

# KES-G5

## **Compression Tester**

The KES-G5 Compression Tester analyzes hand movements-particularly, pushing by finger–performed by artisans and professionals when judging a 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.

Car seat comfort

Disposable diaper

Example

Measurement Towel softness

Cosmetic puff softness

Elasticity of foam and cosmetic cream

Ease of pushing keyboard keys and

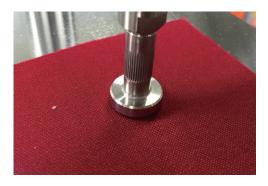
outtons.











### **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



Compression

properties

## ●Compression Sensor Lineup







Size: 20 cm<sup>2</sup> Softness evaluation for towels, etc.



(spherical)

Evaluation of car seats, instrument panels, center consoles, etc.

*₫* 10 mm



◀ Compression properties

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.

Compression

Compression

Recoverability of

Work of

WC

RC



compression

susceptibility

Higher values mean higher compression

Values closer to 100 mean better



# KES-G5 Compression Tester

Dimensions/Weight (approx.)	Measuring unit: W190 × D230 × H460 (mm) / 11 kg Amplifier: 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

rmation amount: Max. 20 mm racy: ±1% or less of full scale
racy: ±1% or less of full scale
<sup>2</sup> circle (standard)
dard measurement: 0.02 mm/sec <1 mm/50 sec>
-sensitivity measurement: 0.0067 mm/sec <1 mm/150 sec>
r rates can be specified by settings.
are sample with a side of 20 to 100 mm (standard)
are sample with a side of 25 to 150 mm (standard)

**⚠** Precaution

For safety use, please read the operation manual  $\!\!/$  the instruction carefully and throughly before using the tester.

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



# KATO TECH co.,LTD. https://english.keskato.co.jp/

#### Head Office and Factory :

26 Karato-cho, Nishikujo, Minami-ku, Kyoto 601-8447, Japan TEL. +81-75-681-5244 (main), +81-75-693-1660 (sales dept.) FAX. +81-75-681-5243 E-mail. katotech@keskato.co.jp

#### Shanghai Office:

Room1604B 16F Feidiao International Building, 1065 Zhao Jia Bang Road, Shanghai, 200030 P.R. China E-mail. shanghai@keskato.co.jp