

# Micro Hardness Tester

## Digital Display Micro Hardness Tester (VHS-10/30/50A)

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-10/30/50B)

This machine have all the features and functions of the ordinary vickers hardness tester. Its operator interface adopts the embedded LCD display screen. And all the testing data can be displayed on the real time.

A comprehensive analysis of the material can be provided to the operators for a references, And It's famous as its fashion and decent design. High testing precision, stable functions and simple operation.



## VHS-10/30/50A&B

### Main Function & Features

- Equipped with Omron brand digital eyepiece and Data computing systems which accuracy can reach to 0.01um; Just click one button the hardness value will display on screen directly.
- 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.

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- 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.
- 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 aluminium moulding 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.

### Technical Specifications

Model No.	VHS-10A/B	VHS-30A/B	VHS-50A/B
Turret	A for Auto Turret, B for Manual Turret		
Measuring Range	8-3000HV		
Test Force	0.5, 1, 2, 3, 5, 10kgf	1, 2, 3, 5, 10, 20, 30kgf	1, 2, 3, 5, 10, 20, 30, 50kgf
Scale	HV0.5, HV1, HV2, HV3, HV5, HV10	HV1, HV2, HV3, HV5, HV10, HV20, HV30	HV1, HV2, HV3, HV5, HV10, HV20, HV30, HV50
Conversion Scale	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, H15N, H30N, H45N, H15T, H30T, H45T		
Max. height of test piece	200mm		
Depth of throat	159mm		
Magnifications of the optical micrometer	100X, 200X		
Min. scale value of the optical micrometer	0.02µm		
Dimensions	530 x 220 x 580mm		
Instrument Weight	55kg		
Power Supply	110V/220V + 5%, 50/60 Hz		
<b>Standard Accessories</b>	<ul style="list-style-type: none"> <li>○ 10X Micrometer eyepiece : 1pc</li> <li>○ 10X and 20X Objective lens : 1pc</li> <li>○ Vickers indenter : 1pc</li> <li>○ Flat Fixture : 1pc</li> <li>○ Thin Fixture : 1pc</li> <li>○ Power cable : 1pc</li> <li>○ Manual Book : 1 pc</li> <li>○ Standard block of hardness : 2pc</li> </ul>		
<b>Optional Accessories</b>	<ul style="list-style-type: none"> <li>○ Image analysis software</li> <li>○ Metallurgical structure equipment</li> <li>○ Knoop Indenter</li> <li>○ Knoop hardness block</li> <li>○ 15X micrometer eyepiece</li> <li>○ 2.5X objective lens</li> <li>○ 40X objective lens</li> <li>○ 60X objective lens</li> </ul>		

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