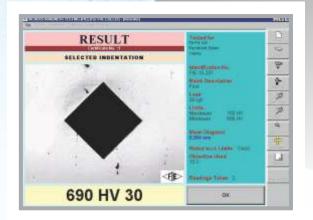
SELECTED INDENTATION



Parvell I

Over **60** years of consistent excellence



Computerized Vickers Hardness Testing Machine

Model: VM 50-PC



Wide Testing Range from Soft metal to medium hardness Steel.



High accuracy & repeatability of measurement at all loads.



Motorized Loading & unloading Cycle





Computerized Vickers Hardness Testing 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.
- Faster measurement yielding to higher productivity.
- Small size of indentation makes it a non destructive 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:

'FIE' 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:

| Test Loads | 5,10,20,30,50 kgf. |
|-------------------------------|----------------------|
| Optional Test Load | 1 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) | L585 x W 290 x H 860 |
| Weight (approx) | 70 kg. |
| Powersupply | 220 VAC, 50 Hz,1-Ph. |
| | |

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



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 positioned at measuring station.

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 ${\sf PC}$.

The diagonals of the indentation are automatically measured by PC to give the Vickers Hardness Number.

Standard Accessories:

| Standard Test Block | 1 No. |
|------------------------------------|------------|
| Diamond indenter | 1 No. |
| Weights | 1 Set |
| Flat Anvil | 1 No. |
| Vee-type anvil (Small & Big) | 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 |

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

Manufactured By:



Fuel Instruments & Engineers Pvt. Ltd. Sold And Serviced By: SUZUKI INSTRUMENTS

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