

## Elcometer 2000 Muller Laboratory Grinder



*Elcometer 2000 Muller Grinder*

Can be used in accordance with:

ASTM D 2745  
ASTM D 332-B  
ASTM D 387  
ISO 787-16  
ISO 8780-5  
NF T30-227  
NF T31-210-5

The Elcometer 2000 is a particularly sturdy machine, enabling optimal and perfectly reproducible grinding and dispersion to be obtained in the laboratory. It has been designed to grind and disperse small amounts of raw materials for paint and varnish.

The machine consists of a frame holding 2 ground-glass plates, the lower of which is motor driven. A pre-set counter and a counter to register the total number of revolutions are included. One counts the number of revolutions and automatically stops the motor after a user defined number of revolutions, the other shows the total after each test cycle.

An amount of raw material is spread over a limited area of the lower glass plate. The mixture is ground in successive stages for example 50 revolutions each, at a pressure, of 445 N. Between each stage, the mixture should be redistributed within the limited area.

### Dispersion

From the development of coatings and inks in the laboratory to testing during the production process, quick and precise measurement of the particle size of the material - be it pigments or other similar materials - is one of the essential measurement techniques required for reliable and repeatable formulations.

Elcometer's stringent manufacturing standards ensure that the highest level of precision and quality is maintained for all its gauges in order to comply with the requirements of the industries where the grinding process is involved, particularly in the fields of wet paints and powder, varnishes, printing inks and cosmetics.

The Elcometer 2000 Muller Grinder is suitable to prepare dispersions for testing mass colour and tinting strength and preparing small samples for use in the quality control of pigments.

The Muller grinder consists of:

- Two conditioned ground glass plates with a diameter of 210mm (8")
- A system to provide an adjustable force to the plates, 50 - 1000N (11 - 225 lbf)
- A driven base plate with constant speed drive

The Muller grinder can be calibrated against production grinders.

TECHNICAL SPECIFICATION	
Speed of Rotation	UK/EUR (50Hz): 80rpm; UK/EUR (50Hz): 80rpm
Dimensions	380 x 540 x 500mm (15 x 21.3 x 19.7")
Weight	59.6kg (131lb)
Part Number	<div>K0UK2000M001 Elcometer 2000 Muller Laboratory Grinder, UK 240V</div> <div>K0002000M001 Elcometer 2000 Muller Laboratory Grinder, EUR 220V</div> <div>K0US2000M001 Elcometer 2000 Muller Laboratory Grinder, US 110V</div>
Packing List	Elcometer 2000 Muller Laboratory Grinder, 2 ground glass plates and operating instructions.
Accessories	Ground Glass Plates (2 pieces)

## Related Products



Elcometer 2041

### Elcometer 2020 & 2041 Fineness of Grind Gauges

These two channel gauges, together with the scrapers, are made of hardened stainless steel and have two grooves with a graded slope (dependent on the model chosen).



Elcometer 2050

### Elcometer 2050 High Precision Grindometer

This precision instrument is used to determine particle size and fineness of grind for many materials including paints, pigments, inks, coatings, chocolates and other similar products.



Elcometer 2070

### Elcometer 2070 NPIRI Fineness of Grind Gauge

This precision instrument is used to determine particle size and the fineness of grind of particles in printing inks. The NPIRI gauge and its scraper are made of hardened stainless steel and the gauge has two grooves with a gentle slope.

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