



## VICKERS HARDNESS TESTER VM 50-PC



### Introduction:

VERTEX' Computerised Vickers Hardness Tester is a simple and accurate means to produce and measure the diamond indentation. The Indentation can be measured by Auto measure option given in Software there are four options to measure indentation No. 1) Remote Auto 2) Auto 3) Semi Auto 4) Manual measurement

Manufacturing standard conforms to IS : 1754, ISO 6507-2 & ASTM E92

### Features:

- \* Fully computerised Vickers Hardness Measurement by most accurate software
- \* Wide Testing Range from softest to hardest materials
- \* High accuracy and repeatability of measurement at all loads
- \* Motorised Loading and Unloading cycle with dwell time settable upto 99 sec
- \* Small Test Loads to measure thin sheet metals and small components
- \* User friendly software for Hardness measurement
- \* Advanced image processing software with precise calculation of Vickers hardness numbers
- \* Fastest "AUTO Measure" feature in software to eliminate manual errors

### Technical Data:

Test Loads	1, 5, 10, 20, 30, 50 kgf
Optical Magnification	70 X
Optical Measuring Range (mm)	0.01 to 0.60
Maximum Test Height (mm)	200
Scale Least Count (mm)	0.001
Throat Depth (mm)	135
Machine Dimension (mm)	L 585 x W 290 x H 860
Weight (approx)	70 kg
Power Supply	220 VAC, 50Hz, 1-Phase

## VERTEX ENGINEERS & ASSOCIATES

Office Address: PAP-R-433, TTC Industrial Area, MIDC, Rabale, Navi Mumbai 400701, Maharashtra, India.

Tel : +91-9323405785 Email : [info@vertexmachines.com](mailto:info@vertexmachines.com), Visit us at : [www.vertexmachines.com](http://www.vertexmachines.com)

Factory Address: Milkat No. 665, At Nele Post Kidgaon, Dist. Satara - 415015, Maharashtra, India



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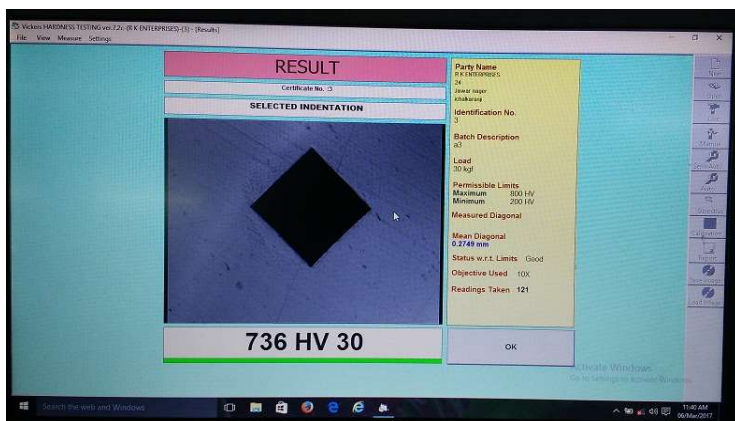
### Operation:

The robust machine frame is designed to accommodate the high precision loading system and an optical projection screen.

Specimen is placed on a testing table. The test cycle is fully automatic. The accurate load is applied on a diamond penetrator by means of a lever and weights. After a specific lapse of time, the load is removed automatically.

The image of impression directly appears of computer screen by inbuilt high resolution camera

The diagonals of the indentation can be measured automatically by mouse click and Vickers Hardness value will appear on computer screen.



### Software Features:

Online indentation setting and focusing on PC Monitor

Facility for Remote auto / Auto / Semi Auto / Manual modes of operation

Well managed database saves readings w.r.t. batch and certificate

Report generation in the form of certificate and graph with variation and histogram

Facility for calibration and check of calibration

Advance image processing algorithm implemented for automatic measurement

Statistical data is provided for batch results and include standard deviation, mean, medium, minimum & maximum Readings

Measuring scale calibration & verification on PC

### Basic Computer requirement: to be arranged by buyer

2 GHz or faster processor, 1 GB RAM minimum, 120GB Hard disc minimum, Windows 7/8/10 operating system, 2 free USB ports.

### Standard Accessories:

1	Standard Test Block	1 No.
2	Diamond Penetrator	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	USB Hardware for camera	1 No.
8	USB Hardware Dongle	1 No.
9	Software CD	1 No.
10	Electric Cord	1 No.
11	Instruction Manual	1 Book

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

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