



# CSM INSTRUMENTS

## TTX - NHT

Table Top Nanoindentation Tester

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The CSM Table Top Instrument combines all the advantages of the standard Nanoindentation Tester (NHT) into a small and easy-to-use instrument which is ideally suited to routine nanoindentation testing where a full platform system may not be appropriate or necessary.

The Table Top instrument has the advantage of being extremely compact and specifically designed for mechanical hardness testing. It can be configured with different motorized or manual tables in order to match restricted budgets. The Table Top instrument therefore provides a cost-effective solution, whilst maintaining the great technical features of the original CSM nanoindentation technique.

The nanoindentation head offers the same high performance as the standard Nanoindentation Tester (NHT) head. It is also upgradable with optional technical features like the Sinus mode (Dynamic Mechanical Analysis: storage and loss moduli) and can be optionally configured with a range of displacement stages and/or an integrated video microscope.



# //// TABLE TOP NANOINDENTATION TESTER TTX - NHT

## //// Specifications

- Maximum Load : 500 mN
- Load Resolution : 0.04  $\mu$ N
- Maximum Depth : 200  $\mu$ m
- Depth Resolution : 0.04 nm

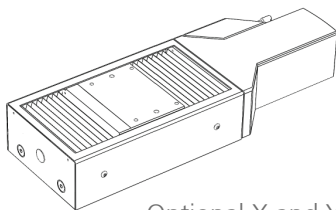
The TTX consists of the most sophisticated nanoindentation system where all testing modes of nanoindentation are available. Indeed, it offers all the following testing modes:

- Simple indentation
- Advanced indentation
- Progressive multi cycles
- Continuous multi cycles (CMC)
- User-defined sequence
- Sinus mode (optional)

The Table Top Nanoindentation Tester version includes a control unit, a separate Windows XP-based PC and a dual 17" LCD monitor with an acquisition card.

## //// Contact us for a free demonstration

- > E-mail : [info@csm-instruments.com](mailto:info@csm-instruments.com)
- > Phone : +41 32 557 5600



Optional X and Y motorized tables

## //// Options

### > Optical Video Microscope

An optical microscope with high quality objectives and video software is available.

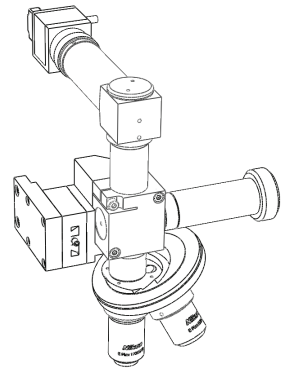
### > X and Y automated tables

A large range of motorized X and Y tables can be added to customize your instrument.

With this XY option, a matrix of nano-indentation tests can be conducted to quickly provide averaged values to ISO and ASTM standards.

### > Anti-vibration table

An anti-vibration table is highly recommended for very low loads in order to obtain smooth data.



Optional video microscope

