

MHVS-1000/MHVS-1000AT

Touch Screen Manual/Automatic Tower Digital Display Micro-vickers Hardness Tester



MHVS-1000



MHVS-1000AT

Product introduction

Vickers hardness tester is a new type of hardness tester which combines precision mechanical and photoelectric computer software. It can be used for Vickers or Knoop hardness test. By inputting the measured diagonal value into an integrated calculator, the hardness value can be calculated.

Vickers hardness tester is suitable for testing metal structures, including small parts, sheets, foils, high-quality wires, thin hardening layer and electroplating layer. It can also be used for testing non-metallic materials such as glass, jewelry and ceramics which can not be tested by Rockwell test method and other relatively large test force tests. In particular, it follows the structure of metals and tests the internal hardness of materials such as induction hardening or carburizing.

Functional characteristics

- ◆ Indentation Diagonal Automatic Measuring Microscope
- ◆ Simple operation
- ◆ Automatic loading and unloading control
- ◆ LCD Digital Display Hardness Value and Data Statistics Built-in Printer, Direct Print Output Measurement Results
- ◆ Dual optical channels (eyepiece and CCD camera channels) can be equipped with computer control system.
- ◆ The minimum reading of XY test-bed is 0.01mm.

- ◆ Selection of Micro Vickers and Knoop Hardness Scales
- ◆ The hardness value of the test can be calculated automatically and displayed automatically.
- ◆ Precise automatic positioning of test points
- ◆ Change-over control between hardness can be selected according to different materials.
- ◆ Measuring system with adjustable cooling light source, etc.

Technical parameter

Model	MHVS-1000	MHVS-1000AT
Test force	10gf、25gf、50gf、100gf、200gf、300gf、500gf、1kgf	
	0.098N、0.245N、0.49N、0.98N、1.96N、2.94N、4.9N、9.8N	
Test force selection	External force selector knob	
Executive standard	GB/T4340, ISO 6507, ASTM E384	
Hardness testing Position	5-4000HV	
Scale conversion	Rockwell、Brinell	
Method of exerting test force	Automatic (Loading, Guarantee, Unloading)	
Indenter and Object Lens Conversion	manual	automatic
Measuring the magnification of a microscope	100X (observation)	
	400X (measure)	
Optical Channel	Double Optical Channel (Eyepiece and CCD Camera Channel)	
Measuring eyepiece	Automatic Digital Encoder	
Test force duration time	0-60s	
Minimum Resolution	0.01 μm	
X-Y test-bed	Size: 100*100mm Maximum movement: 25*25mm	
Date output	LCD display readout, built-in printer and RS-232 interface	
Maximum height of specimen	85mm	
Maximum width of specimen	95mm	
Power Supply	AC220V±5%, 50-60Hz	
Shape size	520*200*560mm	
Machine net weight	About 52kg	

Standard configuration

Name	Quantity	Name	Quantity
Weight shaft	1	Weights	6

Cross test stand	1	Slice clamping table	1
Flat-mouthed clamping table	1	Filament clamping table	1
screwdriver	2	Horizontal adjustment screw	4
Level	1	10X test eyepiece	1
Micro Vickers hardness block	2	spare fuses (2A)	2
Power cord	1	Product Qualification Certificate	1
Manual	1		