

KES-G5

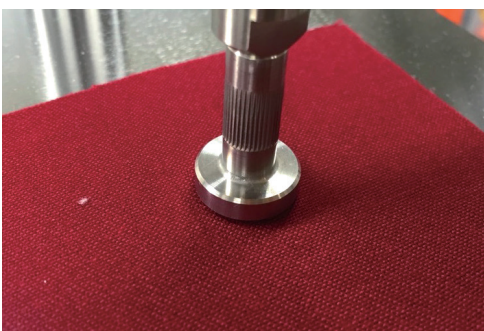
Compression Tester

The KES-G5 Compression Tester analyzes hand movements—particularly, pushing by finger—performed by artisans and professionals when judging an object's texture. The device performs this movement mechanically, making it possible to obtain objective numerical data while offering more enhanced versatility over the KES-FB3-A Compression Tester.

Obtainable data includes compressional rigidity, compressional energy, and recoverability. The device can be applied to a wide variety of fields and purposes, including determining the softness of disposable diapers and the hardness of mousse.

Measurement Example

- Car seat comfort
- Disposable diaper
- Towel softness
- Cosmetic puff softness
- Elasticity of foam and cosmetic cream
- Ease of pushing keyboard keys and buttons.



FEATURES

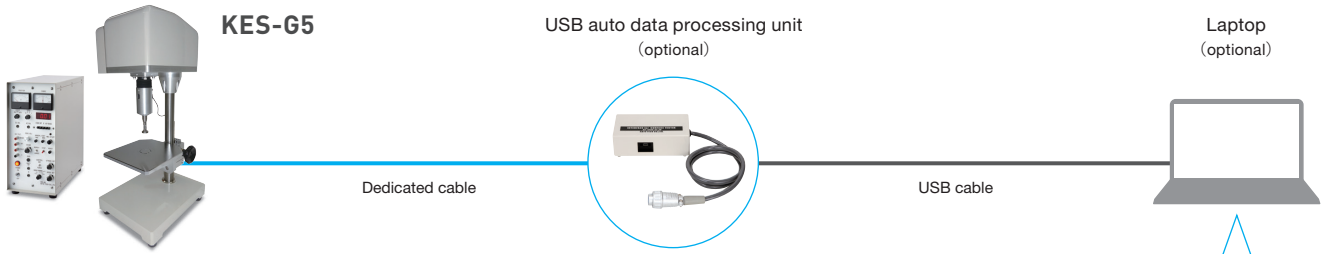
● High sensitivity measurement of a slight force

This device can even detect small stress at the initial stage of compression.

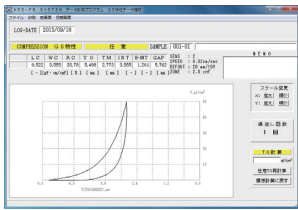
● Recoverability also available

This device can also observe the compressional recoverability, which is normally too small to be measured.

SYSTEM CONFIGURATION DIAGRAM / MEASUREMENT DATA



Sample Measurement Software Screens



◀ Compression properties

Obtainable Data

Item	Characteristic value	Description	Reading the data
Compression properties	LC	Linearity of Compression	Values closer to 1 mean firmer compression
	WC	Work of Compression	Higher values mean higher compression susceptibility
	RC	Recoverability of Compression	Values closer to 100 mean better recoverability

● Compression Sensor Lineup



Size: 2 cm²
Standard accessory



Size: 20 cm²
Softness evaluation for towels, etc.

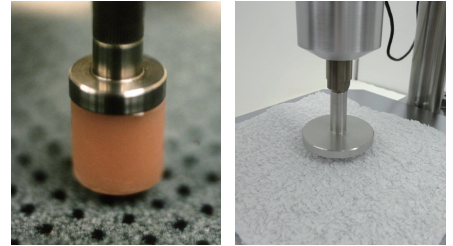


φ10 mm (spherical)
Evaluation of car seats, instrument panels, center consoles, etc.



Silicon φ16 mm

Choose from variously shaped compression sensors according to the test piece, such as silicon material, how easy buttons can be pushed, comfort of car seats, etc.



KES-G5 Compression Tester

Dimensions/Weight (approx.)	Measuring unit: W170 × D220 × H460 (mm) / 13 kg Electronic unit: W180 × D400 × H400 (mm) / 13 kg
Power source	100 VAC, power consumption: 20W Max.
Measurement environment temperature and humidity	20 to 30°C / 50 to 70% RH. (No condensation.) Temperature and humidity should be kept constant during measurement. (Standard temperature and humidity conditions: 20°C / 65% RH) *The instrument should be located to minimize influence from wind or vibrations.
Detection of compressional force	Detector: Ring-type detector with differential transformer Load (full scale): Switchable between 4 ranges (100 gf, 200 gf, 500 gf, 1000 gf) Accuracy: ±0.5% or less of full scale

Compressional deformation detection	Detector: Potentiometer Deformation amount: Max. 20 mm Accuracy: ±0.5% or less of full scale
Compression sensor surface area	2 cm ² circle (standard)
Compressional deformation rate	Standard measurement: 0.02 mm/sec <1 mm/50 sec> High-sensitivity measurement: 0.0067 mm/sec <1 mm/150 sec> Other rates can be specified by settings.
Specimen size	Square sample with a side of 2 to 10 cm (standard)

⚠ Precaution For safety use, please read the operation manual / the instruction carefully and thoroughly before using the tester.

Specification details recorded here are subject to change without notice. We appreciate your understanding.

KatōTech

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LIBERO
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測試設備

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