



GENESS ENGINEERS

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Computerized (PC based) Vickers Hardness Machine: Model – VM 50 PC

Features:

- Computerized (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.
• Small size of indentation makes it a nondestructive testing on finished components.
• Motorized loading and unloading cycle.
• Small loads allow testing on thin sheet metals.
• Advanced Window based software

With 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.

Application:

Computerized Hardness Tester is a simple and accurate means to produce and automatically measure the diamond impression 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 1501-2:2013.

Technical Specifications:

Table with 2 columns: Specification and Value. Rows include Test Loads (5, 10, 20, 30, 50 kgf), Optional Test Load (1 kgf), Maximum test height (200 mm), Scale least count (0.001 mm), Diagonal measuring range (0.05 to 0.4 mm), Throat Depth (135 mm), Machine dimension (L 585 x W 290 x H 860 mm), Weight (70 kg), Power supply (220 VAC, 50 Hz, 1-Ph).



For Auto Turret Machine after clicking on cycle start button indexing mechanism will operate automatically & loading mechanism starts, once loading finishes again indexing mechanism will be positioned at measuring station.

* PC & Printer is not in our 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.

Standard Accessories:

Table with 2 columns: Accessory and Quantity. Rows include Standard Test Block (1 No.), Diamond indenter (1 No.), Weights (1 Set), Flat Anvil (1 No.), Vee-type anvil (1 No. each), Spanners (1 Set), Electric Cord & PC interface cord (1 No. each), USB device for Video (1 No.), Vicksys software CD (1 No.), Instruction Manual (1 Book).