

COMPUTERISED VICKERS HARDNESS TESTING MACHINE



VHT-50/250 PC

VHT-50/ 250IPC



DESCRIPTION

The computerized Vickers / Brinell Hardness tester has a C-type load frame. The job is positioned on the test table and lifted by the hand wheel to set the focal point. The required load is applied on the job and removed by a motorized system. After indexing the plate, optics will come in place of indentation & will transfer the image of indentation to the Camera. The image is further digitalized and processed by PC/ TPC for measurement. The diagonal / diameter of the image can be measured automatically / semi-automatically / manually to get Vickers / Brinell Hardness value.

FEATURES

- Fully computerized system for indentation measurement and display.
- Accurate measurement of Vickers / Brinell Hardness through matched Optics, CCD Camera, hardware and software using advanced image processing technologies.
- Wide range of testing
- High accuracy & confirms to related to IS & ISO standard © Windows based software system.
- Three modes of measurement, manual, semi auto and auto
- In auto mode the image is scanned for measurement and hardness is displayed automatically.
- In Semi automatic mode cursor is to click on the indentation to get the hardness value.
- In manual mode cursor is to be matched to the diagonal / diameter of the indentation to get the hardness value.
- Calibration mode is provided with password protection. © Batch testing facility is provided.

The test report consists of Machine, sample and test details along with

- Mean Diagonal / diameter
- Vickers / Brinell Hardness value
- Bitmap image
- Low / high limits acceptance and accept or reject status

**TECHNICAL SPECIFICATIONS**

DESCRIPTION	VHT-50-PC	VHT-50-IPC	VHT-250-PC	VHT-250-IPC
Loads (Kgf.)	5, 10, 20,30 & 50	5, 10, 20 ,30 & 50	5, 10, 20 ,30 & 50 For Vickers 62.5, 187.5, 250 For Brinell	5, 10, 20 ,30 & 50 For Vickers 62.5, 187.5, 250 For Brinell
Maximum Test height (mm)	200 mm	200 mm	200 mm	200 mm
Depth of throat (mm)	150 mm	150 mm	150 mm	150 mm
Weight Approx. (Kgf)	180	180	180	180
Dimension L x W x H mm	60x180x850 mm	660 x 250 x 850 mm	660 x 250 x 850 mm	660 x 250 x 850 mm
Connected load	0.1 KVA, 1 Phase AC, 220V, 50 Hz			

STANDARD ACCESSORIES:

TEM DESCRIPTION	VHT-50-PC	VHT-50-IPC	VHT-250-PC	VHT-250-IPC
1. Flat Table of 100mm Dia.	1 No	1 No	1 No	1 No
2. Vee Table for Specimen - 6 to 80 mm Dia	1 No	1 No	1 No	1 No
3. Vickers Diamond Indenter	1 No	1 No	1 No	1 No
4.Ø2.5, 5mm Ball Indenter	---	---	1 No. each	1 No. each
5.Ø2.5, 5mm Steel Balls	---	---	5 No. each	5 No. each
6. Vickers test block	1 No	1 No	1 No	1 No
7. Brinell test block	---	---	1 No	1 No
8. Electrical Cord	1 No	1 No	1 No	1 No
9. Operate Manual	1 No	1 No	1 No	1 No
10. Panel PC		Fan less Panel Pc with 4:3 LED touch screen panel and industrial mother board. Intel Atom Processor 1.6 GHZ, 1 GB DDR 2 RAM		Fan less Panel Pc with 4:3 LED touch screen panel and industrial mother board. Intel Atom Processor 1.6 GHZ, 1 GB DDR 2 RAM 8.0"
	---	8.0" LCD Monitor of Resolution 800 x 600 (SVGA)	---	LCD Monitor of Resolution 800 x 600 (SVGA)

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A large, faded watermark of the HSMLE logo is centered on the page. It features the letters 'HSMLE' in a bold, sans-serif font, with a stylized 'H' and 'M' that are interconnected. The entire logo is enclosed within a diamond-shaped border.