

BENDING STIFFNESS TESTER

For determination of the dynamic forces in a 2-point bending test.

- › Easy operation via the inbuilt touch screen
- › Special vibration dampers and wind shield
- › Three measuring points and dwell time individually adjustable



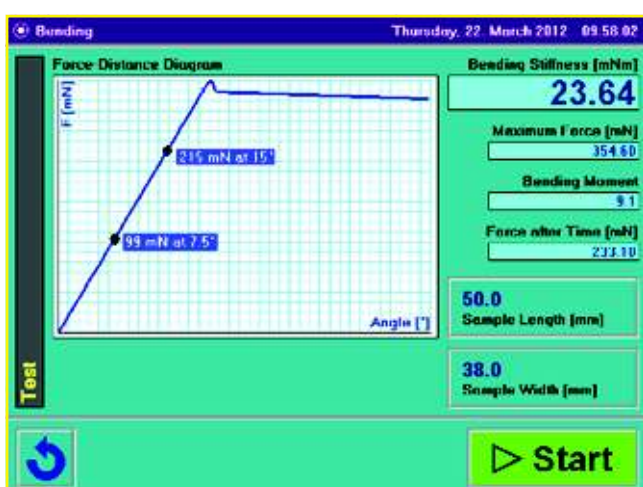
Applicable standards

- › ISO 2493
- › DIN 53121
- › TAPPI T556
- › SCAN P29

etc.



Sample is pushed towards the measurement cell automatically



Up to 3 measurement points can be displayed (e.g. 7.5° / 15° / 30°)

Technical data

Electrical connection	110 – 230 V / 50 – 60 Hz
Water connection	No
Compressed air	400 – 600 kPa

Device description

The bending stiffness tester has been developed specially for the paper industry and is unique because of its simplicity of operation and high measurement accuracy. To prevent outside influence, the housing is located on specially designed oscillation dampers, and the measuring area is equipped with an acrylic glass wind protection. Sample clamping is pneumatic and the measuring length can be set as required between 1 and 50 mm. The device is operated via the integrated touch screen, where the measurement method can be selected, specific settings (e.g. bending angle, duration, angular velocity etc.) can be adjusted, and, after the measurement, results, real-time curves and statistics are displayed.

Test description

The sample, prepared with the sample punch (*see pages 208 – 209*), is placed in the sample holder and the wind protection is closed. The appropriate program is chosen from the touch screen and the sample is assigned to a test series (MD/CD). On touching the start button, the sample is pressed against the measuring cell at the defined speed. When the preset bending angle is reached the sample remains at this angle for the defined duration, and then returns to the start position. On the touch screen, the test results from up to three predefined measurement points are displayed numerically and as real-time curves. If more than one run is carried out in MD and CD, these can be compared as statistics, and the results displayed.

Specifications

- ✓ Easy operation via the integrated touch screen
- ✓ Angular speed: 0.5 – 50 °/sec adjustable
- ✓ Three measurement points and dwell time individually adjustable
- ✓ Bending angle: 0 – 92°
- ✓ Wind shield made of acrylic glass
- ✓ Special vibration dampers
- ✓ FRANK-PTI standard-ports (*see page 12*)
- ✓ Compatible with ProbeNet (*see pages 254 – 257*)
- ✓ Also as PTA-Line unit available (*see pages 172 – 197*)

Models

► Available force sensors:

- 2 N
- 5 N
- 10 N

► Available sample clamps:

- Pneumatic sample clamp (paper)
- Manual sample clamp (automotive VDA)
- Manual sample clamp with automatic bending length adjustment (haptic)