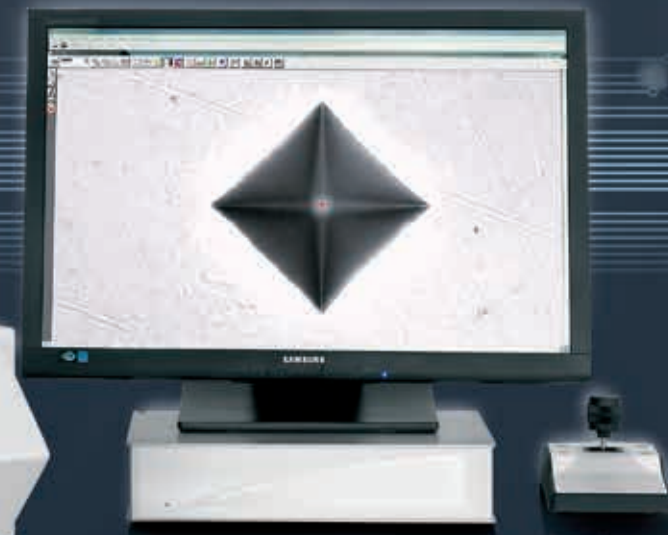


WIKIJS



AFFRI

MOTORIZED VERTICAL FOCUS DRIVE

Very rapid focus drive ultra-sensitive
to perfect focus.
Software controlled to a maximum
capacity of 300 mm vertical range.

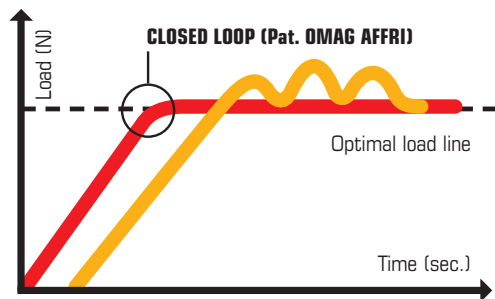




AUTOMATIC MOTORIZED TURRET

All optical microscope objectives can be pre-installed and combined with indenters for Vickers, Knoop, Brinell & Rockwell scales.

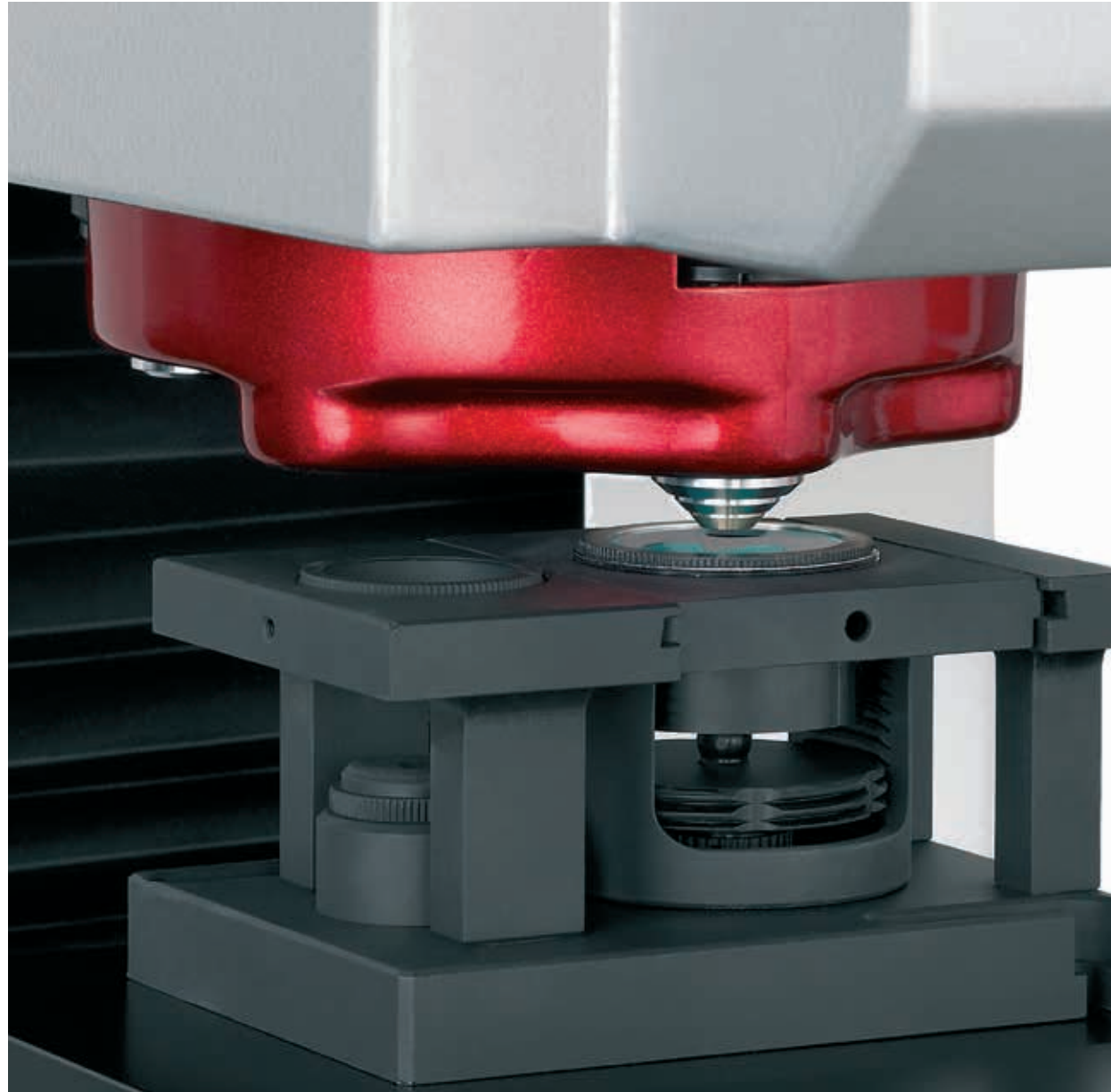
Optical objectives selection of 2.5x – 5x – 10x – 40x – 50x – 100x.



The load forces are generated entirely with a motorized closed loop load cell, to ensure perfect and incomparable precision covering a range as low as 0.098N (10 gm). Precision guaranteed better than 0.8% of load factor.

The Hardness Tester does not require to be perfectly levelled for high precision results.

Complete protection of mechanical damage to the indenter and optical microscope objectives.





The Wiki JS will accommodate multiple samples of various size and shape, irrespective of their preparation quality. Multiple or Single indentation profiles can be performed per sample. Multiple focus intervals can also be programmed per profile pattern. Test block position can also be programmed for accuracy, auto-validation on an auto-timer or on operator demand. Always insuring good accuracy and precision.

WIKIJS

INTERCHANGEABLE SPECIMEN STAGES

A055.0.001

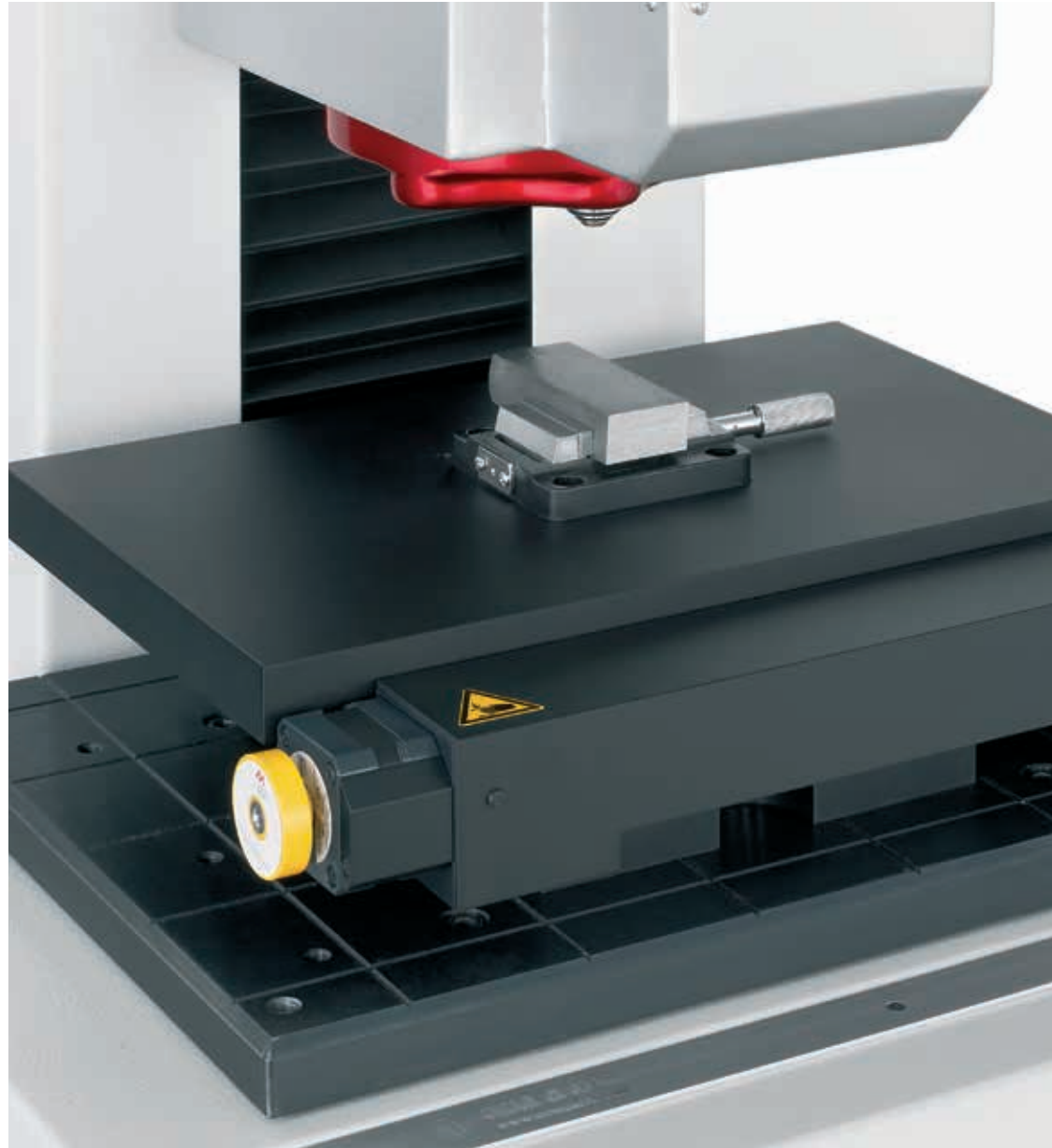
Motorized stage CMT 200 x 100 mm,
total travel area 198 x 98 mm, accuracy 0.05 μ m.

A055.0.002

Motorized stage CMT 150 x 150 mm,
total travel area 98 x 48 mm, accuracy 0.05 μ m.

A009.0.001

Manual XY stage 100 x 100 mm,
total travel area 25 x 25 mm, accuracy 0.01 mm.





A055.0.003



A055.0.006



A049.1.001



A009.0.001

SPECIMEN HOLDERS

Multiple or single specimen holders. Variable diameter mounts. Self-levelling feature. Spaces for calibration test block mounting.

A055.0.003

Multiple specimen holders
Specify diameter size 25, 32, 40 mm etc.

A055.0.006

Single specimen holder
Specify diameter size 25, 32, 40 mm etc.
Plus calibration test block

A049.1.001

Universal vise opening
0 to 50 mm.

A009.0.001

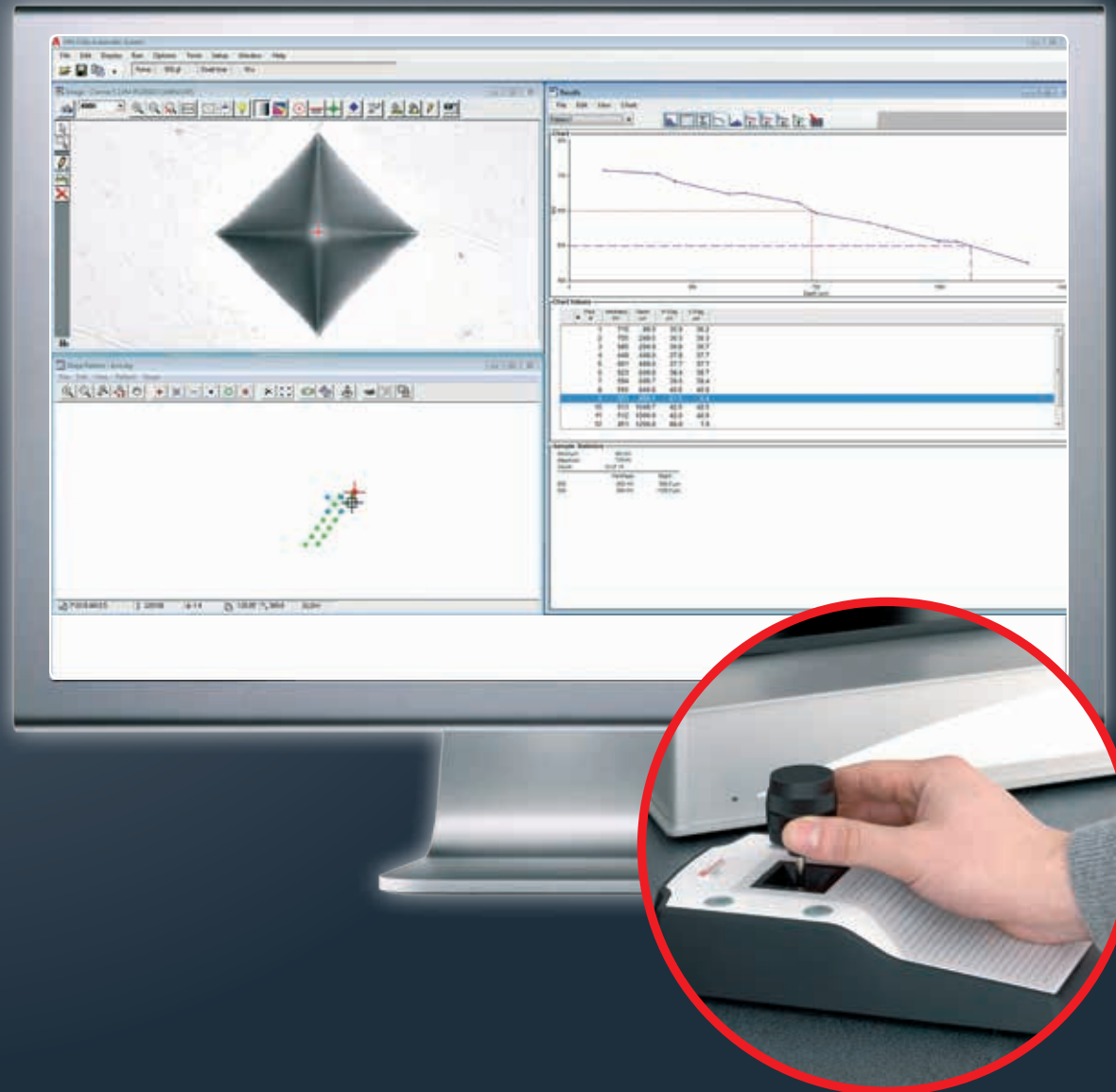
XY manual stage
100 x 100 mm surface.
Movement of 25 x 25 mm.
Accuracy 0.01 mm.

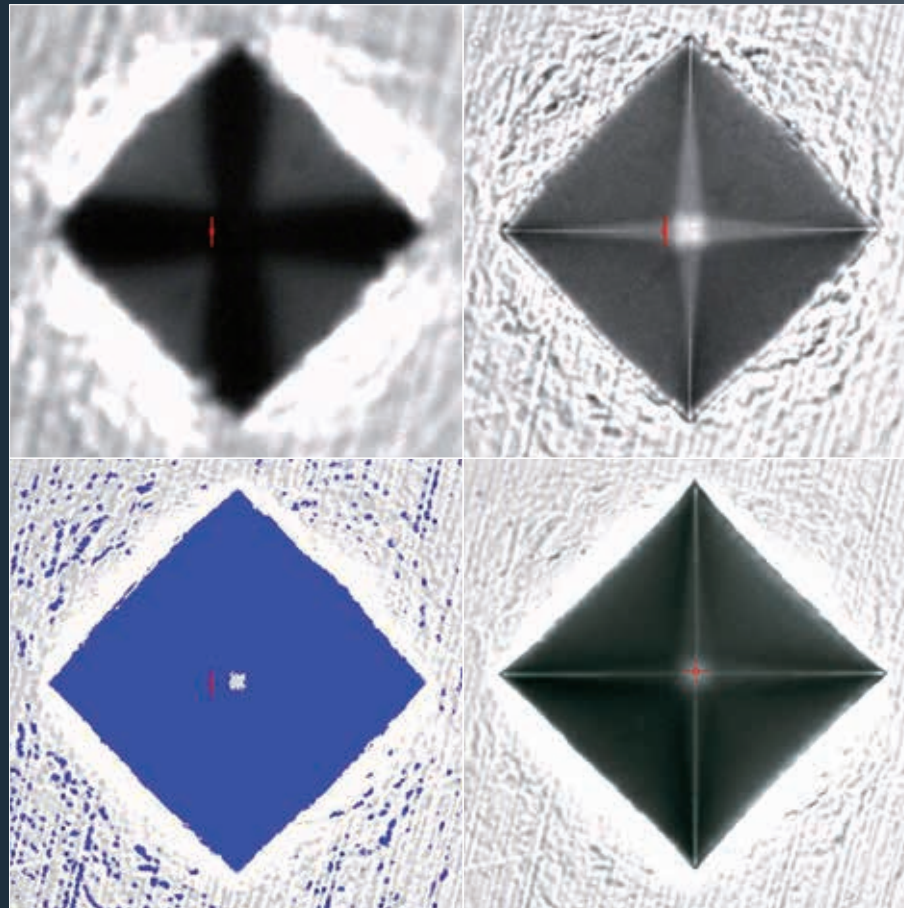
SOFTWARE

All aspects of analysis are controlled.

1. Live image.
2. Auto-stage window to view profile map.
3. Chd graph with individual hardness measurements and depth.

Simple user friendly interface and joystick controller.





AUTOMATIC VICKERS MEASUREMENTS

Auto- focusing of image. Ability to auto-sharpen image prior to measurement.

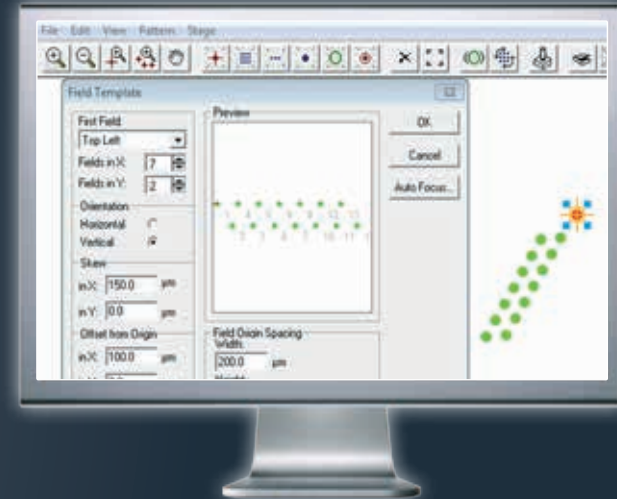
Ability to auto-measure etched specimens.

Sample background separated from indentation image.

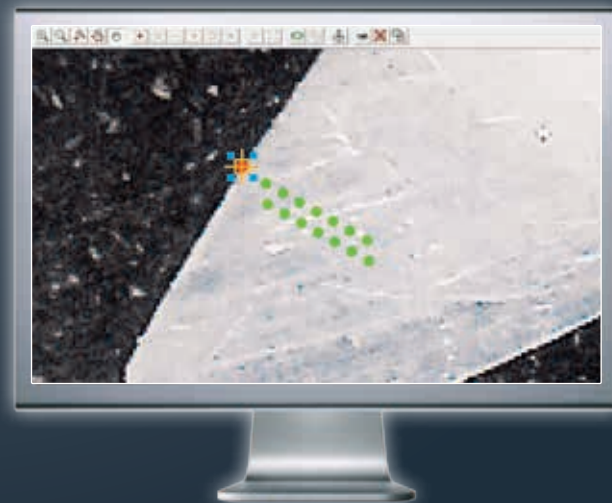
High definition usb-2 camera for superior quality image.



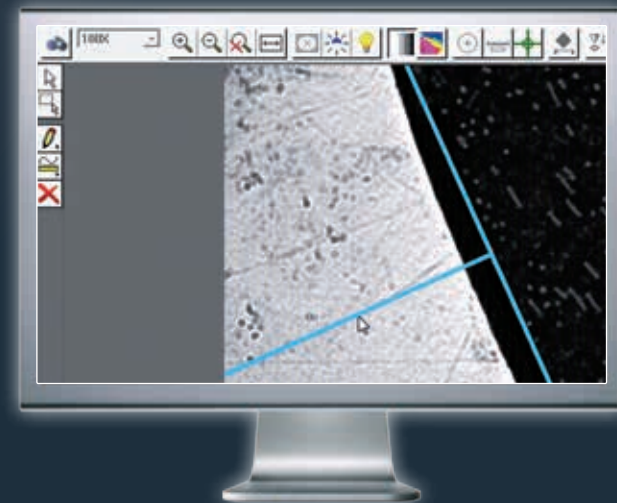
Able to scan complete specimen holder into stage window for macro viewing and positioning of indentation profile map for each specimen independently.



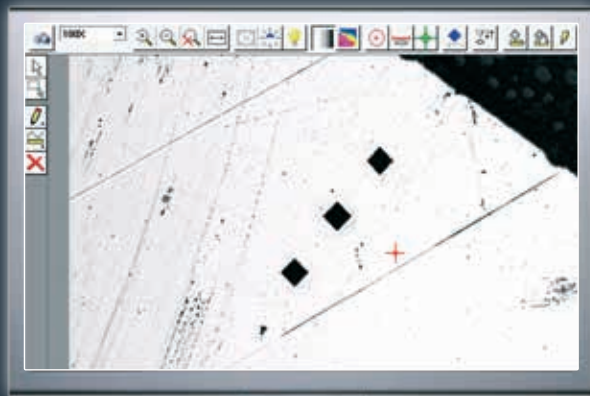
Multiple map view of individual profile indentation map by specimen, single or multiple profiles.



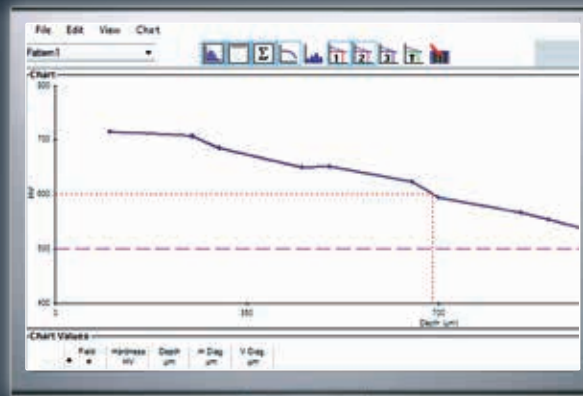
Indentation profile can be viewed and superimposed on sample image in stage window.



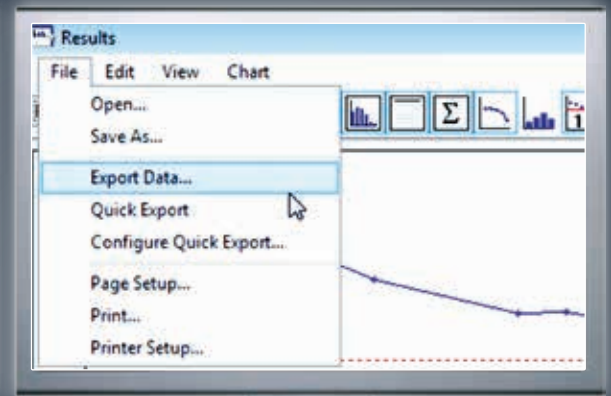
Rotation tool to initialize the indentation profile in the correct direction regardless of sample orientation.



Ability to recall and revisit the individual indentations from the result. Conversion table for HRC-HRN-HB scale in compliance with ASTM E-140 Standard.



Case Depths are calculated automatically by selecting a case hardness value. A total of 4 Case Depths can be displayed simultaneously on the same graph.



Results can be exported in many different formats to Microsoft Excel, Word or others via USB, Bluetooth or Ethernet connections.



Real Time Support. Connect your Wiki JS to the Internet and we can remotely diagnose any technical issues, provide additional operator training, and update software version. Connect to www.affri.com for more details.

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Technical features	Wiki 200 JS	Wiki 200 JS 2	Wiki 200 JS3	Wiki 100 JS	Wiki 100 JS 2	Wiki 100 JS 3	Wiki 200 JS4
Operation	automatic						
Turret	automatic – 6 positions						
Objective	2.5x – 5x – 10x – 20x – 40x – 50x – 100x						50x
Auto focus	automatic			manual			
Loads	10 gr to 10 kg	10 gr to 50 kg	0,1 to 30 kg	10 gr to 10 kg	10 gr to 50 kg	0.1 to 30 kg	15 to 150 kg
Height capacity	300 mm – automatic						
Depth capacity	135 mm						
Dimension of base	250 x 300 mm						
Motorized tables	X Y 150 x 150 mm 200 x 100 mm			manual 100 x 100 mm			X Y 100 x 100 mm 200 x 100 mm
Table resolution	0.5 µm	0.5 µm	0.5 µm	0.01 mm	0.01 mm	0.01 mm	0,5 µm
CCD camera	1.3 Mega Pixel USB2 B/W HD						
Software	Windows PC HD						
Power supply	115 – 240 VAC 50/60 HZ						
Accuracy	Vickers – Brinell – Knoop, DIN EN ISO 6507, 6506, ISO-4545, ASTM-E92 ASTM-384, JIS-Z231						Rockwell ASTM E18 ISO 6508
Indenters	Vickers - Knoop						
Protection from sample collision	Patented anti-collision system to protect optical objectives and indenters						
Lighting	LED						
Resolution	0.1 HV – 0.1 HB						
Start	automatic						
Forces control	load cells and closed loop						
Data output	USB – BT – RS 232 C – Ethernet						
Net weight	160 kg						
Conformity	CE						
Country of origin	designed and manufactured in Italy						
Load forces	0.1 - 0.3 - 0.5 - 1 - 2 - 3 - 5 - 6.25 - 10 - 15 - 15.6 - 20 - 25 - 30 kgF 1.961 - 2.942 - 4.905 - 9.81 - 19.61 - 29.4 - 49.05 - 61.3 - 98.1 - 147.1 - 153 - 196.1- 245.2 - 294.3 – N						150 - 100 - 60 - 45 - 30 -15 kg
	10 - 20 - 25 - 30 - 50 - 100 - 200 - 300 - 500 g - 1 - 2 - 3 - 5 - 10 kgF 0.098 - 0.196 - 0.245 - 0.294 - 0.49 - 0.981 - 1.962 - 2.942 - 4.905 - 9.81 - 19.62 - 29.43 - 49.05 - 98.1 N						
	10 - 20 -25 - 30 - 50 - 100 - 200 - 300 - 500 g - 1 kgF - 2 kgF - 3 kgF - 5 kgF - 10 kgF - 15 kgF - 15.625 kgF - 20 kgF - 25 kgF - 30 kgF - 31.25 kgF - 50 kgF						
	0.098 - 0.196 - 0.245 - 0.294 - 0.49 - 0.981 - 1.962 - 2.942 - 4.905 - 9.81 - 19.62 - 29.43 - 49.05 - 98.1 - 147.1 - 153 - 196.1 - 245.2 - 294.3 - 306.5 - 409.5 N						