



# Computerised Vickers Hardness Tester

**Model :  
VM 50 PC**



## F E A T U R E S

- Fully Computerised (PC based) Vickers Hardness Machine.
- Direct & accurate measurement of Vickers Hardness number using "State of the art" image processing technology.
- Wide testing range: from soft metal up to hardest.
- High accuracy & repeatability of measurement at all loads.
- Faster measurement yielding to higher productivity.
- Small size of indentation makes it a non destructive testing on finished components.
- Motorsed loading and unloading cycle.
- Small loads allow testing of thin sheet metals.
- Advanced Window XP based software :  
**Latest GUI features :**
  - User friendly software with windows features.
  - Online indentation setting & focusing on PC monitor.
  - Advance image processing : Algorithms implemented for precise calculation of hardness numbers with various options to cover all ranges of specimen.
- **Batch file processing :** Option for Data, storage & reports generation.
- **Statistical Evaluation :** Software for calculating standard deviation, mean, median, histogram etc.
- Wide options In calibration mode.
  - Calibration/Verification on PC monitor makes easier to operate.



# COMPUTERISED VICKERS HARDNESS TESTER

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## SPECIFICATIONS :

'Aditya' Computerised Hardness Tester is a simple and accurate means to produce and automatically measure the diamond indentation to give Vickers hardness number. 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 confirm to IS 1754-2002.

## TECHNICAL DATA :

Total Loads	5,10,20,30,50 kgf.
Maximum test height (mm)	200
Scale least count (mm)	0.001
Diagonal measuring range (mm)	0.05 to 0.4
Throat Depth (mm)	135
Machine dimension (mm)	L 585 x W 290 x H 860
Weight (approx)	70 kg.
Power supply	220VAC, 50Hz, 1 Ph.

## PC REQUIREMENTS :

- Intel Pentium IV 2.00 GHz or above processor is recommended.
- Microsoft Windows 98SE or above (Recommended XP)
- System Ram : 128 MB or above (Recommended 256 MB)
- One RS232 (Serial) port.  
(PC not included in standard scope of supply)

## CONSTRUCTION :

The robust machine frame is designed to accommodate the high precision loading.

Specimen is placed on a testing table. The test cycle is fully automatic. The accurate load is applied on a diamond indenter by means of a lever and weights. After a specific lapse of a time the load is removed automatically. The image is digitized using a CCD camera fitted on the machine and is captured by the PC. The diagonals of the indentation are automatically measured by PC to give the Vickers Hardness Number.

## ACCESSORIES :

1. Standard Test Block	1 No.
2. Diamond indenter	1 No.
3. Weights	1 Set
4. Flat Anvil	1 No.
5. Vee-type anvil (Small & Big)	1 No. each
6. Spanners	1 Set
7. Electric Cord & PC interface cord.	1 No. each
8. Video Capture	1 No.
9. Vicksys software CD	1 No.
10. Instruction Manual	1 Book

Number of special accessories are available on request and as per special requirement.

Due to constant Research and Development, Specifications and Features are subject to change without notice.

MANUFACTURED BY :



## Aditya Instruments

*Mfg. of : Universal, Impact, Hardness, Electronic Testing M/c. & its Spares.*

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