

Computerised MICROVICKERS HARDNESS TESTER

FIE Dealer | Accredited By NABL Call: 9970 600 965 / 61 Visit: www.genesissengineers.com

Email: genesissengineers@gmail.com

MODELS - MV-1 PC



'FIE' Computerised Microvickers Hardness Tester is a simple and accurate means to produce and automatically measure the diamond indentation to give micro hardness numbers directly. These testers are suitable for measuring the hardness of precision metallic parts with wide testing range - from soft to hard, and their accurate results are widely acclaimed. These testers strictly conform to IS:1754:2002 and ISO 6507-2:1997.

Construction:

The machine frame is designed to accommodate the high precision loading system. Specimen is clamped by vice or supported by proper fixtures. The test cycle is fully automatic. The accurate load is applied on a diamond indentor by means of dead weights. After a lapse of time, the load is removed automatically. The image is digitilized using a CCD Camera fitted on the machine and is captured by the PC. The diagonals of the indentation are measured by the PC and the Micro Hardness number is displayed directly on monitor.

Features:

- Fully computerised (PC based) Micro Hardness Tester.
- Direct and accurate measurement of micro hardness number using "State of the art" image processing technology.
- Wide testing range: From soft metal such as lead up to hardest, like hardened steel.
- High accuracy and repeatability of measurement at all loads.
- Small size of indentation makes it a non destructive testing on finished components.

- Load selection by external knob.
- Motorised loading and unloading cycle.
- Small loads allow testing of thin sheet metals.
- Advanced Window 98 based software:
 - Latest GUI features with user friendly software.
 - On line indentation setting and focusing on PC monitor.
 - Advanced image processing : Algorithms implemented for precise calculations of hardness numbers with various options to cover all ranges of specimen.
 - Batch file processing: Option for data / storage and reports generation for case depth analysis etc.
 - Statistical Evaluation : Software for calculating standard deviation, mean, medium, frequency distribution graph, variation graph etc.
 - Calibration mode facility.

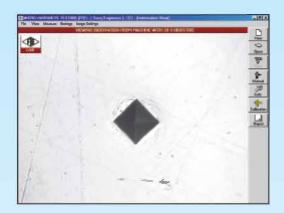
Scope of Supply:

- Basic machine with CCD Camera, optics with illumination system and connecting cable.
- PCI video capture card with driver software.
- PC and Windows operating system is procured by customer. Minimum Pentium II with 64mb RAM & Window 98/98SE operating system required.



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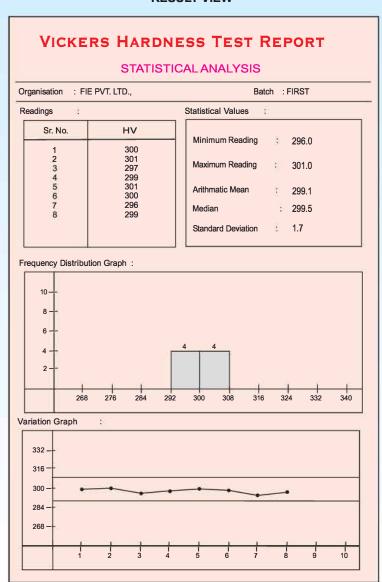
INDENTATION VIEW

Technical Data: Test Loads : 10, 20, 50, 100, 200, 300, 500 gf Maximum Test Height : 30mm with clamping vice 50mm without clamping vice Sample Stage (XY stage): 10mm movement in each axis with micrometer heads of 0.01 LC Clamping vice capacity : 40mm max. Scale least count : 0.0001 mm : L 450 x W 275 x H 535 mm (Approx) Machine dimension Weight (approx.) : 48 kgs. Measuring Range : 0.01 to 0.2 mm

Standard Accessories :	
Vickers Diamond Indentor 136 ⁰ pyramid	: 1 No.
Standard Test Block	: 1 No.
Spanners	: 1 Set
Supply Cord	: 1 No.
PC interface Cable	: 1 No.
Video Capture Card	: 1 No.
Microvicksys Software CD	: 1 No.
Instruction Manual	: 1 No.



RESULT VIEW



* PC & Printer is not in our standard scope of supply.



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