

Bending Stiffness Tester

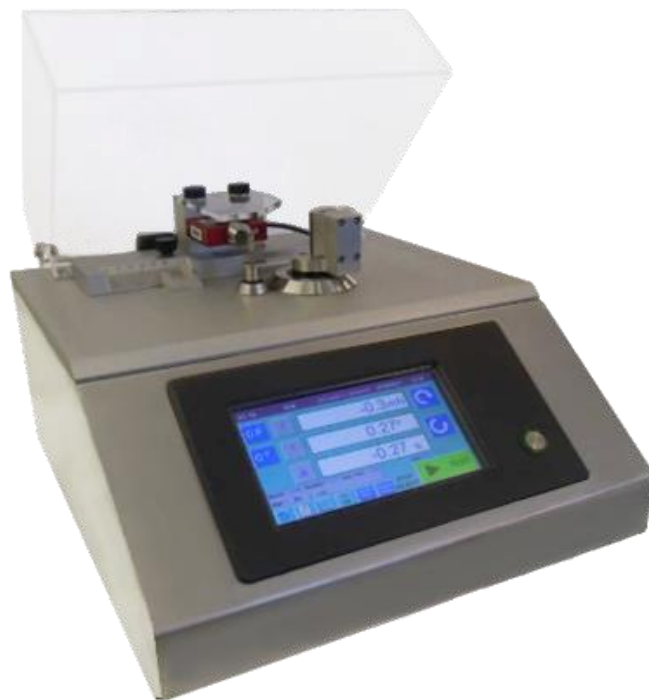
Code: E.119

Usage

To determine the bending resistance and stiffness of paper and paperboard

Applicable standards

- ISO 2493
- SCAN P29
- DIN 53121
- BS 3748
- TAPPI T556
- NFQ 03-048
- IS 3748



Device description

The bending stiffness tester is specialized for paper and paperboard measurements and crease-ability measurements. It is equipped with special anti-vibration dampers to get clear test results without external influences. A clear acrylic glass protects the measurements area. Sample clamping happens pneumatic and the measurement length can be set from 1 to 50 mm and the test speed is 1 to 50°/s. The bending angle can be pre-set from 1 to 90 degrees and there are 2 times of test and 2 points of measurement angles. The bending stiffness tester can be operated solely through the visualization and control screen and is easy and intuitive in use.

Process description

After configuring test conditions and preparing the samples, the test can be started. By pressing the "Start" button the sample is moved automatically. The sample-holder moves now to the pre-selected angle-position and the curve with the determined values is indicated on the touch screen. The testing process will be started automatically as soon as the loading cell is touching the sample (pre-loading selectable). With the holding function a holding time can be selected and a second measurement can be taken. The holding times are very useful for testing the bending-resistance on wet samples of label paper. After the test has been done the sample holder returns to its starting position and the sample can be taken out and the results can be read on the graphic display.

Specifications

- pneumatic sample clamping
- touch display in color graphic
- easy operative & intuitive user interface
- clear acrylic safety cover
- special vibration dampers
- measurement values:
bending stiffness, slop, max. bending moment, bending moment at 90°, bending moment on relaxation, angle at max bending moment, angle at zero-moment on return movement, bending work
- pre-select angles: 5; 7.5; 15 & 30
- up to 90° bending angle (creaseability – scoring)
- speed: 0.1 to 50°/s
- adjustable testing length from 1 to 50 mm
- 3 adjustable measure points
- 2 adjustable measure times
- full statistics
- USB port
- CE certificate

Connections

- Electricity: 110 - 230 V, 50/60 Hz
- Air: max. 600 kPa

Parameters

Dimensions	Weight net
270 x 500 x 270 mm	15 kg