



# DIGITAL VICKERS MACRO HARDNESS TESTER

**MET-50Z**





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Testing Force	N: 9.807, 19.61, 24.52, 29.42, 49.03, 98.07, 196.1, 294.2, 490.3
	Kgf: 1, 2, 2.5, 3, 5, 10, 20, 30, 50
Testing Range	8HV1~2900HV30
Loading Control	Automatically (loading, dwell, unloading)
Objective/Indenter Switch	Auto-turret
Magnification of Objective	10X , 20X for Observation and Measurement
Magnification of Eyepiece	Digital 10X Measuring Eyepiece System
Hardness Indication	LCD display
Dwell Time	Adjustable 0~60s (5 second as a unit)
Illumination	Adjustable Halogen Light-source
Printing	Built-in Mini-printer
Maxium Height of Specimen	170mm
Instrument Throat	135mm
Accuracy	Standard conforms to ASTM-E92,E384, EN-ISO 6507
Printer	Built-in printer
Power Supply	(110~220) AV, (50~60) Hz
Instrument Dimension	(530×210×630) mm
Plywood Packing Dimension	663x412x738mm
Gross/Net Weight	47Kg



## MET-50Z Standard Included

Main unit	1SET	Built-in 10X objectives	1PC	V-shape anvil	1PC
HV5 Hardness block	1PC	Spare Fuse	2PCS	Vickers indenter	1PC
HV10 Hardness block	1PC	10X Measuring eyepiece	1PC	Power cable	1PC
Halogen Light-source	1PC	Instrument weights	3PCS	Accessories box	1PC
		Medium test anvil	1PC	Operation Manual	1COPY

## MET-50Z Options

X-Y Stage 25mm x 25mm Travel	MET 719
25mm Digital micrometer head with resolution 1um	CL-25-25

The Digital Vickers Hardness Tester is a new type high-tech product combining the optical, mechanic and electronic techniques; with a large LCD screen display, a novel and pleasing appearance, direct-viewing, operational functions and reliability, hence it is an ideal instrument for the testing of Vickers hardness. It has an auto-shifting device between indenter and objectives.

2. The hardness tester is adopted such techniques as a precise design in the field of mechanics, a higher amplification objectives and digital micro eyepiece in optics field, etc.
3. Due to adopt the closed-circuits in loading control system, it makes the accuracy of test force higher, the repeatability and stability of displaying values better. It is the initiate of home to adopt this system on Vickers hardness tester.
4. By means of touch keys on the operating board, the dwell time for test force can be preset, the luminosity of light source can be regulated, Vickers or Knoop measuring method can be selected, hardness scales can be exchanged and files can be stored, etc. All the testing data such as the indentation length, the hardness value, the number of the measurements, and year, month, day, and time are all shown on the LCD screen. It can test result and handle data, and output by printer as well.
5. According to the particular requirements of the client, the instrument can be equipped with CCD device to enable the video measuring and auto image measuring. The instrument is suitable for testing the micro and thin pieces, the parts with the permeated and coated surface, it is also fit for testing Vickers hardness value for the crisp materials such as the agate, glass and it is, therefore, an ideal hardness measuring instrument for the scientific research institutes, the universities, the industrial production units and the metrological institutes using with for studying and measuring.