

Digital display micro hardness tester (HVS-1000 small screen)

The digital micro hardness tester can meet the basic Vickers hardness test requirements. The upgraded digital micrometer can directly read the measurement length, so that the measured value can be obtained more quickly and accurately.

**Main functions and features:**

- 1, The optical system designed by senior optical engineers not only has clear images, but also can be used as a simple microscope. The brightness is adjustable, and it is visually comfortable. Long-time operation is not easy to fatigue operators.
- 2, Cast aluminum shell molding, with stable structure and is not easy to be deformed, pure white car paint high grade, anti-scratch ability, using for many years is still bright as new;
- 3, Our company has the ability of self-developing, designing, producing and processing. The machine provides parts replacement and maintenance upgrade service for life;
- 4, HVS-1000 models can be directly measured by the actual measurement of the length to obtain the hardness value.

The main purpose and scope of application:

1. Iron and steel, non-ferrous metals, metal foils, hard alloys, metal sheets, microstructures
2. Carburizing, Nitriding and Decarburization Layers, Surface Hardening Layers, Plating, Coatings
3. Glass, wafers, ceramic materials

Technical Parameters:

Micro hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1
Display	Holding time (seconds), hardness value
Test force (gf)	10,25,50,100,200,300,500,1000
Loading control	Automatic (load/hold/uninstall)
Test force retention time (s)	5 to 60
Test force selection	External selector knob, test force is automatically displayed on the LCD screen
Objective magnification	10X, 40X
Optical channel	Dual light channels (eyepieces and CCD camera channels)
Optical system	1. Automatic digital encoder; 2. The total magnification (μm): $100 \times$ (observation), $400 \times$ (measurement); 3. Measuring range (μm): 200; 4. Resolution (μm): 0.01
Hardness measurement range	(5-3000) HV
XY test platform	Size (mm): 100×100 Travel range (mm): 25×25 Minimum reading (mm): 0.01
Maximum height of specimen (mm)	110
Maximum width of specimen (mm)	85 (distance from the center line of the indenter to the wall)
Data output	Reserve built-in mini printer interface (RS232 serial interface), optional installation
Voltage	AC220V/50HZ
Weight (kg)	35
Dimensions	(540×200×530)mm

Standard configuration:

1.Host (Micro Vickers indenter x1, 10x objective x1, 40x objective x1)	2.Test platform, weight, microscope accessory box;
3.Weights x6	4.Weight bar x1
5.Cross table x1	6.Sheet clamping table x1
7.Flat mouth clamping table x1	8.Filament holding table x1
9.Level meter x1	10.Screwdriver x2
11.Horizontal adjustment screws x4	12.External power cord x1
13.10× Digital Micrometer Eyepieces x1	14.Micro Vickers hardness block x2 (HV1, HV0.2 x1 for each)
15.Fuses (1 A) x2	16.Product certification x1
17.Product Instruction Manual x1	18.Dust cover x1

Note:

- 1, The optional side-sway lifting system makes the lifting system more stable and accurate.**
- 2, Optional built-in printer, measurement data, a key print, can also upload the computer.**
- 3, Optional hardness meter measurement software can eliminate manual error, computer operation, improve efficiency and accuracy.**