

TOUCHSCREEN DIGITAL VICKERS HARDNESS TESTER HVH-5-10-30-50AT-8 & MT-8



DESCRIPTION

Digital Macro Vickers hardness tester is a high-tech and new product combining the optics, mechanic and electrics features. It improves the precision of the test force and the repeatability and stability of the value. indicating With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly shows the test force. indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring length, indentation it can automatically get the hardness value and shows on the screen.

APPLICATION:

- Widely used to test the hardness of all kinds of metal materials (steel, nonferrous metals, tinsel, cemented carbide, sheet metal, etc.)
- Surface layer/coating (Carburization, nitriding, decarburization layer, surface hardening layer, galvanized coating, etc.)

 Glass, chip, ceramic, plastic and rubber, etc.



Optional Purchase XY worktable

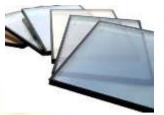
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ISO 9001: 2015

Metal material

Surface coating

Glass material

ceramic material Plastic/ rubber

TECHNICAL SPECIFICATIONS:

Model No.		HVH-5/10/30/50AT-8	HVH-5/10/30/50MT-8	
	Turret	Automatic turret	Manual turret	
Loading Method		Automatic (Loading/Dwell/Unloading)		
Test Range		8HV-2900HV		
Test Force	HVH-5AT-8 HVH-5MT-8	0.3Kgf(2.94N), 0.5Kgf(4.9N), 1.0Kgf(9.8N), 2.0Kgf(19.6N), 3.0Kgf(29.4N), 5.0Kgf(49.0N)		
Hardness Sca	ale	HV0.3, HV0.5, HV1, HV2, HV3, HV5		
Test Force	HVH-10AT-8 HVH-10MT-8	0.3Kgf(2.94N), 0.5Kgf(4.9N), 1.0Kgf(9.8N), 3.0Kgf(29.4N), 5.0Kgf(49.0N), 10Kgf(98.0N		
Hardness Sca	ale	HV0.3, HV0.5, HV1, HV3, HV5, HV10		
Test Force HVH-30AT-8 HVH-30MT-8		1.0Kgf(9.8N), 3.0Kgf(29.4N), 5.0Kgf(49.0N), 10Kgf(98.0N), 20Kgf(196N), 30Kgf(294N)		
Hardness Scale		HV1, HV3, HV5, HV10, HV20, HV30		
Test Force	HVH-50AT-8	1.0Kgf, 5.0Kgf, 10Kgf, 20Kgf, 30Kgf, 50Kgf		
Hardness Scale HVH-50MT-8		HV1, HV5, HV10, HV20, HV30, HV50		
Dwell Time		1-99s		
[<mark>Data Display</mark>	8'' Touch screen		
Min	measuring unit	0.01µm		
	Eyepiece	10X digital eyepiece with built-in encoder, auto calculate		
Objective	HVH-5AT-8 HVH-5MT-8 HVH-10AT-8 HVH-10MT-8	10X (observe), 20X (measurement)	; Total Magnification: 100X, 200X	
	HVH-30AT-8 HVH-30MT-8 HVH-50AT-8 HVH-50MT-8	10X (observe & measurement); To	tal Magnification: 100X	
Light Source		LED Cold light source (can be continuous use for 24 hours, no heat generate ensure stable working, servicing life can reach 100,000 hours)		
Test space		160x135mm (height x depth)		
Power Supply		AC220V, 50Hz		
Execute Standard		ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2		
Size / Net weight		600*220*700mm; 50kg		
Package size / G.W		800*470*800mm; 78kg		

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STANDARD ACCESSORIES:

Name	Qty	Name	Qty
Instrument Main Body	1 set	10X Digital Measuring Eyepiece	1 pc
Weights	3 pcs	10X & 20X Objective	2 pcs
Large/Middle/V shape testing table	3 pcs	Diamond Vickers Indenter	1 pc
Horizontal Regulating Screw	4 pcs	Level	1 pc
Fuse 2A	2 pcs	Power Cable	1 pc
Touch Screen pen	1 pc	Allen wrench (2.5mm)	1 pc
Anti-dust Cover	1 pc	Standard Hardness Block	2 pcs
Warranty certificate	1 pc	Usage Instruction Manual	1 сору

OPERATION INTERFACE:



Main interface Calibration

Note:

- 1) 5kg, 10kg Vlckers hardness tester with 10X and 20X objective lens; 30kg, 50kg Vlckers hardness tester only with 10X objective lens.
- 2) 5kg, 10kg Vickers hardness tester with 3 pieces weights; 30kg, 50kg Vickers hardness tester with 4 pieces of weights.

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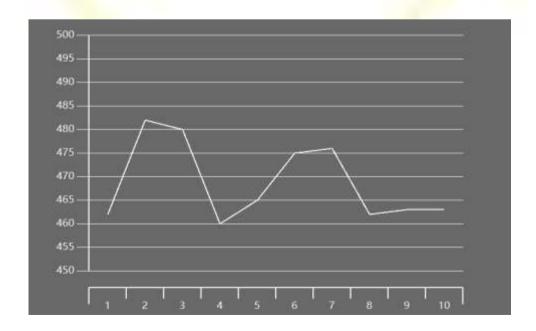
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Hardness Test Report

Tester		Date		2019/09/05	
Part Name		Part #			
Part Size		Test Standard			
Quality UL		Quality LL			
		Test Result			
#	Hardness	Force	Dwell Time	Average D	
1	462	30	10	347.013	
2	482	30	10	339.737	
3	480	30	10	340.444	
4	460	30	10	347.767	
5	465	30	10	345.892	
6	475	30	10	342.231	
7	476	30	10	341.872	
8	462	30	10	347.013	
9	463	30	10	346.638	
10	463	30	10	346.638	



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Tools Configuration Device Data 放性物 61.5 11 732.8 HRC Hardness Type Qualified D1(um) DZſu Davo 50.047 49.665 49.772 49.771 49.909 50.418 50.039 49.220 HYHY Edit Delete Clear Statistics Machine Control Statistics Info Album Impress Turnet Lightness Objective 40X Load Time(s) Hardness Level

Professional HV-HK Hardness Measurement Software (Optional purchase)

FUNCTIONS:

- 1. Auto hardness measurement: With a click of a button, the software automatically measures the diagonals of the indentation, calculates the hardness value and the statistics (also support manual measurement);
- 2. Hardness curve: With the depths of test points by user input, the software automatically plots the hardness curve(s); User may save and load the depths in a depth template file for later testing for convenience;
- 3. Hardness Conversion: Converts HV to other hardness scales (HRA, HRB, HRC, HBW, HK, etc.)



X: 997

Y: 508

System Status: Normal Camera Status: Off

4. Data remember / Store function: All data in the process of measurement will be saved in the right bottom sheet.

Seq	Mea.Time	D1 (µm)	D2 (µm)	DAvg (µm)	HA	XPos (mm)
1	15:48:39	40.89	41.20	41.05	550.00	0.000
2	15:53:33	44.31	36.63	30.41	566.00	0.000
3	15:53:55	91.43	91.22	91.33	111.00	0.000
						0.000

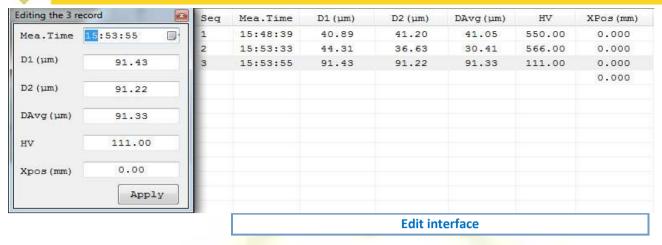
And all measurement data can be 'edit, delete, statistic, report'

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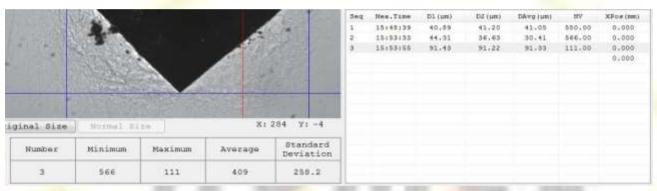
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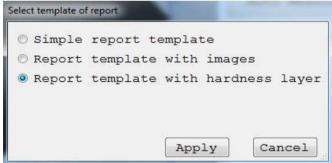


5. Statistics: Automatically updates the statistical values such as average, min and max, standard deviation;



Calculate interface

6. Test report: Automatically generates WORD report with customizable template;



- 7. Data archiving: Measurement data and images can be saved in one file for later retrieval;
- 8. Knoop Scale: Can be configured for Knoop Scale measurement;

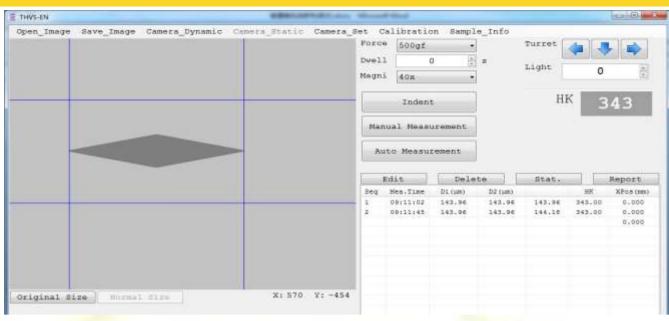
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- 9. Other Functions: Includes the basic functions of imaging system such as image capture, camera calibration, image processing, etc.
- 10. Came<mark>ra can built in machine</mark>, no dust dirt and more safe. Software can adjust machine lightness, and can do indentation image Measure and analysis work; Generate test report in word format.



