WIKI 200 JS

Vickers, Brinell, Knoop

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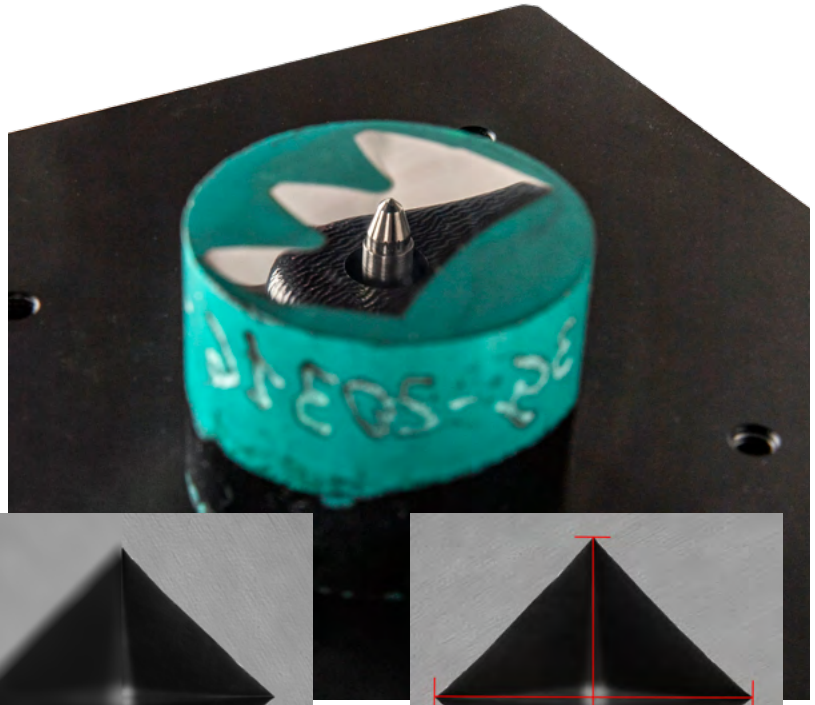
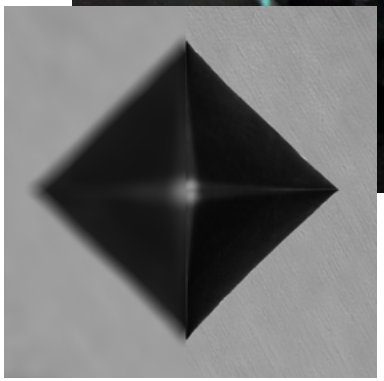
AFFRI

THE MASTER OF IMAGES ALWAYS CLEAR AT 360°

The first in the world to develop this technology and improve it beyond all expectations and still unrivaled.
We apply the same technology adopted for the manufacture of reference sample machines in primary laboratories.
Our continuous research and development offers the most modern scientific solutions for viewing and analyzing images without shadows or reflections on the vertices of the high contrast impression for Brinell, Vickers and Knoop measurements. The combination of different lighting methods with sophisticated algorithms achieve the perfection of measurement analysis with an accuracy of 0.0001 mm 10 times higher than normal standards.

The 360 ° with 1 Millisecond of feedback offers absolute precision measurements even on light surfaces and soft metals.
The exclusive Affri technology for the lighting control. with infinite values combined with exclusive design lenses with infinite magnification and definition, are managed with intelligent software with a reactivity lower than 1 KHz (1 millisecond), they allow to obtain super sharp images and of precise measurement in any visual and surface conditions, both small impressions and on soft materials. Infinite pixel camera to choose from 1.3 Mp to 20 Mp and beyond according to the evolution of science up to infinite values and infinite colors for images of absolute sharpness.





AUTO-FOCUS

AUTO-READING

MOTORIZED HEAD

Up to 300 mm electronically controlled height capacity for fast or slow vertical movements.Very rapid and ultra-sensitive drive for a perfectly accurate autofocus. The autofocus combined with the automation of the whole software avoids human influence and gives repeatability even when used by different people.

AUTOMATIC READING AND MEASURING

Just push the start button and the head performs the test cycle in automatic succession without breaching a phase:

1. Automatic contact with the specimen
2. Automatic following of every predefined pattern and performing of each indentation, no matter the amount
3. Automatic focus and reading for single or multiindentation

The entire test cycle is complete and the results are listed along with the indentation image, statistics and CHD charts.

6 SLOTS ROTATING TURRET

Horizontally rotating turret with four slots for magnification lenses and two for indenters.
All optical microscope objectives can be pre-installed and combined with indenters for every Vickers and Knoop hardness scales.

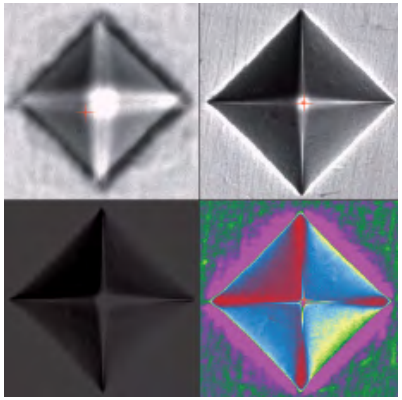
Optical objectives selection of 2.5x – 5x – 10x – 20x – 40x – 50x – 100x.

AFFRI®

ONE BUTTON MEASUREMENTS

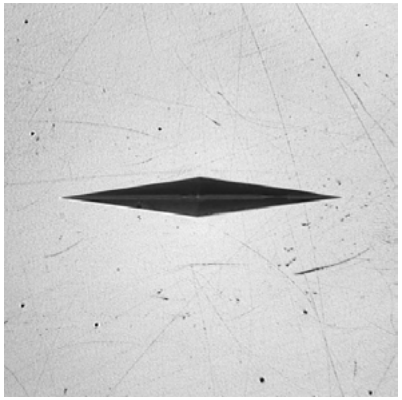
It's possible to program test cycles for just one indentation or for a complex pattern. WIKI JS will operate completely safely and automatically without the intervention of any operators.
Time and costs are drastically reduced giving you only advantages.

IMAGE AUTO-ANALISYS

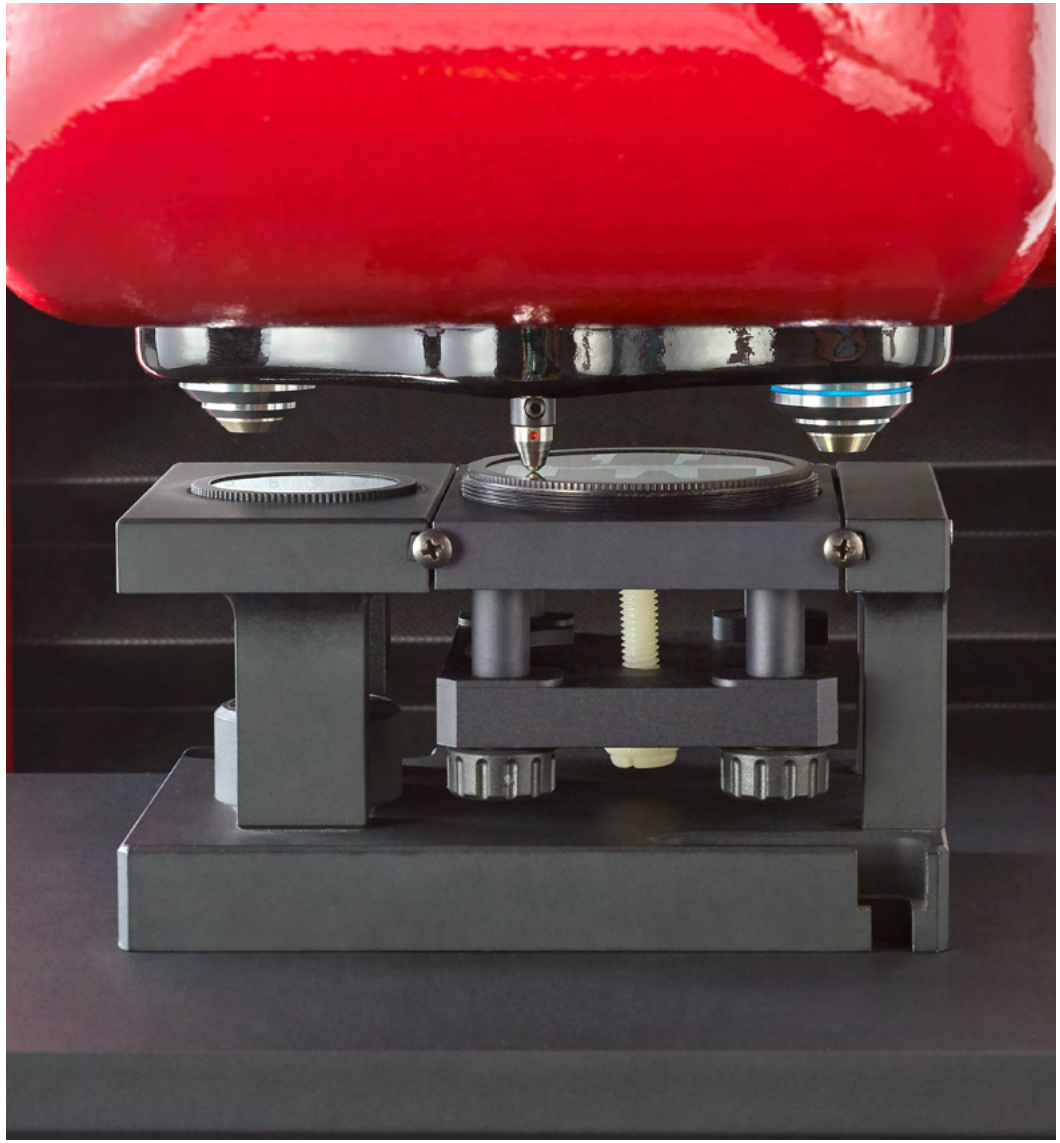


With software controlled focus, image cleaning, shading correction and regulated light source, reproducible results are obtained regardless of the number of indents measured. From perfectly polished to rough and etched samples, the auto-detection capabilities of WIKI 90 allow measurements on a variety of sample surfaces.

OPTIONAL TESTS

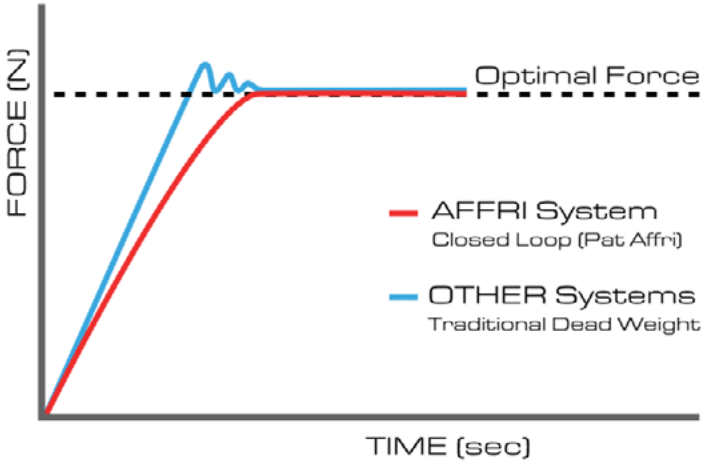


The hardness tester can be upgraded with Knoop, Brinell and Rockwell test methods. Thanks to the double indenter turret it is possible to use two different indenters and mix multi-scale patterns.



INDENTER WITH LARGE STROKE

WIKI JS is able to make indentations also on specimens of different heights and on inclined planes.
It follows the specimen shape with extreme precision reducing any leveling problems and without the need for initial focusing.



LOAD CELL TECHNOLOGY SINCE 1974

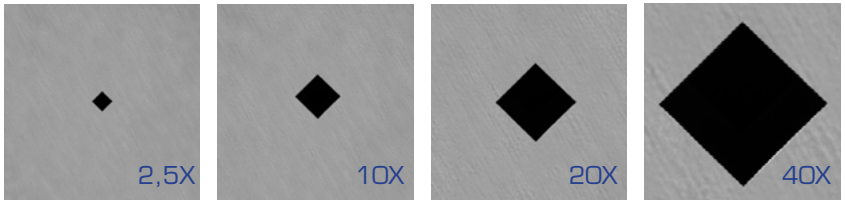
The forces are fully controlled by load cells in Closed Loop (Pat. AFFRI) allowing perfect accuracy in any condition (also with loads from 0,098 N). Forces are managed in absense of inertia to guarantee precision better than 0,8% on the lowest load.
WIKI 200 doesn't need to be leveled on a horizontal plane because its measurements and results are alway perfect even if in bad conditions.

JS SOFTWARE

The AFFRI Vickers measuring software has been studied to fulfill any client need and to be accessible to every operator.
This smart software results extremely easy to be used and can be customized to display only needed testing procedures.

MAGNIFICATION

Real magnification thanks to the motorized turret, different lenses can be selected with a simple click. Digital zoom is also available.

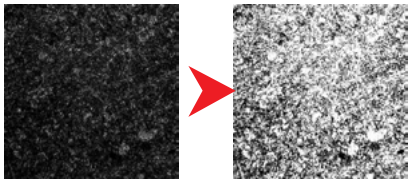


TEST METHOD SELECTION

Only one window for the selection of everything you need for the test.

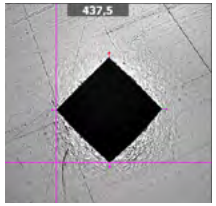
AUTO-LIGHTING

Automatic light regulation on any surface.



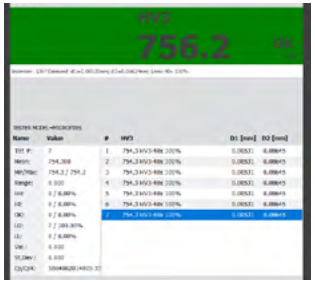
MANUAL MEASURE

Manual indent evaluation.



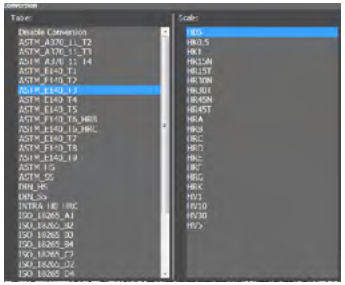
DYNAMIC RESULTS

Color highlighted results and live statistics.
Watch result list and edit or modify single tests.



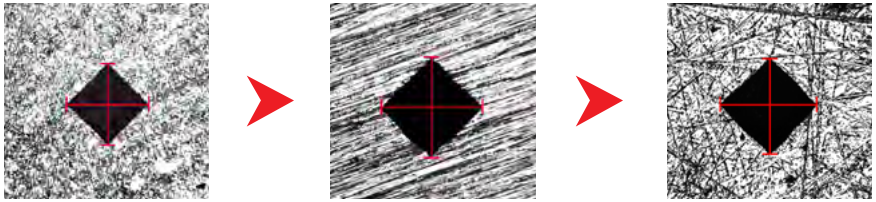
AUTOMATIC CONVERSION

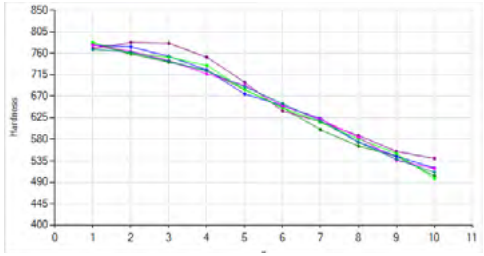
From standards to hardness scale.



MEASURE ON CRITICAL SURFACES

From perfectly polished to rough e etched samples, the software will automatically measure indents on any sample surface.



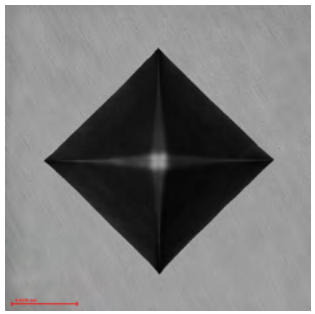


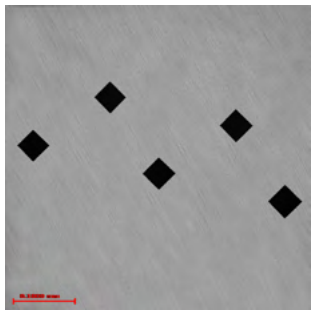
LIVE GRAPHS

Choose between 4 graphs.
Print results from template or save and import test cycles from archive.

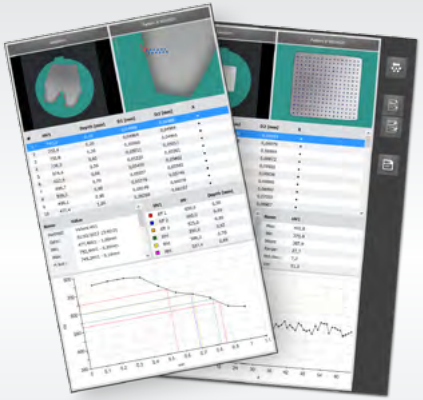
SMART PATTERNS

The patterns can be configured as you want through XY manually controled. The double check of the position of test block and indentation is made as manually as automatically by our software. Indentations and measurements are always perfect. Patterns can be squared or round as customer needs and he can check the entire test-cycle in data chronology and export data in a statistic schedule. With WIKI 90 JS make many perfect measurements becomes easy and quick.





SMART FUNCTIONS



Direct conversion in HR, HB, HK and any other hardness scale.

Print results from template or save/import tests cycles from archive.

Customizable test report with client logo, specimen information, statistics and graphs or export as CSV file.

DIRECT CONNECTION OF RESULTS ON SMART SCREEN

- Clean vision of the indentation.
- Get real and detailed images of each sample.
- Visual control of each sample and patterns.

- Visual control of all results and live statistics.
- Patterns/traverses can be rapidly crated using templates.
- See a list of each sample and each pattern.
  Save or import traverses, edit, move, copy and paste.

ACCESSORIES

Affri provides a large variety of accessories to fulfill any purpose of test.
Customized solution based on your needs can be made for perfect tests on rough pieces.
A series of different anvils is available to test every size of test piece. Variety of accessories to facilitate testing on small or oddly shaped items.
All AFFRI's accessories are customizable according to customers specifications, depending on dimensions and geometry of the samples and finished products.

TEST DATA IMPORT AND EXPORT

Data enter via code bar scanning. Test cycles or sample drawings can be loaded directly from a central system by means of a bar code scanner. This hardness tester gets all informations fully automatically. After test run the bar code datas are added with results and immediatelly returned to the order management system.
File import and export is configurable freely and therfor adaptable individually.

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