

Digital Micro Vickers Hardness Tester

Model: DHV-1000/ DHV-1000Z



1, General introduction

Micro Hardness Tester is a key piece of equipment that is indispensable to metallographic research, product quality control, and the development of product certification materials.

1, DHV-1000/1000Z Digital Micro Vickers Hardness Tester made with a unique and precise design in the field of mechanics ,optics and light source is able to produce a clearer indentation and hence a more precise measurement.

2, Adopts a 10* objectives, 40* objectives and 10* digital microscope enable the tester a wider measurement field and broader usage range.

3, Equipped with a digital microscope, display testing method, test force, indentation length, hardness value, dwell time of test force as well as the number of measuring times, all shown on LCD screen.

4, With a special thread interface, can link a video measuring device and indentation automatically measuring device without changing optical path.

5, The CCD pickup camera device and image handling system can be equipped on the tester as optional;

6, Knoop indenter is optional.

2, References

ASTM E384 "Standard Test Method for Microindentation Hardness of Materials"

ISO 6507 "Metallic materials -- Vickers hardness test"

3, Main technical specification

Model		DHV-1000	DHV-1000Z
Test Force	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	
Lens/indenter switch		Manual	Automatic Motorized Turret
Force loading mode		Automatic loading, holding and unloading	
Holding time		0-60S	
Amplification of microscope		100*, 400*	
Min. measuring resolution rate		0.0315μm	
Testing field		1HV~2967HV	
Dimension of XY table		100*100mm	
Moving range of XY table		25*25mm	
Max. height of test sample		70mm	
Max.width of test sample		95mm	
Output		With built-in printer	
Light source		Halogen light	
Power		AC 220V, 50/60HZ	
Dimensions		425*245*490mm	
Net Weight		35Kg	
Standard Accessories		Vickers indenter; Objectives (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, RS232 interface; Micro vickers hardness block; Manual etc.	

Large LCD Micro Vickers Hardness Tester

Model: HVS-1000/HVS-1000Z



1, General introduction

Micro Hardness Tester is a key piece of equipment that is indispensable to metallographic research, product quality control, and the development of product certification materials.

1, HVS-1000/1000Z Digital Micro Vickers Hardness Tester made with a unique and precise design in the field of mechanics, optics and light source is able to produce a clearer indentation and hence a more precise measurement. HVS tester have two selections, large screen and small screen.

2, Adopts a 10* objectives, 40* objectives and 10* digital microscope enable the tester a wider measurement field and broader usage range.

3, It shows testing method, test force, indentation length, hardness value, dwell time of test force as well as the number of measuring times, all shown on LCD screen. On the screen can also input testing date, like year, month, day, measuring result, analysis result etc.;

4, With a special thread interface, can link a video measuring device and indentation automatically measuring device without changing optical path.

5, The CCD pickup camera device and image handling system can be equipped on the tester as optional;

6, Knoop indenter is optional;

2, References

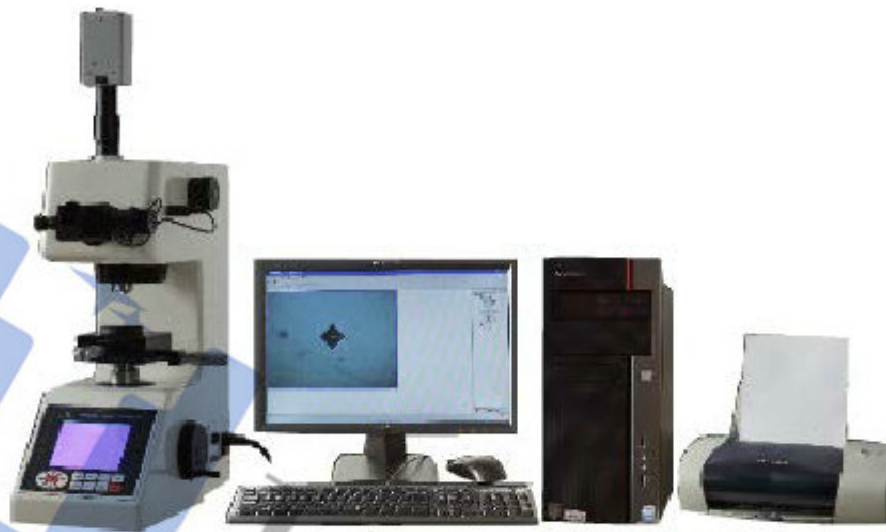
ASTM E384 "Standard Test Method for Microindentation Hardness of Materials"

ISO 6507 "Metallic materials -- Vickers hardness test"

3, Main technical specification

Model		HVS-1000	HVS-1000Z
Test Force	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	
Lens/indenter switch		Manual	Automatic Motorized Turret
Force loading mode		Automatic loading, holding and unloading	
Holding time		5-60S	
Amplification of microscope		100*, 400*	
Min. measuring resolution rate		0.0315μm	
Testing field		1HV~2967HV	
Dimension of XY table		100*100mm	
Moving range of XY table		25*25mm	
Max. height of test sample		75mm	
Max.width of test sample		95mm	
Output		With built-in printer and RS232 serial interface	
Light source		Halogen light	
Power		AC 220V, 50/60HZ	
Net Weight		35Kg	
Standard Accessories		Vickers indenter; Objectives (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, RS232 interface; Micro vickers hardness block; Manual etc.	

HV-CCD Series Automatically Image Measuring Digital Brinell/ Micro Vickers Hardness Tester



1, General introduction

HV-CCD System combines computer automatic measuring system with hardness tester .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 h error and avoid seeing weariness of the operator. It is an advance hardness tester which can meet the needs of various Digital Brinell/Micro Vickers hardness testing.

2, Feature

- 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.
- It can test micro Vickers, Knoop, carburized layers etc.
- Hardness value can be automatically exchanged with many methods.
- According to your requirement, customer can select high power or low power objective.
- Definition of image:>570
- It can adjust contrast and brightness etc., of indentation image.
- It can dispose image file and date file to open, save, 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.
- The Computer Automatic Measuring System can also be equipped on various models of our serial Digital Brinell Micro Vickers Hardness Testers such as DHV-1000, HVS-1000.
- Besides standard accessories of original base instrument, this tester also equipped with special tube camera. Computer Printer, etc.,