

# ADVANCED DIGITAL VICKERS HARDNESS TESTER WITH TOUCHSCREEN CONTROL



### **DESCRIPTION**

Automatic loading - dwell - unloading

ISO 9001: 2015

- 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

Registered Office: UGF-12 Ansal Plaza-1 Chiranjeev Vihar Ghaziabad-201002 (U.P.) INDIA Workshop: Khasra No - 63 Village Bayana, Near Wave City, NH 24, Ghaziabad -201015 (U.P.) INDIA

Phone: +91- 8750305291

Email: info@hsmleindia.in / sales@hsmleindia.com

Website: www.hopesmluckyenterprises.in / www.hsmleindia.com (Under Construction)



ISO 9001: 2015

# **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 meet the definition of hardness testing requirements but also can observe the microstructure of the material, image is very clear.
- According to the 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. By measuring the indentation diagonal length, the hardness value will show on the screen directly, no need to check hardness table.
- Large size touch 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.



Phone: +91-8750305291

Email: info@hsmleindia.in / sales@hsmleindia.com

Website: www.hopesmluckyenterprises.in / www.hsmleindia.com (Under Construction)



## **TECHNICAL SPECIFICATIONS**

Model No.		HVH-5/10/30/50AT	HVH-5/10/30/50MT
Turret		Automatic	Manual
	HVH-5AT HVH-5MT	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)	
Hardness Scale	HVH-10AT HVH-10MT	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) HV1, HV3, HV5, HV10, HV20, HV30 1kg(9.8N),3kg(29.4N),5kg(49N),10kg(98N),20kg(196N), 30kg(294N) HV1, HV5, HV10, HV20, HV30, HV50	
& Test Force	HVH-30AT HVH-30MT HVH-50AT		
	HVH-50MT	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	
Data Display		Touch 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		Dim.: 100×100 mm, Max. Travel Range: 25×25mm,	
(optional purchase)		Moving Resolution Ratio: 0.01mm	
Instrument size and Net weight		600*220*700mm; 55kg	
<b>Executed Standard</b>		GB/T4340, ASTM E384 & E92, EN-ISO 6507-2, JIS B-7734	
Standard Accessories		1. piece: 10X electronic eyepiece ; 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	
		3. 4 pieces: horizontal adjusting screw	
Optional Accessories		Image analysis software; Metallographic equipment; Knoop Indenter;	
		hardness block; 15X micrometer eyepiece	

ISO 9001: 2015

Registered Office: UGF-12 Ansal Plaza-1 Chiranjeev Vihar Ghaziabad-201002 (U.P.) INDIA Workshop: Khasra No - 63 Village Bayana, Near Wave City, NH 24, Ghaziabad -201015 (U.P.) INDIA

Phone: +91-8750305291

Email: info@hsmleindia.in / sales@hsmleindia.com
Website: www.hopesmluckyenterprises.in / www.hsmleindia.com (Under Construction)



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** 

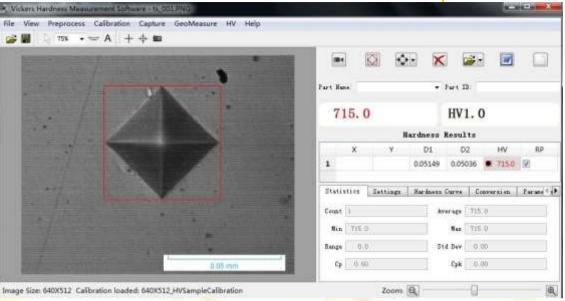
Registered Office: UGF-12 Ansal Plaza-1 Chiranjeev Vihar Ghaziabad-201002 (U.P.) INDIA Workshop: Khasra No - 63 Village Bayana, Near Wave City, NH 24, Ghaziabad -201015 (U.P.) INDIA

Phone: +91-8750305291

Email: info@hsmleindia.in / sales@hsmleindia.com
Website: www.hopesmluckyenterprises.in / www.hsmleindia.com (Under Construction)



#### HVS-A Micro / Vickers Hardness Measurement Software (Optional Purchase)



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.

Registered Office: UGF-12 Ansal Plaza-1 Chiranjeev Vihar Ghaziabad-201002 (U.P.) INDIA Workshop: Khasra No - 63 Village Bayana, Near Wave City, NH 24, Ghaziabad -201015 (U.P.) INDIA

Phone: +91-8750305291

Email: info@hsmleindia.in / sales@hsmleindia.com

Website: www.hopesmluckyenterprises.in / www.hsmleindia.com (Under Construction)