

KES-FB2-SH

Single Fiber Bending Tester



Bending rigidity and recoverability of single yarn and hair can be measured.

Using the detecting system for torsional moment of a steel wire enables to measure the bending moment in micro area.

The measured values are capable of quantifying the softness and elasticity of samples which can discriminate the difference of surface and softening treatment effect on samples.

Specification

Dimensions/Weight (approx.)	Measurement unit: W210 × D240 × H580 (mm) / 30 kg Amplifier: W180 × D400 × H400 (mm) / 10 kg
Power supply	100 VAC Maximum power consumption: 30 W
Measurement environment	20 to 30°C / 50 to 70%RH No condensation. Keep the temperature and humidity stable during measurement. (Standard conditions: 20°C / 65%RH) Note: The tester must be installed at a location with minimal effect from airflow and vibration.
Bending load detection	Torque detector: Detecting system for torsional moment of a steel wire Torque sensitivity: Full-scale 0.08, 0.2, 0.5, 1.0 gf·cm Accuracy: ±0.5% of full-scale
Curvature detection	Curvature detector: Potentiometer Maximum curvature: $K = \pm 2.0 \text{ cm}^{-1}$ Accuracy: ±0.5% of full-scale
Rate of bending deformation	0.5 cm ⁻¹ /sec
Sample size	Diameter: Φ0.07 mm / Φ0.1 mm / Φ0.12 mm (max.) 3 types of chucks are available as the standard accessories. Customize is also available for thinner diameter of sample. Length: 20 mm (min.)

※Please be aware that the contents are subject to change without notice.



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