



VICKERS HARDNESS TESTER

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



BVH-A/M SERIES

**APPLICATION:**

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

FEATURES:

- With Vickers hardness and Knoop hardness testing capabilities. By measuring the indentation diagonal length, the hardness will show on the screen directly, no need to check hardness table.
- 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.
- Industrial digital screen can direct display hardness value, conversion hardness, and testing method, testing force, dwell time, testing times and 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.
- Reserved CCD camera optical path, support machine work with computer and hardness measuring software system.

TECHNICAL SPECIFICATIONS:

Model No.		BVH-5/10/30/50A	BVH-5/10/30/50M
Turret		Automatic	Manual
Test force & Hardness Scale	BVH-5A BVH-5M	0.3kg(2.94N), 0.5kg(4.9N), 1kg(9.8N), 2kg(19.6N), 3kg(29.4N), 5kg (49N) HV0.3, HV0.5, HV1, HV2, HV3, HV5	
	BVH-10A BVH-10M	0.3kg(2.94N), 0.5kg (4.9N), 1kg (9.8N), 3kg (29.4N), 5kg (49N), 10kg (98N) HV0.3, HV0.5, HV1, HV3, HV5, HV10	
	BVH-30A BVH-30M	1kg(9.8N),3kg(29.4N),5kg(49N),10kg(98N),20kg(196N), 30kg(294N) HV1, HV3, HV5, HV10, HV20, HV30	
	BVH-50A BVH-50M	1kg(9.8N), 5kg(49N), 10kg(98N), 20kg(196N), 30kg(294N), 50kg(490N) HV1, HV5, HV10, HV20, HV30, HV50	
	Hardness conversion scale	HRA, HRB, HRC, HRD, HK, HBS, H15N, H30N, H45N, H15T, H30T, H45T	
Loading speed	≤50μm/sec		
Min. Measuring Unit	0.02μm		
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	180mm (160mm if work with XY work table)		
Throat depth	125mm		
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 and Net weight	600*220*700mm; 55kg		
Executed Standard	GB/T4340, ASTM E384 & E92, EN-ISO 6507-2, JIS B-7734		

**STANDARD ACCESSORIES:**

Item Name	Q'ty	Item Name	Q'ty
10X micro meter eyepiece	1 pc	Hardness Conversion Tables	1 pc
10X and 20X objective lens	1 pc	Large / Medium / V-shape Testing Table	1 pc
Vickers indenter	1 pc	Standard block of hardness	2 pcs
Level bubble	1 pc	Horizontal adjusting screw 5kg/10kg model	3 pcs
Power line	1 pc	Horizontal adjusting screw 30kg/50kg model	4 pcs
Dust proof cover	1 pc	Manual Book	1 pc
Accessory case	1 pc	Quality certificate & Warranty Card	1 pc

OPTIONAL ACCESSORIES:

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