



VICKERS HARDNESS TESTER

It has a more faster testing speed than other ordinary Micro hardness tester. The hardness value can be displayed directly and not need to enter the length of the diagonal. High quality imported components ensure the instrument can stable working for a very long time; Protected by the state patent application of the lift & down system, after upgrading, the control system can provide more measuring data, and control more precise.

- **VALUE**
- **VERSATILITY**
- **PERFORMANCE**



VHD-5A/B

MAIN FUNCTIONS AND FEATURES: -

- The independent research and development of lift & down system and positioning system, ensured the accuracy and repeatedly of the testing process.
- The optical system designed by our senior optical engineer not only meet the definition of hardness testing requirements, but also can observe the micro structure of the material, image is very clear.
- 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.
- With Vickers hardness and Knoop hardness testing capabilities, and testing range from HV0.2 to HV5. Automatic measuring the indentation diagonal length, the hardness and conversion hardness will show on the screen directly, no need to check hardness table.
- Industrial digital screen can direct display hardness value, conversion hardness, testing method, testing force, dwell time, test number and testing process; The built-in printer can print testing times, hardness value, average value, Max. Value, Min. Value, Xmax-Xmin directly, easy for operator to save the data.
- One-time casting aluminum molding shell ensure structure more stable; Adopted car painting technology, pure white color looking more decent; High scratch resistance capability, used for years still brightness like new.

**SPECIFICATIONS: -**

Model No.	VHD-5A	VHD-5B
Switch Type of Objective	Auto Turret	Manual Turret
Testing Force	200g (1.96N), 500g (4.9N), 1000g (9.8N), 2000g (19.6N), 3000g (29.4N), 5000g (49N)	
Scale	HVO.2, HVO.5, HV1, HV2, HV3, HV5	
Conversion Scale	HRA, HRB, HRC, HRD, HRF, HBW, H15N, H30N, H45N, H15T, H30T, H45T	
Min. Measuring Units	0.01 μ m	
Hardness Value Range	1HV-4000HV	
Hardness Value of Reading	Digital LCD Screen	
Total Magnification of microscope	100X (For Observation), 200X (For Measurement)	
Loading Method	Automatically (Load, dwell and unload the testing force)	
Dwell Time	1-99s	
Specimen Allowing Maximum Height	85mm	
Throat Depth	110mm	
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	110V/220V + 5%, 50/60 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 20X Objective lens : 1pc
Vickers indenter : 1pc,	Thin Fixture : 1pc
Flat Fixture : 1pc,	MManual Book : 1pc,
Power cable : 1pc	Standard block of hardness : 2pc

OPTIONAL ACCESSORIES

Image analysis software,	Metallurgical structure equipment,
Knoop Indenter	Knoop hardness block,
15X micrometer eyepiece,	2.5X objective lens,
40X objective lens,	60X objective lens