

## ADVANCED DIGITAL VICKERS HARDNESS TESTER



### DESCRIPTION

- Automatic loading - dwell - unloading
- Precise electronic eyepiece with encoder 10X
- Reserved CCD camera path can work with camera and hardness software system.
- High-resolution optical system, indentation image very clear
- One-time casting shell with car paint
- Traditional keypad operation panel, long and stable working service time
- LED light source, service time more longer

### APPLICATION:

- Steel, nonferrous metals, tinsel, cemented carbide, sheet metal, metallographic structure.
- Carburization, nitriding and decarburization layer, surface hardening layer, galvanized coating, coating.
- Glass, chip and ceramic material.

### FEATURES:

- The optical system designed by our senior optical engineer not only meets the definition of hardness testing requirements but also can observe the microstructure of the material, the image is very clear.
- According to the different visual habits of the operators, the strength of the light source can be adjusted. To avoid visual fatigue for long time operation.
- With Vickers hardness and Knoop hardness testing capabilities. By measuring the indentation diagonal length, the hardness value will show on the screen directly, no need to check the hardness table.
- Industrial digital screen can direct display hardness value, conversion hardness, testing method, testing force, dwell time, testing times and testing process;
- Reserved CCD camera optical path, support machine work with computer and hardness measuring software system.



### TECHNICAL SPECIFICATIONS:

Model No.		HVH-5/10/30/50BA	HVH-5/10/30/50BM
Turret		Automatic	Manual
Hardness Scale & Test Force	HVH-5BA / HVH-5BM	HV0.3, HV0.5, HV1, HV2, HV3, HV5 0.3kg(2.94N), 0.5kg(4.9N), 1kg(9.8N), 2kg(19.6N), 3kg(29.4N), 5kg (49N)	
	HVH-10BA / HVH-10BM	HV0.3, HV0.5, HV1, HV3, HV5, HV10 0.3kg(2.94N), 0.5kg (4.9N), 1kg (9.8N), 3kg (29.4N), 5kg (49N), 10kg (98N)	
	HVH-30BA / HVH-30BM	HV1, HV3, HV5, HV10, HV20, HV30 1kg(9.8N),3kg(29.4N),5kg(49N),10kg(98N),20kg(196N), 30kg(294N)	
	HVH-50BA / HVH-50BM	HV1, HV5, HV10, HV20, HV30, HV50 1kg(9.8N), 5kg(49N), 10kg(98N), 20kg(196N), 30kg(294N), 50kg(490N)	
Hardness conversion scale		HRA, HRB, HRC, HRD, HK, HBS, H15N, H30N, H45N, H15T, H30T, H45T	
Loading speed		≤50μm/sec	
Min. Measuring Unit		0.01μm	
Indenter		Standard Rectangular pyramid diamond indenter (136°±0.5°)	
Hardness Value Range		5-3000HV, 8-4500HK	
Hardness Value of Reading		Digital LCD Screen	
Total Magnification		100X (For Observation), 200X (For Measurement)	
Loading Method		Automatically (Load, dwell, and unload)	
Dwell Time		1-99s (each step is 1 second)	
Maximum Height		175mm	
Throat depth		135mm	
Light Source		LED Cold light source	
Power Supply		220V + 5%, 50/60 Hz (110V is available)	
X-Y Testing Table (optional purchase)		Dim.: 100×100 mm, Max. Travel Range: 25×25mm, Moving Resolution Ratio: 0.01mm	
Instrument size & Net weight		600*220*700mm; 55kg	
Executed Standard		GB/T4340, ASTM E384 & E92, EN-ISO 6507-2, JIS B-7734	

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**STANDARD ACCESSORIES:**

Item Name	Q'ty	Item Name	Q'ty
10X electronic eyepiece	1 Pc	Hardness Conversion Tables	1 Pc
10X and 20X objective lens	1 Pc	Standard block of hardness	2 Pcs
Vickers indenter	1 Pc	Horizontal adjusting screw	4 Pcs
Level bubble	1 Pc	Manual Book	1 Pc
Large / Medium / V-shape Testing Table	1 Pc	Quality certificate	1 Pc
Power line	1 Pc	Warranty Card	1 Pc
Dustproof cover	1 Pc	Accessory case	1 Pc

**OPTIONAL ACCESSORIES:**

- Image analysis software
- Metallographic equipment
- Knoop Indenter @ Hardness block
- 15X micrometer eyepiece

LED Cold light source (can be continuous use for 24 hours, no heat generate ensure stable working, servicing life can reach 100,000 hours); Lightness can be adjusted, avoid visual fatigue of operator.



X-Y precise work table manual micrometer head, also can change to digital micrometer head (**optional purchase**)

Precision digital eyepiece (10X) with inbuilt encoder, automatic calculate


**Main Interface**

**Dual Optical path design**

**Printer & RS232 port**

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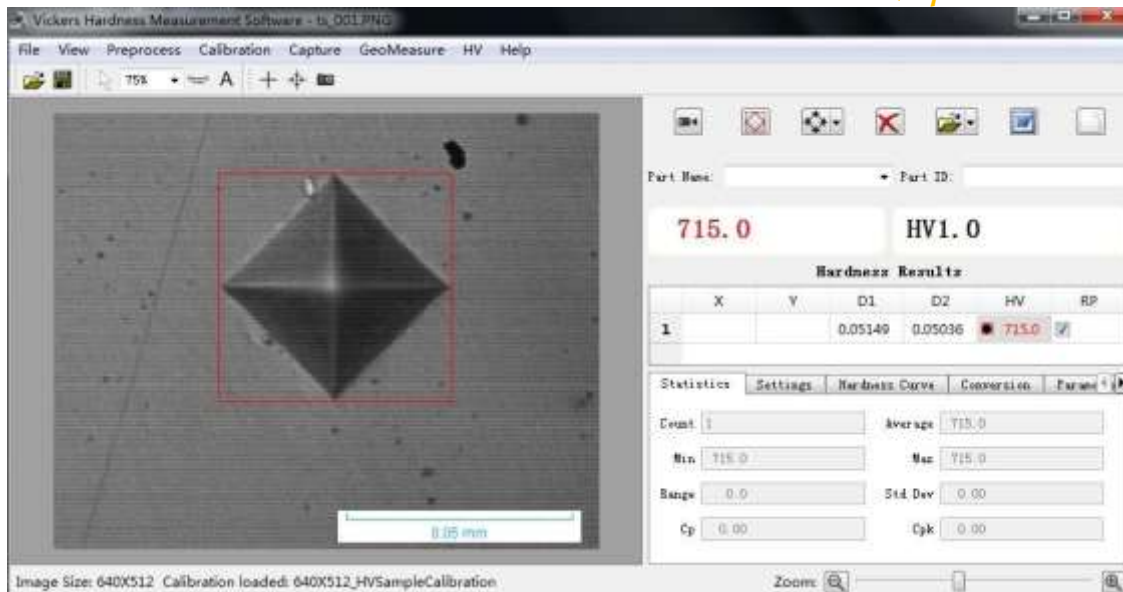
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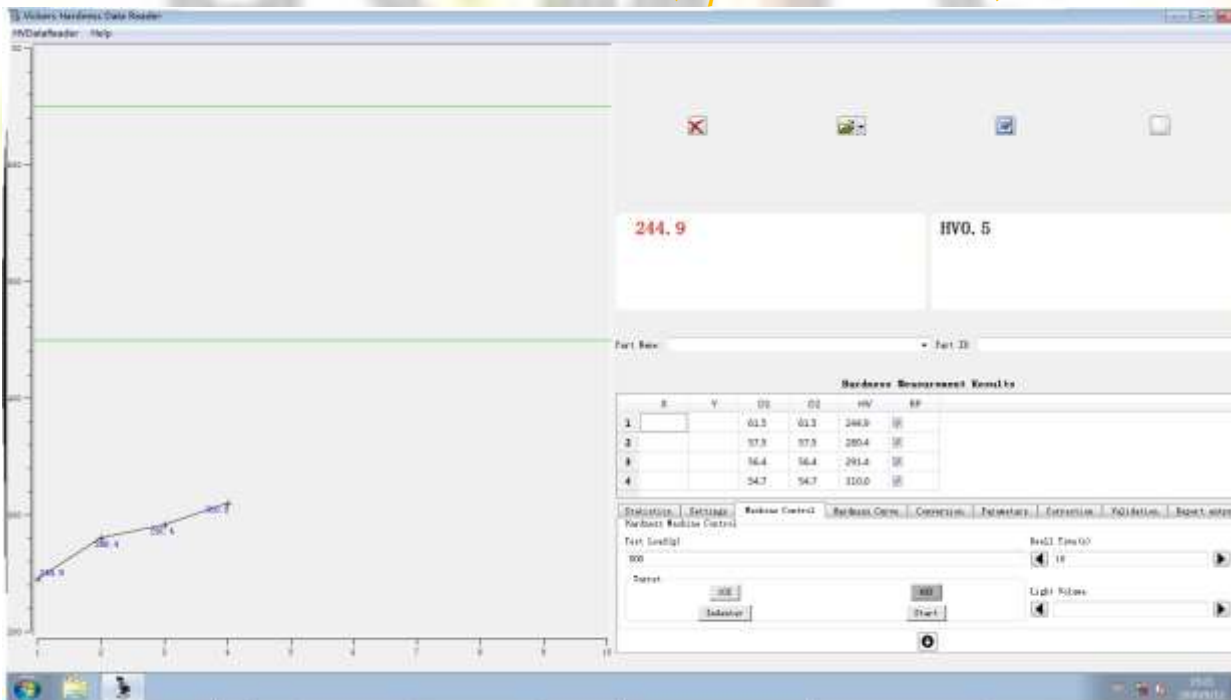


**BHVS-A Micro / Vickers Hardness Measurement Software (Optional Purchase 1)**



Software support automatic measurement & manual measurement, can generate test report automatically in word / Excel format, including hardness value, test force, indentation image and hardness curve, etc.

**Data Transfer Software (Optional Purchase 2)**



Software can control the machine turret and generate test report including hardness value curve (Via RS232 port). Software installs on the computer, connect with hardness tester through RS232 port. All the testing result can save to computer and generate test report in word format.