NanoScan

SCANNING NANOMECHANICAL INSTRUMENT SERIES

NanoScan-1D Nanoindentation Tester

Quantitative Instrumented Nanoindentation, Electrical properties in a Basic Affordable package.

Measurement Modes

- Instrumented Nanoindentation testing according to ISO14577
- Measuring Current during instrumented nanoindentation and nanoscratch-test
- Measuring C-V curves at the predefined normal load/indentation penetration of the nanoindenter

Samples stage specification

- Maximum space for samples: 50mm x 50mm x 20mm (please inquire for larger platforms)
- Maximum weight of samples: 200 kg
- Sample positioning : 100mm (motorized 1-axis)

Measuring Head specifications

- Peak load for low-range sensor: 30—100 mN
- Peak load for high-range sensor : 3N
- Maximum indentation displacement: 50um, up to 250um upon request

Software

- Full set of software necessary for device setup and operation, as well as data acquisition and analysis.
- User manual

Accessories

- Probe sensor with mounted diamond indenter (2 pcs.)
- Hardness reference block (fused quartz)

PC workstation

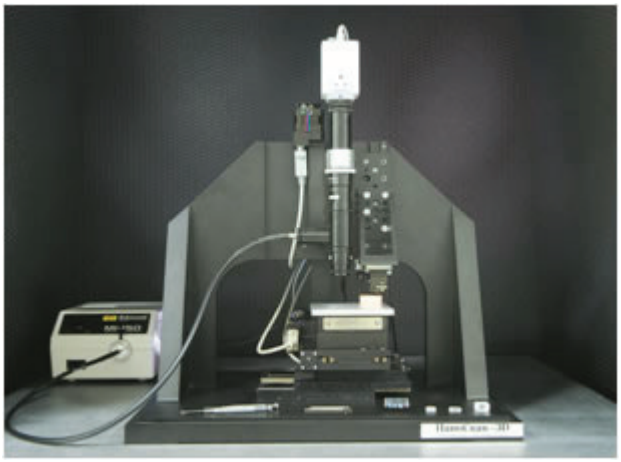
- IBM compatible personal computer.
- Operating system: Windows 7
- LCD display

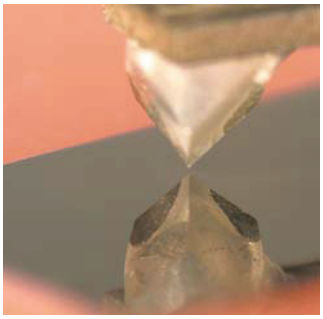
Electronics

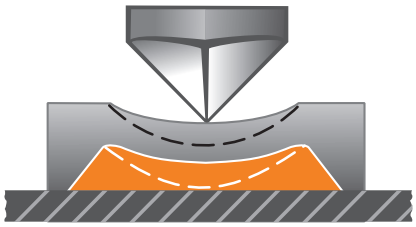
- Interface to PC: USB 2.0 or Ethernet compatible

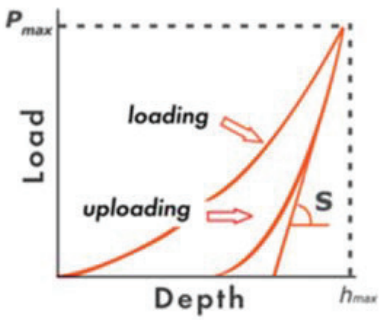
Acoustic enclosure

- Outside dimensions: 450mm x 400mm x 450mm
- Inside dimensions: 370mm x 310mm x 400mm
- Passive from noise and thermal effects









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linking technologists with technology

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