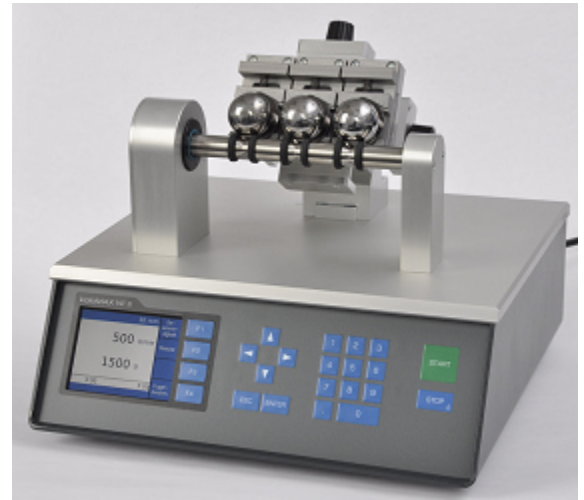


CALOTESTER kaloMAX NT II S3

The ball crater test (Calotest) is a well-established method for the determination of layer thickness. With a rotating steel ball and an abrasive slurry, a spherical cap is ground through the coating into the base material of the sample. When examined with a microscope, the layer/base material interface appears as a circle or, in case of a multilayer coating, a system of concentric circles. The layer thickness can be calculated from the diameters of these circles and the diameter of the grinding ball.



This purely geometrical method gives highly accurate results even for layer thicknesses in the range of micrometers

Evaluation and documentation can be further simplified by the software kaloSOFT and a camera-equipped microscope.

FEATURES

- Fast and easy layer thickness measurement
- Reproducible measurement of wear and scratching resistance
- Measurement of layer thickness
- Comfortable operation
- For quality assurance and coating development
- Suitable for hard coatings, lacquers, plastic coatings

TECHNICAL PARAMETER

Item	Parameter
Layer thicknesses	Approx. 0.3 – 30 µm
Diameter of the spherical cap	Approx. 0.1 – 2 mm
Measurement accuracy	1 – 5 % (dependent on surface roughness)
Ball diameter	15 – 30 mm
Clamping range for plane samples	50 mm
Clamping range for round samples	3 – 30 mm (clamping jaw for other dimensions on request)
Cross table travel	25 x 25 mm
Incline of sample level	60 degrees
LED displays (14 mm height)	4 digits number of revolutions, 4 digits runtime, 1 digit program number
Number or revolutions of the drive shaft	100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200 1/min
Running periods	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 80, 90, 100, 110, 120, 150, 180 s
Input voltage range	85 – 264 VAC
Input frequency range	47 – 63 Hz
Dimensions	300 x 295 x 235 mm (w / d / h)
Weight	Approx. 8 kg

DELIVERY SCOPE

- Calotester kaloMAX NT II with cross table
- Power supply
- Manual

ACCESSORIES

- Detachable vice
- Grinding paste of various granulation
- Various microscopes equipped with high resolution cameras
- Evaluation software kaloSOFT
- All-in-one solutions

