

Nano Scratch Tester

Category:

C. Particle Characterisation in and ex-situ

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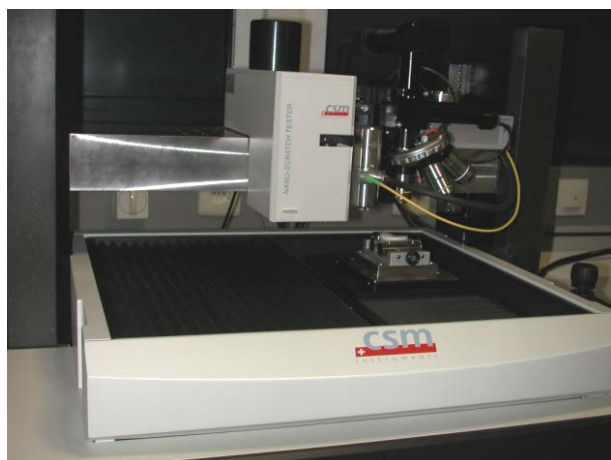
Short technology description

The Nano Scratch Tester (CSM) is specially suited to characterize practical adhesion failure of thin films and coatings, with a typical thickness below 800 nm. The Nano Scratch Tester can be used in the analysis of organic and inorganic; soft and hard coatings.

Main Features (Equipment Capabilities):

- load range High Load: 3mN – 1.5 N in increments of 1mN;
- load range High Resolution: 0.03mN – 12mN in increments of 0.01mN;
- loading modes : progressive, constant, incremental
- displacement velocity: 0.00 – 600 mm/min;
- test environment: air with controlled humidity.
- pre and post scan mode
- different indenters
- possibility to characterise scratch properties by AFM

Typical Samples & Images:



- Thin and multilayer PVD, CVD, PECVD, photoresist, paints lacquers
- Different types of films : optical, micro-electronic, protective, decorative and other applications
- Substrates can be hard or soft, including metal alloys, semiconductors, glass, refractive and organic materials

Any further Information: