

HST-BS90 Paperboard Bending Stiffness Tester



Scope of Application :

The bending stiffness tester is an instrument used to test the bending stiffness of paper and paperboard. This instrument is designed and manufactured according to the requirements of standards such as GB/T2679.3 "Determination of stiffness of paper and paperboard" and ISO5628 "Paper and paperboard—General principle for determination of static bending stiffness". When paired with the bending stiffness measurement and control system, the instrument can be used to test the bending stiffness performance of sheet materials such as plastic sheets , mica sheets, graphite sheets, and composite materials.

Technical Specifications :

Sample size: 38*70mm (standard size)

Actual measured dimensions : 38*50mm (standard)

Span range: The lever arm is adjustable with span lengths of 10mm, 20mm, 30mm, 40mm, and 50mm.

Span accuracy: ± 0.1 mm

Span adjustment method: Precision linear guide rail with locating pin adjustment, which can effectively

ensure smooth sliding and positioning accuracy.

Measurement range : (15 ~ 10000) mN

Sensors : Sensing accuracy $\pm 0.3 \%$

Resolution : 0.01mN

Bending angle: 0~90° infinitely adjustable

Angle measurement: Each measurement is of a single angle, with stepless selection within the range of 0 to 90 degrees.

Angular velocity control: Adjustable from 0.5 to 50 °/sec, with three independently adjustable test angles and durations.

Angle accuracy: ± 0.1

Measure thickness: Suitable for paper types and other composite materials with a thickness of (0.01~ 4.0) mm.

Bending time : Different bending times are selected based on the elasticity of the material.

Sample clamps: All stainless steel clamps with automatic rotation and reset device

Clamping range: 0-4mm wide clamping range

Measuring contact head: The stainless steel measuring head has a compact and durable structure that effectively reduces measurement errors.

Sensor connection: Quick-plug design for easy external calibration and replacement of individual sensors.

User interface: 7-inch touchscreen interface with visual menu operation.

Operating System: Bending Stiffness Dedicated Measurement and Control System

Clamping method: Manual, unlimited clamping, allowing for continuous clamping without damage.

Signal output: Standard computer signal output, connects to a computer operating platform, enabling document editing (optional).

Self - calibration: The device can perform self-calibration upon startup and has a reserved interface for third-party calibration, facilitating the processing of calibration data from third parties.

Print output: Modular all-in-one thermal printer

External dimensions: 400*400*250mm

Weight: 15kg

Bending Stiffness Sampler (Optional)

Sampling size : 70*38mm stiffness;

Blade material: Mold steel; the blade is sturdy, wear-resistant, and durable.

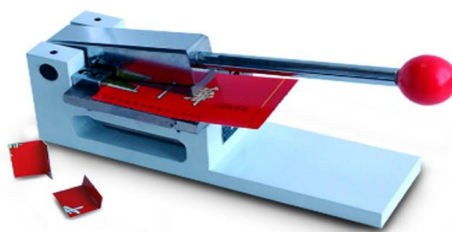
Number of blades: Three sets of blades for three-sided punching

Parallelism of the two long sides : $\leq 0.015\text{mm}$

Sampling thickness : (0.1~1.2) mm

External dimensions: 300*90* 90mm

Weight : 10kg



HST GROUP Co., LTD.

Jinan Hensgrand Instrument Co., Ltd.

NO. 4915, West Jingshi Road, Jinan 250012, PR CHINA.

Phone/WhatsApp: +86-159 1008 1986

www.hssdgroup.com - e-mail: admin@hssdtest.com