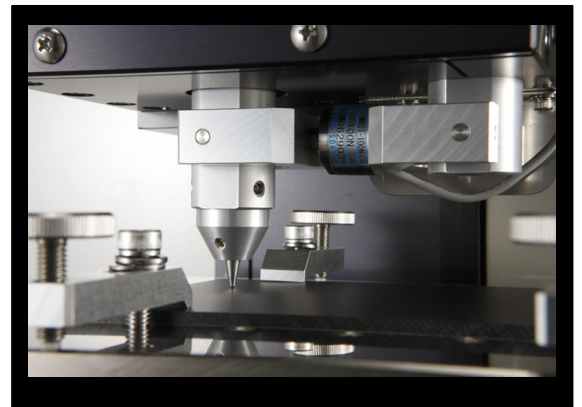


# Scratch Tester Mini KK-02

Compliance with ASTM D7027-05

ISO19252



### Sensor Tip Lineup

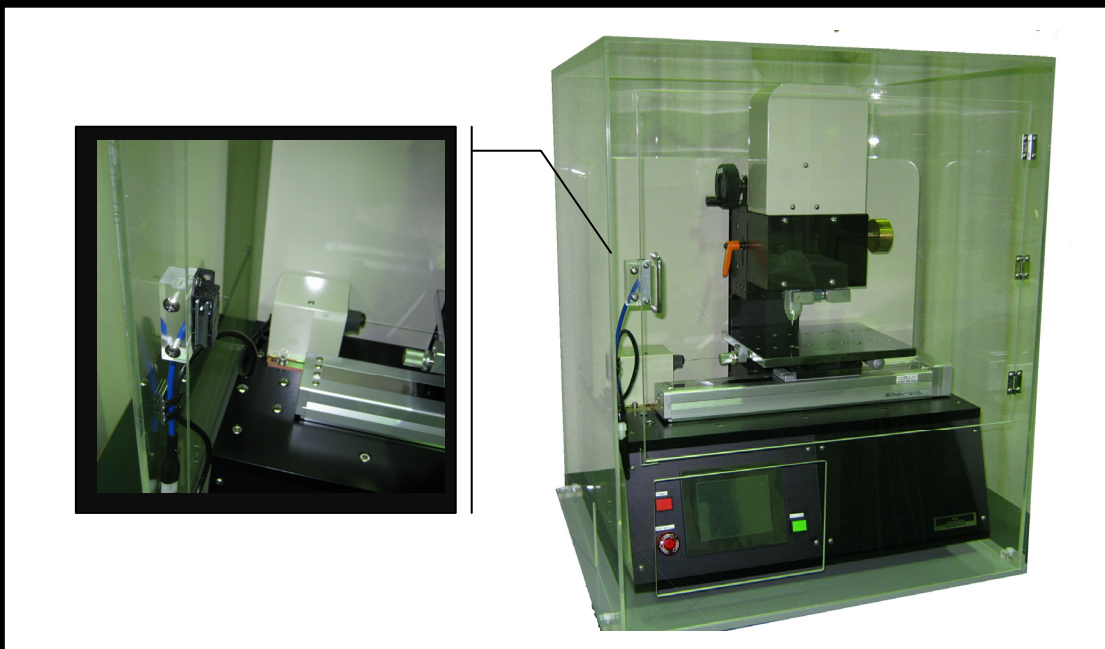
Upper from the left:  $\Phi 0.5\text{mm}$ ,  $1.0\text{mm}$ ,  $1.0\text{mm Carbide}$ ,  
 $2.0\text{mm}$ ,  $7.0\text{mm}$ ,  $10\text{mm}$

Lower from the left:  $\Phi 3.0\text{mm}$ ,  $5.0\text{mm}$ ,  $5.0\text{mm Carbide}$ ,  
 $10\text{mm Barrel}$ , Custom

Composition	Main unit (Technical part · Electronic part · Controller unit *Touch panel)
	Personal Computer for taking data (USB Connection) *Option
Size	Approximately W530×D470×H680 (mm)
Weight	Approximately 64kg
Tip Size	$\phi 1\text{mm}$ (Material:stainless) Spherical tip: $\phi 5\text{mm} \cdot \phi 10\text{mm}$
Sample Size	Suggested approximately 60×210 (mm) or smaller
Scratch Area	Valid size: 25×200 (mm)
Mode	Incremental load · Constant load
Speed range	1–200mm/sec X axis stroke: Max200mm
Normal(X) Load	Max50N
Horizontal(Z) Load	Max50N

Specifications and design are subject to change without notice.

OPTION / Cover Box & Internal locking system

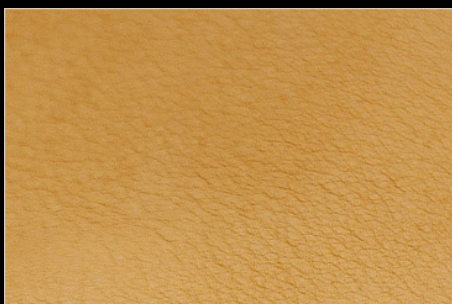
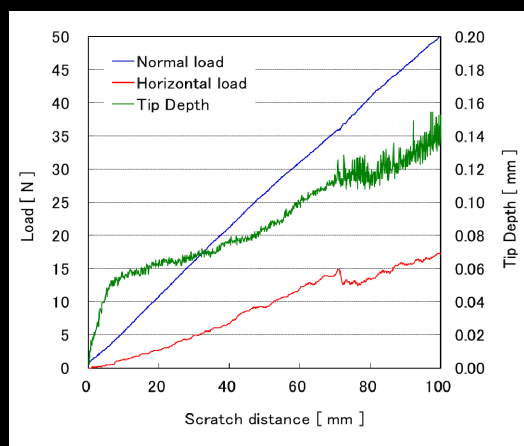
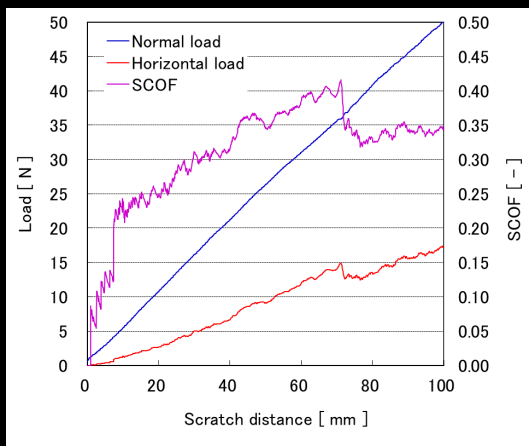


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Kawabata Evaluation Systems

Scratch Coefficient Of Friction (SCOF) = Normal Load / Horizontal Load

Scratch Coefficient Of Friction: It's physical amount and directly relates to the surface scratch damages.

Tip Depth: The horizontal moving amount of scratch tip. Deformation amount of the sample against the load.



Scratch analysis of leather asperity

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