

Measurement [551] (Auto Saving)

519 HV



GROUP

Over **60** years of
consistent excellence

Computerized Touch Screen Vickers Hardness Testing Machine

Model : VM 50-TS



Wide Testing Range from
Soft metal to medium hardness Steel.



High accuracy & repeatability
of measurement at all loads.



Front Panel Touch Screen Display



USB Connectivity





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Computerized Touch Screen Vickers Hardness Testing Machine Model : VM 50-TS

Features :

- Fully Computerized Touch Screen Vickers Hardness Testing Machine.
- 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 & 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.
- Motorised loading and unloading cycle.
- Small loads allow testing of thin sheet metals.
- Advanced windows based software
- PLC based system
- Inbuilt branded touch screen laptop.
- Front panel touch screen display.

Latest GUI features :

- User Friendly software with windows features.
- Online indentation setting & focussing on front touch screen display.
- 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.
- USB Printer/Wi-fi printer port for printer interface with result & graph print-out.
- Facility to test in Manual, Semi-automatic & Automatic Mode.
- Facility to export result/data in PDF format.

Application :

'FIE' touch screen Vickers hardness tester is a simple and accurate means to produce and automatically measure the indentation to give Vickers hardness number.

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 confirms to IS 1501-2:2013

Construction :

The robust machine frame is designed to accommodate the high precision loading equipped with front touch screen laptop.

Specimen is placed on a testing table. The test cycle is semi automatic.

The accurate load is applied on a diamond indenter by means of lever and weights. After a specific lapse of time the load is released automatically.

The image is digitalized using USB camera fitted in the machine & is captured by the front touch screen laptop.

The diagonals of the indentation are automatically measured by software to give the Vickers hardness number.

The machine is equipped with latest touch screen branded laptop so their is no need to arrange for computer.



Optional -
Auto Turret Mechanism for indexing indenter & objective from loading station to measurement station.

For Auto Turret Machine after clicking on cycle start button indexing mechanism will operate automatically & loading mechanism starts, once loading finishes again indexing mechanism will positioned at measuring station.

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 0.3
Throat Depth (mm)	135
Machine Dimensions	L600 x W440 x H920 Approx.
Weight	100 Kg. Approx.
Power Supply	220VAC, 50Hz, 1-Ph.

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
Software CD	1 No.
Telescopic Cover	1 Set
Instruction Manual	1 Book



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Touch Screen Software Package includes :



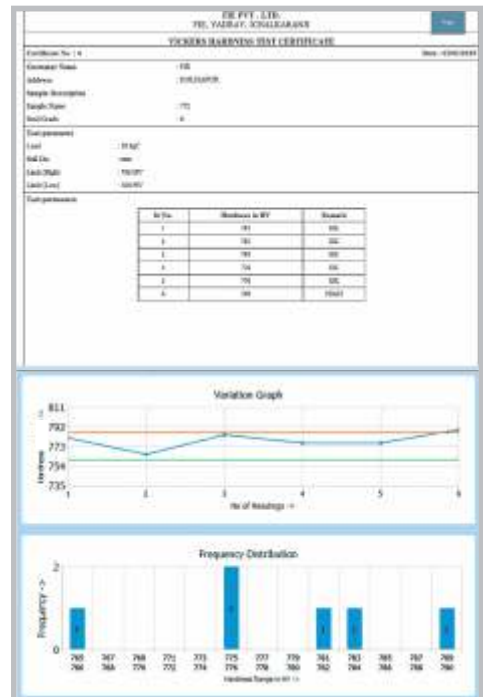
Home Page



Data Entry



Impression Measurement



Statistics

No.	Ad Pt	Standard (D)	Time	Result	No.	Ad Pt	Standard (D)	Time	Result
1	50	W22.5	30	OK					
2	50	W22.5	30	OK					
3	50	W22.5	30	OK					
4	150	W22.5	30	OK					
5	175	W22.5	30	OK					
6	50	W22.5	30	OK					

Batch Analysis

Load	Ad Pt	Standard	Time	Result
10 kg	50	W22.5	30	OK
10 kg	50	W22.5	30	OK
10 kg	50	W22.5	30	OK
10 kg	150	W22.5	30	OK
10 kg	175	W22.5	30	OK
10 kg	50	W22.5	30	OK

Readings with Impression

Measurement [551] (Auto Saving)

519 HV 10

Computerized Touch Screen Vickers Hardness Testing Machine

Series : VM 50-TS



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Manufactured By :

Fuel Instruments & Engineers Pvt. Ltd.

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