

**StandAlone**

BENDING STIFFNESS TESTER

For:



✓ PAPER



✓ BOARD



✓ TISSUE

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



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)



✓ ProbeNet-
capable

FRANK-PTI
QUALITY TESTING INSTRUMENTS

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MOST IMPORTANT BENEFITS

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

PRODUCT DESCRIPTION

The bending stiffness tester was especially developed for the paper and automotive industry (VDA) and can also be used for creaseability measurements. To avoid falsifying influences, the tester is installed on especially developed anti-vibration dampers. A protection cover made of acrylic glass protects the measurements area. Sample clamping either happens pneumatically or manually with a torque screw driver. The measurement length can be set as required from 1 to 50 mm. The touchscreen is used to select the test programme and assign the samples to the corresponding test series (MD/CD, front side/rear side, angle data, etc.) A comparison of the individual test series can be selected as needed. More settings are available like bending angle, dwell time, angle speed etc.

TEST DESCRIPTION

After preparing the sample with the punch, put it into the support. Close the acrylic glass cover, select your test programme and assign your test to a test series. When you press the start button, the machine pushes the sample towards the measurement cell with precisely defined speed. When the pre-defined bending angle is reached, the sample remains in this angle for the pre-set dwell time. When the pre-set dwell time is over, the sample returns to the initial position. The touchscreen displays the testing results of up to three pre-defined measurement points. The results are displayed in values as well as in the form of a real-time diagram. If various tests of a test series were done, the results can be compared statistically and the ratios can be displayed.

TECHNICAL DATA

DEVICE/INSTRUMENT

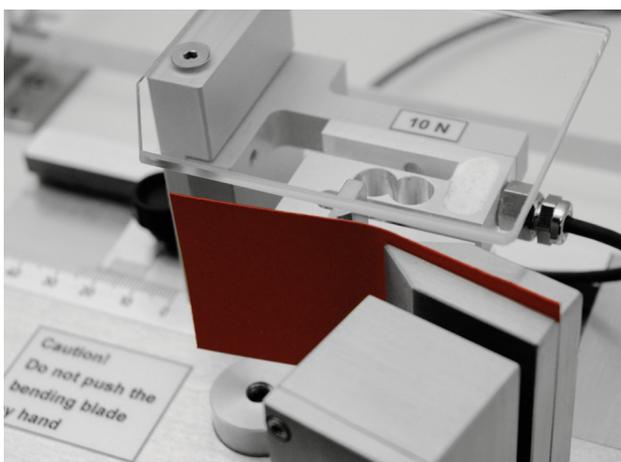
- Easy operation via the integrated touch screen
- Angular speed: 0.5 – 50 °/sec adjustable
- Three measurement points and dwell time individually adjustable
- Bending angle: 0 – 92°
- Wind shield made of acrylic glass
- Special vibration dampers
- FRANK-PTI standard-ports (see page 6)
- Compatible with ProbeNet (see pages 78 – 81)

INSTALLATION REQUIREMENTS

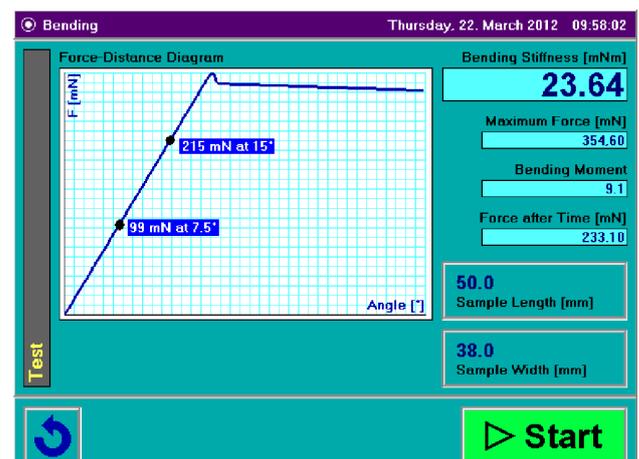
Electrical connection	110 – 230 V / 50 – 60 Hz
Water connection	No
Compressed air	4 – 6 bar

APPLICABLE STANDARDS

- DIN 53121
 - ISO 2493-1
 - TAPPI T556
- etc.



Sample is pushed towards the measurement cell automatically



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