervention.
- 9] End Cap Detachment Force Test: Automatically calculates and displays the final detachment force (in Newtons) based on the preset inner diameter of the composite can and the maximum blow-off pressure achieved.
- 10] Customizable Mandrels: Mandrels of various sizes can be custom-ordered to precisely meet the specific testing requirements of actual samples.
- 11] Automatic Pressure Release: Pressure is automatically released upon test completion, effectively ensuring operator safety and saving operational time.
- 12] High-Precision Pressure Sensor: Features an imported pressure sensor with a built-in calibration module that supports multi-point pressure calibration, facilitating convenient third-party calibration.
- 13] Comprehensive Safety Protection: Incorporates multiple layers of protection against pressure overload and electrical hazards to ensure the safety of both the instrument and the operator.
- 14] Independent Power Supply: To ensure stable, interference-free operation, the instrument utilizes a multi-channel independent power supply system.
- 15] Built-in Printer: Equipped with a thermal micro-printer, allowing for the direct output and printing of test results.
- 16] Data Management: Includes functions for saving and retrieving historical test results.
- 17] Optional Connectivity: Supports optional standard serial PC communication interfaces or Ethernet port outputs.
- 18] Optional Laboratory Data Management System: An optional software system is available to enable centralized data collection and statistical management for multiple connected instruments.

Components and Testing Requirements

End Cap Detachment Force Test:

- 1] Components: One (1) main unit of the Composite Can End Cap Performance Tester. A mandrel with an outer diameter 0.1 mm smaller than the inner diameter of the composite tank under test, featuring an internal gas passage

and equipped with a throttle valve. One annular clamping device. One safety shield.

2] Testing Requirements: Place the test specimen—which has a metal cap sealed at one end and remains open at the other—onto the mandrel. The distance between the mandrel and the end cap must be no less than half the height of the tank. Secure the specimen using the annular clamping device, connect the pneumatic tubing, and install the safety shield. Start the instrument to introduce compressed air into the composite tank via the mandrel; adjust the throttle valve to increase the internal pressure over a period of 6 ± 2 seconds until the end cap is blown off. The instrument will automatically capture the maximum pressure reading at the moment the end cap detaches and automatically calculate the final detachment force value in Newtons.

Rapid Leakage Test:

1] Components: One main unit of the Composite Tank End Cap Performance Tester. One sealing device for introducing compressed air into the test specimen. One water tank.

2] Testing Requirements: For specimens sealed at only one end, insert the air-introduction sealing device into the open end of the specimen and secure it tightly to ensure a proper seal; for specimens sealed at both ends, use a specialized tool to create an air-introduction port on one side of the specimen without damaging the sealed area of the end cap. Pressurize the interior of the specimen in accordance with standard requirements; after maintaining the pressure for 60 seconds, immerse the specimen into the water tank and observe the sealed areas for any continuous stream of escaping bubbles.

Technical Specifications

Model: KASON-CTT600

Power Supply: AC 220V, 50Hz

Pressure Range: 0 – 600 kPa

Pressure Accuracy: ± 0.1 kPa

Control Method: Microcomputer control; fully automated testing, including max value recording, pressure compensation, test termination, result calculation, etc.

Display Method: LCD touch screen display; thermal printer output

Test Modes: End Cap Detachment Force Mode; Rapid Leakage Mode

Time Range: 0 – 6000 s

Mandrel Outer Diameters: 52.3, 59.9, 65.1, 72.4, 74.0, 76.1, 77.9, 83.1, 99.0, 104.8, 126.0, 153.2, 164.4, 199.9 mm
(14 sizes available)

Air Source: 0.7 MPa Compressed Air (User-supplied)

Air Source Interface: $\Phi 6$ Polyurethane Tubing

Main Unit Dimensions: 400 (L) \times 400 (W) \times 240 (H) mm

Main Unit Weight: Approx. 10 kg

Standard Configuration:

Main unit, protective cover, air tubing, mini-printer, power cord, instruction manual, choice of any three mandrel sizes, annular mandrel fixture, rapid leakage inflation head.

Reference Standard: GB/T 10440-2008 — Cylindrical Composite Cans

FOCUS IN MATERIAL TEST

KASONTTEST®

JINAN KASON TESTING
EQUIPMENT Co, LTD.

DuandianIndustrial Park , Jingshi Road, Jinan City,China.

P: +86 159 1008 1986

E: admin@jnkason.com | W: www.syjlab.com

