THE AEC1107-VHT COMPUTERIZED VICKERS HARDNESS TESTING MACHINE

PRODUCT DESCRIPTION:

AEC1107-VHT COMPUTERIZED VICKERS HARDNESS THE **TESTING MACHINE** measure hardness of quench hardened layer the surface coating layer, steel, non- ferrous metal and small and thin shape pans of varying dimensions & thickness from soft metal up to hardest etc. Fully automatic test cycle as per national and international standards like IS: 1754: 2002/ DIN EN ISO 6507-2: 1997 standards.

THE **AEC1107-VHT** COMPUTERIZED VICKERS **TESTING MACHINE** supplied with calibration certificates from NABL/GOVT ACCREDIATED LABORATORY.

PART NUMBER

AEC1107-VHT COMPUTERIZED VICKERS HARDNESS TESTING MACHINE

FEATURE:

> Automatic motorized loading, dwelling and unloading.

696 HV 0 5

- Load selection via unidirectional knob
- ➤ Manual height/ Z movement of stage with crank.
- > Auto/ Manual positioning of turret (indenter and lens).
- ▶ Built-in printer with RS232 interface.



- Measurement scale Vickers Hardness (HV) and Knoop Hardness (HK).
- CCD camera with objectives attached to capture the Image & Transfer the same to display unit with software.

SPECIFICATION:

➤ Test Loads (Kgf) : 1 to 30 :85

: 5-99

- \succ Test height (mm)
- Depth of throat from centre of indenter(mm) : 135
- Dwell Time (Second)
- Power Supply

: 230 V (±10% AC), 50 Hz (± 1%), Single phase.





ACEESSORIES:

- Vickers Diamond Indenter.
- Vickers standard blocks.
- ▶ 10X and 20X Magnification objectives.
- Flat anvil 50/100 mm dia.
- ➤ V' type anvil.
- Leveling vice for odd/ irregular shaped components
- ➤ Holder for holding thin sheet 0.1 to 5 mm
- Clamping vice for upto 40 mm sample.
- Spirit Level indicator
- Supply/ Power cord.
- Compatible PC with window 10 software, Printer and UPS.
- PC interface and USB deviace,
- ▶ Vickers data transfer and image analysis software CD/ DVD.
- Accessory box with standard tool like spanner, L-key, Screw driver etc
- Dust Cover.
- Foundation table.
- Operational, instructions and maintenance manual in English with mechanical, electrical & electronic system diagrams and component test certificates in hard and soft copies.

HIGH RESOLUTION CCD CAMERA WITH INTELLIGENT MEASURING IMAGING SOFTWARE

It is multifunctional & User friendly software. It is a menu driven and advanced window7/8/10 based software capable of following features:

- Measurement of impression via Automatic and Manual.
- > Data storage and reports generating options are available for analysis
- Advanced image processing algorithms implemented for precise calculation of hardness number with various options to cover all ranges of specimen.
- > Auto Measurement of hardness without any manual draw of length.
- ▶ Batch file processing for data/storage and reports generation for case depth analysis etc.
- Statistical evaluation multiple no of tested indentation and data with entry of specimen ID, specimen description, operator ID, date and time of testing etc.
- > Entry and reporting of multiple specimen data and results in tabular form.
- Software for calculating average, standard deviation, mean, coefficient of variation, max/min value, median, frequency distribution graph, variation graph etc.
- Calibration mode for calibration / verification on PC monitor.
- ➢ Windows's based graphical user interface.
- Security with user login and calibration process passwords protected.
- Database of test result to recall of test results and report generation facility in pdf format including stored curves.

COMPUTERISED OPERATION

THE DATA BASE STARTS TO LOAD

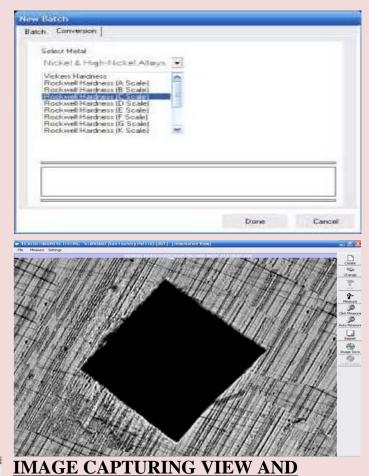
- Enter a Name and Address.
- > Enter a Password.
- > Click DONE.

| Opening At First Time | | | |
|--|----|----------|--|
| Company Clame add Address & Telephone | | | |
| | | | |
| | | | |
| | | Password | |
| Determine Deserves and | | | |
| Retype Password | 1 | | |
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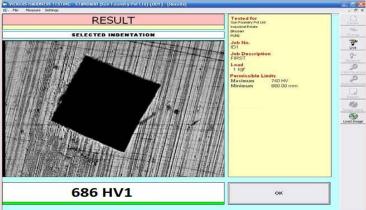
NEW BATCH FILE

| Testeil For Name & Address | Test Parameters Test Load Kgf Bail Diameter Innits Hassmorn Herenum |
|--|--|
| Certificate Base Certificate No. Dote Handness Canvessian | Sample Bala Job No. Job Beasingtion |

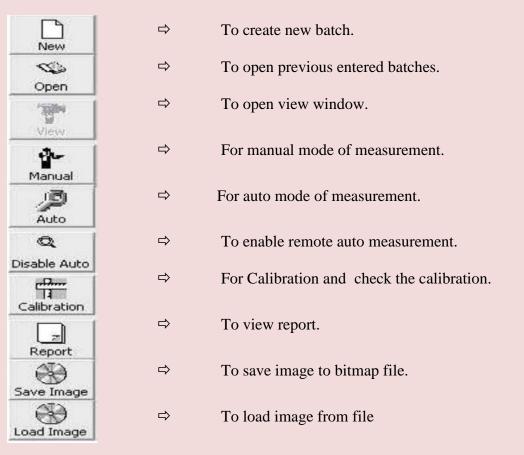
MAIN WINDOW/ IMAGE CAPTURING WINDOW



RESULTS



TOOL BAR/ FEATURE:







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