



DIGITAL VICKER HARDNESS TESTER

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



VHD-10/30/50 A&B

MAIN FUNCTIONS AND FEATURES: -

- Equipped with precise sensor (load cell), the test force more precise and test result more accuracy. Test force range more widely. Main components adopted American 3M, Allegro, and Japanese Omron, NKK brand, ensure the instrument can stable working for a very long time.
- The independent research and development of lift & down 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.
- With Vickers hardness and Knoop hardness testing capabilities. 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.
- Equipped with data transfer software, all the testing data can be transfer to computer via RS232 port, then can edit and save the data on computer.
- 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.
- Factory directly supply, we have products develop & design & produce ability, all the parts provide life-time replacement and maintenance service

**SPECIFICATIONS: -**

Model No.	VHD-10A/B	VHD-30A/B	VHD-50A/B
Switch Type Of Objective lens and Indenter	A for Automatic Turret, B for Manual Turret		
Testing Force	500g (4.9N), 1kg (9.8N), 2kg(19.6N), 3kg (29.4N), 5kg (49N), 10kg (98N),	1kg(9.8N), 2kg, 3kg, 5kg, 10kg (98N), 20kg (196N), 30kg (294N),	1kg(9.8N), 2kg, 3kg, 5kg, 10kg (98N), 20kg (196N), 30kg (294N), 50kg (490N)
Scale	HV0.5, HV1, HV2, HV3 HV5, HV10	HV1, HV2, HV3, HV5, HV10, HV20, HV30	HV1, HV2, HV3, HV5, HV10, HV20, HV30, HV50
Min. Measuring Units	0.02 μ m		
Hardness Value Range	8HV-3000HV		
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	200mm		
Throat Depth	159mm		
Instrument Size	560*186*635mm (L*W*H)		
Instrument Weight	55 kg		
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		
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	Large testing table: 1pc
Power cable : 1pc	Instruction Book
Standard block of hardness : 2pc	

OPTIONAL ACCESSORIES

Image analysis software
 Brand Printer
 Brand computer
 Standard indenter and hardness block