



## COMPUTERIZED VICKERS HARDNESS TESTER (DIGITAL)



### Model – SSS-VM-50(PC)

Fully Computerized (PC Based) Vickers Hardness Machine.

- ✚ Direct and 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 and 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 of thin sheet metals.
- ✚ Advanced Window XP based software :

#### Latest GUI Features:

- ✚ User friendly software with Windows Features.
- ✚ Online indentation setting and focusing on PC monitor.
- ✚ Advance image processing: Algorithms implemented for precise calculation of hardness numbers with various options to cover all ranges of specimen.
- ✚ Option for Data, storage and reports generation.

#### Statistical Evaluation:

Software for calculating standard deviation, mean, medium, histogram etc.

- ✚ Wide options in calibration mode.
- ✚ Calibration / Verification on PC monitor makes easier to operate.

### Specifications:

Computerized Vickers Hardness Tester is a simple and accurate means to produce automatically measure the diamond indentation to give Vickers hardness numbers.

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.

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

### 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 Rs 232 (serial) port. (PC not included in standard scope of supply)**

SPECIFICATIONS	SSS – VM-50(PC)
Total Load	5, 10, 20, 30, 50, kgf
Max. Test Height(mm)	200
Diagonal least count(mm)	0.001
Diagonal measuring range (mm)	0.05 to 0.5
Throat depth(mm)	135
Machine Dimension (Approx.)mm	L585 x W290 x H860
Weight (Approx.)mm	70 kg
Power Supply	220VAC, 50Hz, 1Phase

ACCESSORIES	VM-50(PC)
Standard Test Block	01 Nos.
Diamond indenter	01 Nos.
Weights	01 Set
Flat Anvil	01 Nos.
Vee-type anvil ( Small & Big )	01 No. (Each)
Spanners	01 Nos.
Electric Cord & PC interface cord	01 Set
USB Video Capture	01 Nos.
Software CD	01 Nos.
Instruction Manual	01 Book

Due to constant R&D specification are subject to change without notice.

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