ETS VM 50- TSPC

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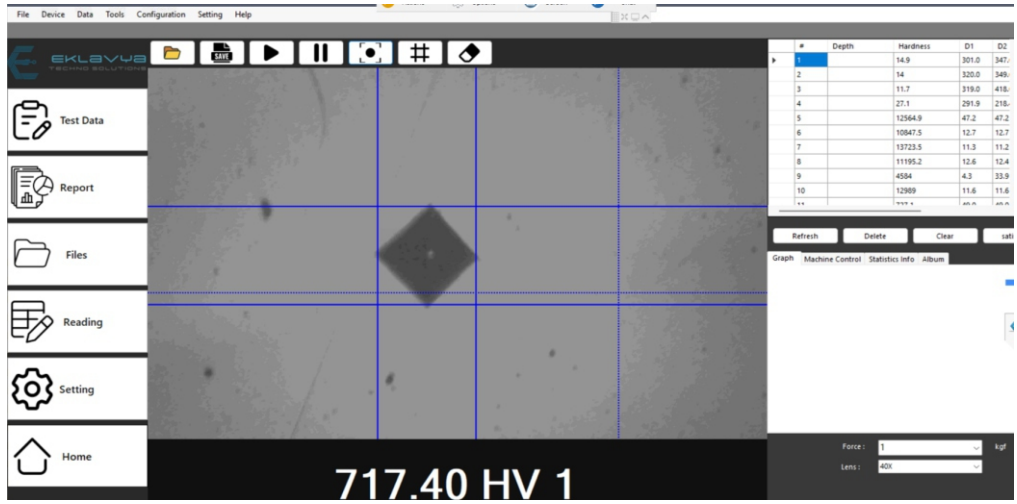


Touch Screen PC based
Vickers Hardness Testing Machine

Wide Testing Range from Soft metal to medium hardness Steel

Motorized loading & unloading

High accuracy & repeatability of measurement at all loads.



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Industrial Grade Touch Screen PC Vickers Hardness Testing Machine

Model : ETS VM 50-TSPC

Features :

Industrial Touch screen PC-based Vickers Hardness Testing Machine

- Direct & accurate measurement of Vickers hardness number using "State of the art" image processing technology.
- Wide testing range – from soft metals to the hardest alloys
- High accuracy and repeatability of measurements across all load levels
- Fast measurement cycle, resulting in increased productivity for finished components.
- Small size of indentation makes it a non destructive testing on finished components.
- Motorized loading and unloading for ease of operation
- 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 :

The ETS Computerized Hardness Tester provides a simple and highly accurate method for producing and automatically measuring diamond impressions to determine the Vickers Hardness Number (VHN).

These testers are ideal for assessing the hardness of precision metallic components across a wide testing range—from soft to hard materials. Their accuracy and reliability have earned them broad recognition and acclaim.

The testers are designed in strict compliance with IS 1501-2:2013 standards.

Construction :

The robust machine frame is designed to accommodate high-precision loading.

The specimen is placed on a testing table, and the entire test cycle is fully automatic. A precise load is applied to a diamond indenter via a system of levers and weights. After a specified dwell time, the load is automatically removed.

A CCD camera mounted on the captures the indentation image, which is then digitized and analyzedby a connected PC.

The PC automatically measures the diagonals of the indentation to calculate the Vickers Hardness Number (VHN).

Technical Specifications :

Test Loads	5,10,20,30,50 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)	L 585 x W 290 x H 860
Weight (approx)	70 kg.
Power supply	220 VAC, 50 Hz,1-Ph.

*Printer is not in our standard scope of supply.

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	1 No. each
Software Licence Dongle	1 No.
Vicksys software Pendrive	1 No.
Instruction Manual	1 Book

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

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Manufactured By :

EKLAVYA TECHNO SOLUTIONS PVT. LTD.