

HST-HVS1000ZB Digital Display Automatic Turret Micro Hardness Tester



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, ceramics

Features:

1. The optical system designed by senior optical engineers not only has clear images, but also can be used as a simple microscope, with adjustable brightness, comfortable vision, and not easy to fatigue after long-term operation;
2. Industrial display LCD large-screen display can display test method, test force, measuring indentation length, hardness value, converted hardness value, test force holding time, number of measurements and can be typed into year, month, date, test results and data processing, etc.
3. The cast aluminum shell is formed at one time, the structure is stable and does not deform, the pure

white car paint is of high grade, the scratch resistance is strong, and it is still bright as new after years of use;

4. Can be directly measured by the actual measurement of the length to obtain the hardness value.
5. Observation-test-measurement position switching is done by the automatic turret.

Technical Parameters:

Model	HST-HVS1000ZB
Turret	Automatic
Test force	10gf (0.098N)、25gf (0.245N)、50gf (0.49N)、100gf (0.98N)、200gf(1.96N)、300gf (2.94N)、500gf(4.9N)、1kgf (9.8N)
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1
Display	Holding time (seconds), hardness value
Loading control	Automatic (load/hold/uninstall)
Test force retention time	5 ~60s
Test force selection	External selector knob, test force is automatically displayed on the LCD screen
Objective magnification	10×, 40×
Optical channel	Dual light channels (eyepieces and CCD camera channels)
Optical system	1. Automatic digital encoder; 2. The total magnification (μm): 100 × (observation), 400 × (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	110mm
Maximum width of specimen	85mm (distance from the center line of the indenter to the wall)
Data output	Optional Built-in mini printer interface (RS232 serial interface)
Voltage	AC220V/50HZ
Weight	35kg
Dimensions	540×200×530mm

Standard configuration:

Item	Q'ty	Item	Q'ty
Micro Vickers Host	1	Flat mouth clamping table	1
Micro Vickers indente	1	Weight bar	1
10x objective	1	Sheet clamping table	1
40x objective	1	Filament holding table	1
Weights	6	Screwdriver	2
Cross table	1	External power cord	1
Test platform, weight, microscope accessory box;	1	Micro Vickers hardness block (HV1, HV0.2)	Each 1
Level meter	1	Dust cover	1
Horizontal adjustment screws	4	Product certification	1
10× Digital Micrometer Eyepieces x1	1	Product Instruction Manual	1
Fuses (1 A)	2		

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.**