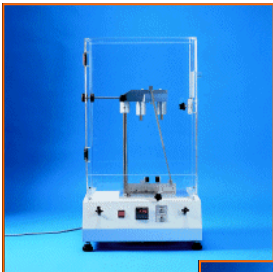
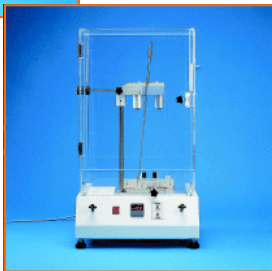


Elcometer 3030 & 3040 Persoz & König Pendulum Hardness Testers



Elcometer 3030 & 3040 Persoz & König Pendulum Hardness Testers



At a glance

- Available as either a Persoz or König, or Persoz & König combined unit.
- Uses the principle of the damping time of an oscillating pendulum.

Elcometer 3030 & 3040 Persoz & König Pendulum Hardness Testers

These instruments work on the principle that the damping time of a pendulum oscillating on a sample indicates its hardness. The amplitude of the oscillations reduces faster when the sample is soft.

The Persoz and König methods differ by the dimension, period and amplitude of the oscillations.

- The Persoz test measures the time taken for the amplitude of oscillation to decrease from 12° to 4°.
- The König from 6° to 3°.

Hence the König will take approximately half the time to test the same sample as the Persoz.

Available in 3 Models : Persoz, König, and Persoz & König combined.

Standard equipment includes:

- Hood to protect against draughts, fitted with a front door and a side opening to simplify sample handling.
- Practical system to facilitate sample tightening and loading of pendulum, with automatic release
- Maximum sample dimensions: 200 x 100 x 15 mm (7.85 x 4.33 x 0.6”).
- Accurate, automatic counting by photoelectric cell.
- Digital display.

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:	
ASTM D 4366	BS 3900 E5
DIN 53157	ISO 1522
NBN T22-105	NF T 30 016

	PERSOZ Method Stainless steel pendulum, weight 500g, fitted with 2 balls measuring 8mm diameter.	Oscillation Period	1 second
		Deflections	from 12° to 4°
		Damping Time on Glass	minimum 430 ± 10 second.
	KÖNIG Method Measuring 8mm diameter. Stainless steel pendulum, weight 200g, fitted with 2 balls measuring 5mm diameter.	Oscillation Period	1.4 seconds
		Deflections	6° to 3°
		Damping Time on Glass	250 ± 4.2 seconds
		2 Counting Methods	oscillations or time.
		Number of Oscillations	179 ± 3.

Model	Description	Part Number		
		UK 240V	EUR 220V	US 110V
Elcometer 3030/1	Elcometer 3030 Persoz Pendulum Hardness Tester	K0UK3030M002	K0003030M002	K0US3030M002
Elcometer 3040/2	Elcometer 3040 König Pendulum Hardness Tester	K0UK3040M002	K0003040M002	K0US3040M002
Elcometer 3034	Elcometer 3034 Persoz & König Pendulum Hardness Tester	K0UK3034M001	K0003034M001	K0US3034M001
Accessories	König Pendulum	KT003040P001		
	Persoz Pendulum	KT003030P001		
	Glass Calibration Shim	KT003045P009		

Related products



Elcometer 1535

During the development of a coating not only do a wide range of physical properties need to be measured, but also a large number of tests need to be carried out in order to establish the most appropriate coating for the specific requirement. Many of the tests can be done using this automated tester, including: St Andrews Cross, Cross Hatch Adhesion, Scratch Test & Coin Test.



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 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 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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