

## Elcometer 3000 Motorised Clemen Unit

The Elcometer 3000 Motorised Clemen Unit is a robust and accurate instrument for evaluating the resistance to scratching of a coated surface. The sample can be metal, wood, glass, plastic or other hard materials.

A tool is fitted with an hemispherical tip of 1mm (0.04") diameter (standard), lowered gradually on to the sample surface which is then pulled linearly 60mm (2.36").

As the sample is pulled the tool lowers automatically on to the sample, moves along the sample and gently rises up at the end of the stroke.

To ensure consistent, repeatable and reproduceable tests, the Motorised Clemen Unit automatically brings the tool gently in contact with the sample, moves across the coating and then lifts it with the automatic Start/Stop function. Depending on the load applied, varying degrees of penetration of the tool into the coating are observed - from a superficial trace to total destruction.

If the coating is completely removed during the test, the contact of the tool with the metallic substrate is indicated by a lamp and voltmeter indicator.

Elcometer offer a range of cutting tools, please see Accessories below.



### STANDARDS:

AS/NZS 1580.403.1, BS 3900-E2, DIN 53799, ECCA T12, EN 13523-12, ISO 1518-1:2011, JIS K 5600-5-5

### Technical Specification

Part Number	Description	Certificate
<b>K3000M003</b>	Elcometer 3000 Motorised Clemen Unit	○
Load Range	0 - 5kg (0 - 11lb)	
Sample Size	75 x 150mm (3 x 6")	
Sample Thickness	Standard: 0.5 - 3mm (0.02 - 0.12") Extended*: 5 - 20mm (0.2 - 0.8")	
Operating Temperature	5 to 40°C (41 to 104°F)	
Humidity Range	Not to exceed 80% relative humidity up to 31°C (88°F), decreasing linearly to 50% at 40°C (104°F).	
Dimensions	460 x 280 x 330mm (18 x 11 x 13")	
Weight	20kg (44lb)	
Packing List	Elcometer 3000 Motorised Clemen Unit, 1kg weight (x4), tungsten carbide ball tool; 1mm (0.04") mains leads (UK, EUR and US) and operating instructions.	

### Accessories

Part Number	Description
<b>KT003000P021</b>	Tungsten Carbide Ball Tool; 1mm (0.04")
<b>KT003000N001</b>	Tungsten Carbide Cutting Tool; 2mm (0.08")
<b>KT003000N015</b>	Adjustment Kit to test from 5 to 20mm (0.02 to 0.8")
<b>KT007210M001</b>	Illuminated Microscope (x30)
<b>KT003025P007</b>	Magnifier (x10)

○ Optional Calibration Certificate available.

\* Using the optional Adjustment Kit