

Micro Vickers Hardness Tester



Add: 6th Floor, Nguyen Hung Phu Building, 400 Nguyen Thi Thap Street,
Tan Quy Ward, District 7, HCMC, Vietnam

TEL: 08-8-37711635 FAX: 08-37711691

E-mail : contact_vn@tamsui.jp





Website : <http://tamsui.vn/>





Micro Vickers Hardness Tester

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Micro Vickers Hardness Tester

		 Easy to read Large LCD Screen		
Model No.	THMV-S1	TMHV-S1	THMV-S2	TMHV-S2
Measurement Method	----			
Test Forces	N	0.098, 0.246, 0.49, 0.98, 1.96, 2.94, 4.90, 9.80	0.098, 0.246, 0.49, 0.98, 1.96, 2.94, 4.90, 9.80, 19.61	
	gf	10, 25, 50, 100, 200, 300, 500, 1000	10, 25, 50, 100, 200, 300, 500, 1000, 2000	
Carriage Control	Automatic (loading/holding-up of the load/unloading)			
Holding time	(5~60)s			
Amplification of the microscope	100 × , 400 ×			
Min. measuring resolution Rate	0.01um			
Testing field	1HV ~ 2967HV			
Output	Built-in printer and a RS232 serial interface			
Lens / indenter switch	With Motorized Turret			

Option	THV-LCD	THV-CCD
		
	With Video Measuring Device ➤P.5	With Computer automatic measuring System ➤P.6

THMV-S1

Digital Micro Vickers Hardness Tester

Features:

- THMV-S1 Digital Micro Vickers Hardness Tester made with a unique and precision design in the field of mechanics, optics and light source, is able to produce a clearer image of indentation and hence a more precise measurement.
- By means of a 10 × objective and a 40 × objective for measurement, the tester has a wider measurement field and a broader usage range.
- It shows measuring method, the testing force value, the indentation length, hardness value, the dwell time of the testing force, as well as the number of measurement on its LCD screen.
- Beside, it has such functions as registering year, month and date, measuring result, treating data, outputting information with its built-in printer.
- The tester has a threaded interface that can be linked to the and CCD pickup camera, and a RS232 interface as well.
- THMV-S1 tester adopts automatically exchange device (automatically turning turret) for its indenter and objectives, there for the operation for present tester is more easily.
- According to user's requirement, the tester also can measure Knoop hardness value after equipping a Knoop indenter.



Usage Range

- Ferrous metals, non-ferrous metals, IC thin sections, coating, ply-metals;
- Glass, ceramics, agate, precious stone, thin plastic sections, etc.
- Hardness testing such as that on the depth and the trapezium of the carbonized layers and quenched layers.

Technical parameters:

Measurement Method	HV / HK		
Test Forces	N	0.098, 0.246, 0.49, 0.98, 1.96, 2.94, 4.90, 9.80	
	gf	10, 25, 50, 100, 200, 300, 500, 1000	
Carriage Control	Automatic (loading/holding-up of the load/unloading)		
Amplification of the microscope	100 × , 400 ×	Min. measuring resolution Rate	0.01um
Testing field	1HV ~ 2967HV	Output	Built-in printer and a RS232 serial interface
Lens / indenter switch	With Motorized Turret	Holding time	(5~60)s
Dimension of the XY table	100 × 100mm	Movement field of the XY table	25 × 25mm
Max. height of the specimen	100mm	Max. width of the specimen	98mm
Light source	Halogen lamp	Power	110V/220V, 60/50Hz
Standard accessories	Vickers Indenter, Objective:(10 × , 40 ×), 10 × Digital Micro Lens, XY-stage test table, Thin specimen test table, Fork-shaped test table, Fine wire test table, Adjustable screw, Lever, RS232Interface, Micro Vickers hardness blocks		
Package Dimension	596 × 365 × 780 mm	Weight	44 kg

TMHV-S1

Digital Micro Vickers Hardness Tester

Features:

- MHV-1000 Micro Vickers Hardness Tester made with a unique and precision design in the field of mechanics ,optics and light source is able to produce a clearer indentation and hence a more precise measurement.
- By means of a 10 x lens and a 40 x lens the tester has a wider measurement field and a broader usage range.
- Equipped with a large LCD screen.
- The operation is more directly and clearly. It shows the measuring methods, the testing force, the indentation length, hardness value, the dwell time of the testing force as well as the number of the measurement on its LCD screen .
- Besides, it has such functions as registering the date, and measuring results , treating the data , outputting the information with the printer,exchanging the scales among the 17 scales , saving date and linking RS232 interface.
- The tester has a threaded interface which can be linked to CCD pickup camera.



Usage Range

- Ferrous metals, non-ferrous metals, IC thin sections, coating, ply-metals ;
- Glass, ceramics, agate,precious stone, thin plastic sections, etc.
- Hardness testing such as that on the depth and the trapezium of the carbonized layers and quenched layers.

Technical parameters:

Measurement Method	HV / HK		
Test Forces	N	0.098, 0.246, 0.49, 0.98, 1.96, 2.94, 4.90, 9.80	
	gf	10, 25, 50, 100, 200, 300, 500, 1000	
Carriage Control	Automatic (loading/holding-up of the load/unloading)		
Amplification of the microscope	100 × , 400 ×	Min. measuring resolution Rate	0.01um
Testing field	1HV ~ 2967HV	Output	Built-in printer and a RS232 serial interface
Lens / indenter switch	With Motorized Turret	Holding time	(5~60)s
Dimension of the XY table	100 × 100mm	Movement field of the XY table	25 × 25mm
Max. height of the specimen	100mm	Max. width of the specimen	98mm
Light source	Halogen lamp	Power	110V/220V,60/50Hz
Package Dimension	596 × 365 × 780 mm	Weight	44 kg
Standard accessories	Vickers Indenter、Objective:(10 ×、40 ×)、10 × Digital Micro Lens、XY-stage test table、Thin specimen test table、Fork-shaped test table、Fine wire test table、Adjustable screw、Lever、RS232Interface、Micro Vickers hardness blocks		

THV-LCD

THV-LCD Series Video Measuring Digital Micro Vickers Hardness Tester



You can choose

THMV-S1 / S2

TMHV-S1 / S2

This is a new type hardness tester which is equipped a PS-2006 Video Measuring Device on the main body of Digital Micro Vickers Hardness Tester.

Description:

- PS-2006 Video Measuring Device is composed of CCD measuring equipment, 6.8 inch colored LCD and other relative components.
- With PS-2006 Video Measuring Device, the indentation originally shown on objective of hardness tester is now display on the LCD directly.
- The working procedure is more visual and measuring is more accurate. Avoid seeing weariness and man-made error, and increase working efficiency. Many people can observe the working process at the same time. So the tester is warmly welcomed by many operators.

THV-CCD

THV-CCD Series Automatically Image Measuring Digital Micro Vickers Hardness Tester



It combines computer automatic measuring system with Micro Vickers Hardness tester .

You can choose

THMV-S1 / S2

TMHV-S1 / S2

Description:

- By means of CCD Camera interface, connect micro Vickers hardness tester with computer.
- Whole testing operation can be processed by operating keyboard and mouse, therefore the operation is easy and measuring precision is high.
- Maximum decrease man-made error and avoid seeing weariness of the operator. It is an advance hardness tester which can meet the needs of various Digital Micro Vickers hardness testing.

Technical Function and Characteristics:

- ◆ Measuring and control system of the tester adopts high-resolving power image device to display indentation clearly on the screen of computer.
- ◆ Transformed signal by software, automatically measure hardness value of testing indentation.
- ◆ According to the process of point testing and continuously testing, make out the curve drawings of depth and trapezium.
- ◆ Support WIN9X, WINNT, WIN2000, WINXP etc. Operating system.
- ◆ It can test micro Vickers, Knoop, carburized layers, etc.
- ◆ Hardness value can be automatically exchanged with many methods.
- ◆ According to your requirement, you can select high power or low power objective.
- ◆ Definition of image: >540
- ◆ It can adjust contrast and brightness etc. of indentation image.
- ◆ It can dispose image file and date file to open, memory, print etc
- ◆ It can look into the data file and image file at any time, Data file is printed to adopt table format and curvilinear format.
- ◆ Besides standard accessories of original base instrument, this tester also equipped with special tube camera. Computer Printer, etc.