



MANUAL/AUTOMATIC TURRET VICKERS HARDNESS TESTER



BVH-A/M SERIES

MAIN FEATURES: -

1. 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.
2. 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.
3. Industrial digital screen can direct display hardness value, conversion hardness, testing method, testing force, dwell time, testing times and testing process;
4. 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.
5. Reserved CCD camera optical path, support machine work with computer and hardness measuring software system.

**MAIN PURPOSE AND APPLICATION: -**

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

SPECIFICATION: -

Model		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		1 piece:10X micrometereyepiece ; 10X and 20X objective lens; Vickers indenter; Level bubble; Large / Medium / V-shape Testing Table; Power line; Dust proof cover; Manual Book; Hardness Conversion Tables; Quality certificate; Warranty Card; Accessory case 2 pieces: Standard block of hardness 4 pieces: horizontal adjusting screw5kg/10kg model: 3 pieces of weights; 30kg/50kg model: 4 pieces of weights.	
Optional Purchase Accessories		Image analysis software; Metallographic equipment; Knoop Indenter; hardness block; 15X micrometer eyepiece	