

Elcometer 3025 Scratch / Shear Tester



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At a glance

- Conical diamond tip scratch tester.
- Scratch/shear tester applied to a rotating sample.

Elcometer 3025 Scratch / Shear Tester

A motorised device to test the resistance of many materials to scratching (ISO).

The tool, a conical diamond tip, is fixed beneath a beam graduated from 0 to 1000g (0 to 2.2lb) holding a sliding weight.

This tip is applied to a sample rotating at 5rpm. The tip leaves a trace and the extent of this, in relation to the load used, indicates the degree of hardness.

Hardness Testers

Improved mechanical resistance is part of many quality requirements. One important criteria for assessing this feature is hardness.

Depending on the requirements there are various methods for testing hardness. Some are dedicated to characterise coatings and others are more suitable for testing bulk materials such as metals, plastics, rubber or elastomers.

Elcometer manufacture and supply a wide range of instrumentation designed for the hardness tests most frequently used in the industry – these include pendulum, scratching, indentation or rebound measuring methods.

Can be used in accordance with:
ISO 4586-2

Model	Description	Part Number		
		UK 240V	EUR 220V	US 110V
Elcometer 3025	Elcometer 3025 Scratch / Shear Tester	K0UK3025M001	K0003025M001	K0US3025M001
Accessories	Magnifier x10	KT003025P007		

Related products



Elcometer 3000

Designed to evaluate resistance to scratching. The Clemen hardness test, available as either a motorised or a manual version, is fitted with an hemispherical ball and is gradually lowered gradually onto the surface of the sample and moved 6cm. Depending on the purpose of the test and the load applied, varying degrees of penetration of the tool into the coating are observed.



Elcometer 3092

This simple Sclerometer contains a round tip which is compressed by a spring. The amount of compression on the spring increases the force as the tip is pressed into the coating - by varying the force the user can determine the coating hardness.



Elcometer 3086

Similar to the Elcometer 501 and using the same pencil hardness technique, this motorised Wolff-Wilborn test not only ensures the correct angle and force is applied to meet the standard, but also allows the user to ensure a constant and uniform speed - further increasing the reproducibility of the test.



Elcometer 501

The Elcometer 501 Wolff-Wilborn Pencil Hardness Tester uses the same technique as the Elcometer 3080, but ensures that the pencil lead is maintained at a constant force of 7.5N and at the appropriate angle to meet the standards.

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