

KASON-FBT600 Falling Ball Impact Tester**Product Function:**

The Rigid Sheet Falling Ball Impact Tester is designed to evaluate the damage sustained by plastic sheets—specifically those with a thickness of less than 2mm—when subjected to the impact of a steel ball dropped from a specified height. It is widely utilized by quality inspection agencies, pharmaceutical companies, and packaging manufacturers.

Testing Principle:

A test specimen of a specific size is prepared and secured within the specimen holder. A suitable steel ball is selected and positioned within the electromagnetic release mechanism. The steel ball is then released to fall freely onto the central area of the specimen. The specimen is subsequently inspected to determine the extent of any damage; after conducting multiple trials, the breakage rate is calculated.

This instrument complies with numerous national and international standards,

including YBB00212005-2015, YBB00232005-2015, YBB00222005-2015, YBB00182004-2015, YBB00202005-2015, and YBB00242002-2015.

Testing Applications:

Primary Application: Rigid PVC Sheets — Used to evaluate the damage sustained by polyvinyl chloride (PVC) plastic sheets—with a thickness of less than 2mm—when subjected to the impact of a steel ball dropped from a height specified by relevant standards.

Extended Application: Tamper-Evident Bottle Caps — Used to perform falling ball impact tests on tamper-evident bottle caps.

Product Features:

1. Multiple impact steel ball options available to meet various standard requirements.
2. Adjustable drop heights to accommodate the specific requirements of different test specimens.
3. Pneumatic clamping and release mechanism for specimens ensures faster and more precise test operations.
4. Electromagnetic suspension and automatic release of the steel ball eliminate system errors caused by human factors.
5. Foot-pedal activation mode offers user-friendly and ergonomic operation.
6. Integrated safety guard ensures a safer testing process.
7. Central positioning device ensures reliable and accurate test results.

Technical Parameters:

Model: KASONFBT600

Test Height: 300mm–600mm (300mm–900mm optional)

Sample Thickness Range: 0–2mm

Steel Ball Diameter: 23mm, 25mm, 28.6mm (38.1mm, 50.8mm optional)

Specimen Clamping: Pneumatic clamping

Steel Ball Handling: Electromagnetic adsorption/release

Specimen Dimensions: >150mm × 50mm

Power Supply: AC 220V, 50Hz

Test Conditions: Temperature 10–30°C; Relative Humidity ≤ 85%

Main Unit Dimensions: 470mm (L) × 400mm (W) × 920mm (H)

Net Weight: Approx. 30kg

Reference Standards: YBB00212005-2015, YBB00232005-2015, YBB00222005-2015, YBB00182004-2015, YBB00202005-2015, YBB00242002-2015, etc.

FOCUS IN MATERIAL TEST

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