



# 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 return 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 adopts 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-1000A/B**

### **MAIN FUNCTIONS AND 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 analyzing the physical and chemical properties of the material.

**SPECIFICATIONS: -**

MODEL	VHS-1000A	VHS-1000B
Switch Type of Objective lens and Indenter	Auto Turret	Manual Turret
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), (2000g Optional)	
Scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1, (HV2 Optional)	
Conversion Scale	HRA, HRB, HRC, HRD, HRF, HBW, H15N, H30N, H45N, H15T, H30T, H45T	
Min. Measuring Unit	0.01 $\mu$ m	
Hardness Value Rang	1HV-4000HV	
Hardness Value of Reading	Digital LCD Screen	
Total Magnification of Microscope	100X (For Observation), 400X (For Measurement) (Can be extended to 200X or 600X )	
Loading Method	Automatically (Load, dwell and unload the testing force)	
Dwell Time	1-99s	
Specimen Allowing Maximum Height	85mm	
Throat Depth	115mm	
Instrument Size	490×185×515mm (L×W×H)	
Instrument Weight	45kg	
Light Source	LED Cold light source (can be continuous use for 24 hours servicing life can reach 100,000 hours)	
Power supply	220V + 5%, 50 HZ	
X-Y Testing Table	Dim.:100×100 mm, Max. Travel Range: 25×25mm, Moving Resolution Ratio:0.01mm (X-Y Digital Testing Table with digital LCD Screen for Optional)	
Data Output	Built-in Printer (Hardness Value, The Max. And Min. Value Testing times and Average Value) Built-in RS-232 interface	

**STANDARD ACCESSORIES**

10X Micrometer eyepiece : 1pc,	10X and 40X Objective lens : 1pc
Vickers indenter : 1pc,	X-Y testing table : 1pc,
Flat fixture : 1pc	Thin fixture : 1pc
Power cable : 1pc	Standard block of hardness : 2pc
	Instruction Book : 1pc

**OPTIONAL ACCESSORIES**

Image analysis software,	Metallurgical structure equipment,
Knoop Indenter	Knoop hardness block,
15X micrometer eyepiece,	2.5X Objective lens
20X Objective Lens,	60X Objective Lens.