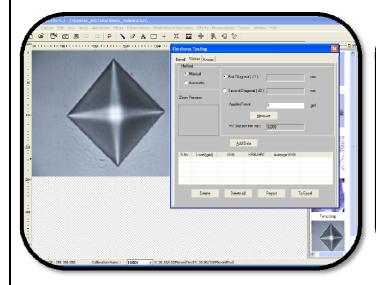
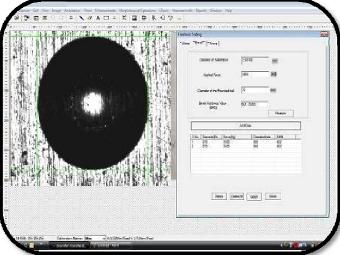


Computerized Brinell / Vickers / Knoop Hardness Measurement software





OVERVIEW:

- The Hardness Pro software is exactly what your lab needs to measure your Brinell, Vickers or Knoop Indentations, The software is designed to increase productivity & efficiency to avoid any user error.
- The easy to use hardness testing system steps you through the entire process & then combines the results into a report.
- The software is also integrated with Microsoft Excel to create powerful spreadsheets with just a click of mouse.
- Hardness pro easily retrofits to most microhardness testers & Universal Hardness Testers.
- This software automatically detects any camera connected to the computer, so you can use multiple machines with single software; this unique feature makes it one of its kind.

BRINELL HARDNESS:

- In Brinell hardness test, an indentation hardness test in which a hard metal ball is is forced into the surface of a test piece, mean diameter of the indentation is left on the surface after removal of the test force is measured.
- The Brinell hardness HBW is obtained by software.

VERTEX ENGINEERS & ASSOCIATES

R.H- 116, Sector 2B, Near Datta Meghe Engineering College, Airoli, Navi Mumbai - 400 708
Tel: +91 22 27791675 / 65169832. Email: info@vertexmachines.com, Visit us at - www.vertexmachines.com



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VICKERS HARDNESS:

- The Vickers hardness test, measure length of the diagonals of indentation left in the surface in which a Square-based diamond pyramid, having an angle of 136 degree between the opposite faces at the vertex, is forced.
- The Vickers hardness is obtained by dividing the test force by the area of the sloping faces of the indentation.
- The Vickers hardness HV is displayed by software.

KNOOP HARDNESS

- The Knoop hardness test is an indentation hardness test in which a rhombic based diamond pyramid, having an included longitudinal edge angle of 172.5 degree and an included transverse edge angle of 130 degree, is forced into the surface of a test piece.
- The length of the long diagonal of the indentation left in the surface after removal of the test force.
- The Knoop hardness HK is calculated by software.

The software has following features:

Automatic mode	Fully/ semi automatic mode
Manual mode	Pure manual operations
Calibration	To map real dimensions in mm to computer dimensions in pixels
Batch Mode	To create/delete/ update batches & customers
Statistics mode	Mean, median, maximum, minimum, frequency, distribution graph linearity graph of the readings taken in a batch.
Report generation	To generate reports specifying statistical analysis & graphs.
Table generation	For generating table of standard readings for quick reference
Camera control	To adjust the brightness / contrast of impression image
Lux guide	To check the uniformity of the illumination
Focus guide	For getting correct focusing of the impression
Case depth measurement	Effective case depth measurement and graph



Computerized Brinell / Vickers / Knoop Hardness Measurement software



TECHNICAL SPECIFICATION:

200g
2.0MP colour CMOS Camera
1/2color 2.0MP CMOS
3.2"ùmi X 3.2"ùm
400nm1000nm
1.0V/lux-sec@550nm
progress
ERS(Electronic rolling snap)
2048 X 1536
6f/s@2048 X 1536
Auto/Manual
Auto/Manual
USB2.0,480Mb/s
USB2.0
62dB
Image size,bright, gain,exposure time
Preview, static capture, video capture
0 c~50 C
High resolution microscope imaging
C/CS mount

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Tel: +91-22-27791675/65169832 Email: info@vertexmachines.com, Visit us at: www.vertexmachines.com