

Micro Hardness Tester

Digital Display Micro Hardness Tester (VHS-1000A)

The objective lens and indenter can be shift automatically after finished focus. Loading, dwell and unloading the test force automatically. And the objective lens returns to initial focus status, measuring directly. Greatly improved the working efficiency.

Digital Display Micro Hardness Tester (VHS-1000B)

The VHS-1000B model products have all the features and functions of the ordinary micro hardness testers. Its operator interfaces adopt the embedded LCD display screen, and all the testing data can be display on the real time. A comprehensive analysis of the material can be provided to the operators for a reference. And it's famous as its fashion and decent design, high testing precision, stable functions and simple operation.



VHS-1000 A/B

Main Function & Features

- Operational panel is concise and clear with menu structure with English.
- The hardness values, diagonal length, dwell time, testing frequency, environmental temperature, the maximum minimum value of test, average value and repeatability can be displayed directly.
- The independent research and development of lifting system and positioning system, ensured the accuracy and repeatedly of the testing process.
- According to different visual habits of the operators, the strength of the light source can be adjusted. To avoid the visual fatigue for long time operation.
- The testing data able to be printed directly by the built-in printer. Reserved image channel can be connected with computer, used the image analysis software to analysing the physical and chemical properties of the material.

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Technical Specifications

Model No.	VHS-1000A	VHS-1000B
Turret	Auto Turret	Manual Turret
Hardness Scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1	
Hardness Conversion Scale	HRA, HRB, HRC, HRD, HK, HBS, H15N, H30N, H45N, H15T, H30T, H45T	
Testing Force	10g (0.098N), 25g (0.245N), 50g (0.49N), 100g (0.98N), 200g (1.96N), 300g (2.94N), 500g (4.9N), 1000g(9.8N)	
Test Force Error	±1.0%	
Loading Speed	≤50µm/sec	
Indenter	Standard Rectangular pyramid diamond indenter (136°±0.5°)	
Min. Measuring Unit	0.01µm	
Hardness Value Range	1HV-4000HV	
Hardness Value of Reading	Digital LCD Screen (118x99mm)	
Total Magnification	100X (For Observation), 400X (For Measurement) (Can be extended to 150X or 600X)	
Loading Method	Automatically (Load, dwell and unload)	
Dwell Time	1-99s (each step is 1 second)	
Turret	Auto Turret	
Objective Lens Centre and Indenter Centre	Coincidence accuracy error < 1µm (objective lens centre position can be adjusted)	
Maximum Height	85mm	
Distance from Indenter Centre To Fuselage	115mm	
Instrument Size and Net Weight	490×185×515mm (L×W×H) and 43kg	
Light Source	LED Cold light source (can be continuous use for 24 hours, no heat generates ensure stable working, servicing life can reach 100,000 hours)	
Power Supply	220V + 5%, 50/60 Hz (110V is available)	
Data Output	Built-in Printer; Built-in RS-232 interface (transfer data to computer, easy for long time save)	
X-Y Testing Table	Dim.:100×100 mm, Max. Travel Range: 25×25mm Moving Resolution Ratio: 0.01mm (Digital X-Y Testing Table with digital LCD Screen for Optional)	
Standard Accessories		
<ul style="list-style-type: none"> • 10X Omm Digital Micro Eyepiece • 10X And 40X Objective Lens • Vickers Indenter • X-Y Testing Table • Flat Fixture, Sheet Specimen Fixture, Small Parts Fixture 		<ul style="list-style-type: none"> • Dust-proof cover • Manual Book • Accessory case • 2 pieces: Standard block of hardness
Optional Accessories		
<ul style="list-style-type: none"> • Image Analysis Software, • Metallurgical Structure Equipment, • Knoop Indenter Knoop Hardness Block, • 15X Micrometer Eyepiece, • 2.5X Objective Lens • 20X Objective Lens, • 60X Objective Lens. 		

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