

TMVT-1

INTELLIGENT DIGITAL MICRO VICKERS HARDNESS TESTER



Features

This instrument is a new generation of Micro Vickers hardness tester. It adopts the integrated design of hardness tester and panel computer, all the testing parameters can be selected on the panel computer. With touch screen, it operates quickly and conveniently and displays clearly and intuitively. With CCD image acquisition system, it can show dynamic indentation image, lock the image and automatically get the Vickers hardness value with high precision and stability, and avoid the human errors. The hardness tester with complete functions reaches the advanced level.

- It adopts the integrated design of hardness tester and panel computer, with Windows 7 operating system, it has all functions of computer and can be connected to the output devices such as external screen and printer;
- Automatic recognition and shifting between the objective and the indenter;
- The lifting screw adopts worm and gear structure with smooth transmission;
- With digital X-Y test table, it makes position and measurement more precise;
- Test force loading, dwell and unloading is automatically finished;
- With CCD image acquisition system, it shows the image clearly and gets the hardness value automatically;
- With the function of hardness scale conversion;
- It can automatically save the measuring data, generate the hardness-depth curve and save as WORD or EXCEL document.

Application Range

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

Accessories (Packing list)

●Main unit	1	●10× Eyepiece	1
●Diamond Micro Vickers Indenter	1	●10×, 40× Objective	each 1
●Weights	6	●Weight Axis	1
●Digital Cross Test Table	1	●Flat Clamping Test Table	1
●Thin Specimen Test Table	1	●Filament Clamping Test Table	1
●Horizontal Regulating Screw	4	●Level	1
●Fuse 1A	2	●Halogen Lamp 12V, 15~20W	1
●Power Cable	1	●Screw Driver	2
●Hardness Block 400~500 HV0.2	1	●Hardness Block 700~800 HV1	1
●Anti-dust Cover	1	●U disk	1
●Touch Screen Remote Control	1	●Touch Pen	1
●Mouse	1	●Usage Instruction Manual	1

Technical Specification

Model	TMVT-1
Test Force	0.098N(10gf), 0.246N(25gf), 0.49N(50gf), 0.98N(100gf), 1.96N(200gf),2.94N(300gf), 4.90N(500gf), 9.80N(1000gf),
Test Range	1HV~2967HV
Test Mode	HV/HK
Loading Method	Automatic (Loading/Dwell/Unloading)
Shifting between Objective and Indenter	Automatic Shifting
Computer	CPU: Intel I5, Memory: 2G, SSD: 64G
Conversion Scale	1.30 Million
CCD Pixel	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW
Data Output	WORD or EXCEL Report with Curve Chart
Hardness Reading	Indentation Displaying and Automatic Measuring on Touch Screen
Objective	10× (Observe), 40× (Measure)
Resolution	0.025μm
Dwell Time	0~60s
Light Source	Halogen Lamp
X-Y Test Table	Size: 120×120mm; Travel: 25×25mm; Resolution: 0.003mm
Max. Height of Specimen	185mm
Throat	130mm
Power Supply	AC220V, 50Hz
Execute Standard	ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2
Dimension	560×335×675mm, Packing Dimension: 650×380×960mm
Weight	Net Weight: 48kg Gross Weight: 62kg