



FULLY AUTOMATIC HARDNESS TESTER: OPTICAL QUALITY, RELIABILITY AND PRECISION





The HZ50-4 hardness tester is instantly recognizable. 100% made in France, its original design along with its robustness and highly technical capacities make it an essential work tool.







Fully automatic hardness tester.

7 position turret, equipped with 4 lenses, 2 indenters, and 1 touch probe.

High rigidity of the chassis for a perfect load application.

Large work space with a major vertical extension.

2 LED lighting system for micro and macroscopy use.



2 load cells 10g to 50kg loads. 2 cameras for macroscopic colored view, and microscopic black & white analysis.

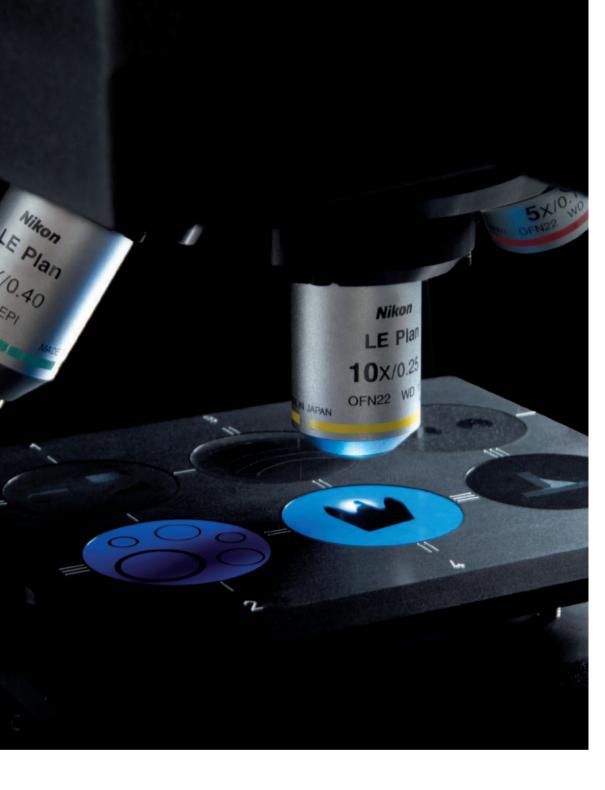




Exclusive feature: two dimension detection with sample holder.

Motorized marble stage.





Silent operation.

NIKON objectives, for a magnification up to 2000x.





Ergonomic joystick with customizable sensitivity.

Exclusively USB connected.





# PRESI TOUCH

Intuitive software with a graphic menu.

100% customizable interface.

Permanent overall view of the results and data.

Built-in search engine.

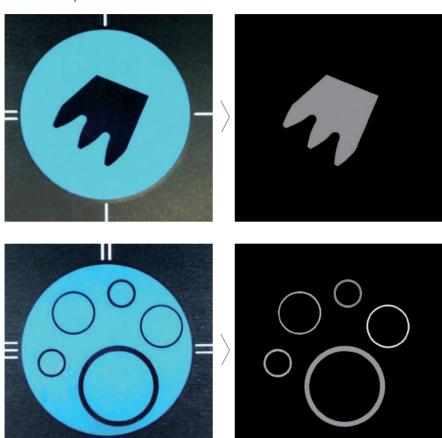
Automatic or manual indent measurement.

Single indent, regular or irregular pattern mapping.

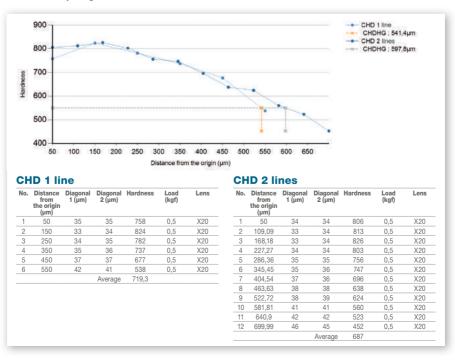


# PRESI TOUCH

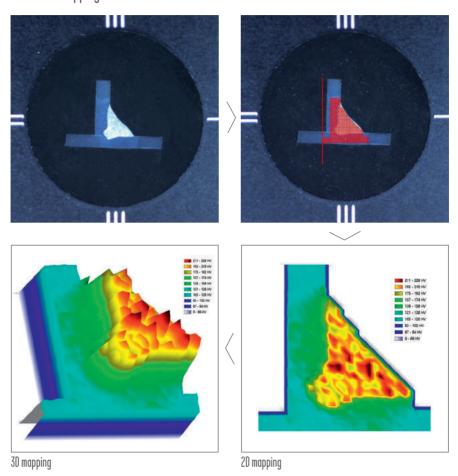
# Automatic sample detection.



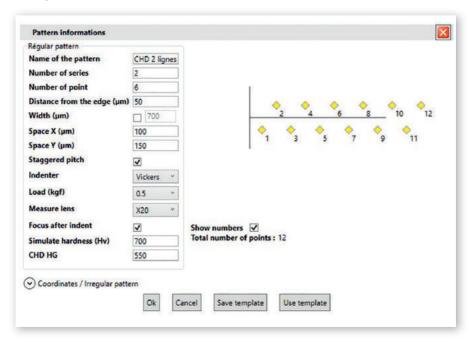
## Automatic report generator.



## Automatic Mapping feature.



Visual pattern construction, settings assistant and live view.



# PRESI TOUCH

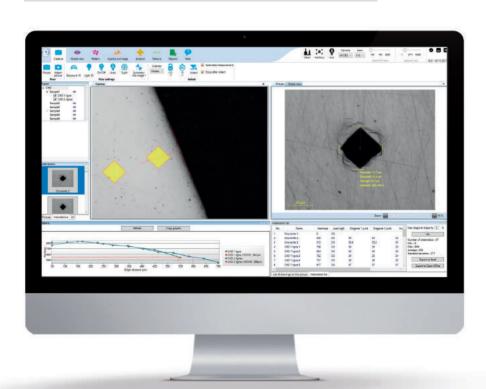
#### **Software**

| Version          | Full automatic           |
|------------------|--------------------------|
| Operating system | Windows 7, 8 & 10 64 bit |

#### **Controls**

| Automatic XYZ movement               |  |
|--------------------------------------|--|
| XYZ joystick movement                |  |
| Manual joystick sensitivity control  |  |
| Automatic Z focus                    |  |
| Automatic and manual light intensity |  |

| Features   |
|--|
| Various measuring tools                                  |
| Automatic and manual measurements                        |
| Automatic and manual mapping                             |
| Single indentation                                       |
| Pattern/structure indentations (create, save and reopen) |
| Irregular pattern  |
| Macroscopic view picture                                 |
| Microscopic/Macroscopic mosaic picture                   |
| Automatic load selection                                 |
| Automatic multi sample detection                         |
| Heat treatment feature (CHD)                             |
| Integrated search engine                                 |
| Automatic report generator                               |
| Report extraction (PDF, MS Excel, Open Office)           |





## **Load application**

| Test load range    | From 10gf to 50kgf |
|--------------------|--------------------|
| Scales             | Vickers, Knoop     |
| Test load accuracy | <1%                |
| Dwell time         | 1 - 999 seconds    |
|                    |                    |

### **Turret**

| Load cells              | 2  |
|-------------------------|--|
| Touch sensor            | 1  |
| Objectives              | 4  |
| Magnification           | 200x to 2000x  |
| Cameras                 | 1 macroscopic view, color<br>1 microscopic view, black and white |
| Light source            | LED  |
| Z axis travel           | 250mm with stage   |
| Z axis feeding accuracy | 0,05µm   |
|                         |  |

## Stage

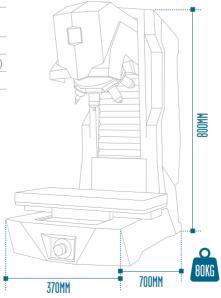
| Material               | Marble      |
|------------------------|-------------|
| Dimensions             | 420 x 210mm |
| X axis travel          | 200mm       |
| Y axis travel          | 180mm       |
| Stage feeding accuracy | 1µm         |
| Max. work piece weight | 80kg        |
|                        |             |

### General

| Power               | 220W                             |
|---------------------|----------------------------------|
| Ports               | 3 USB                            |
| Standard compliance | ISO 6507 & 4545; ASTM E384 & E92 |

### **Accessories**

| Sample holder for non mounted sample |
|--------------------------------------|
| Sample holder single place           |
| Sample holder multi place (4 or 6)   |
| Test blocs                           |



BE PRECISE.

