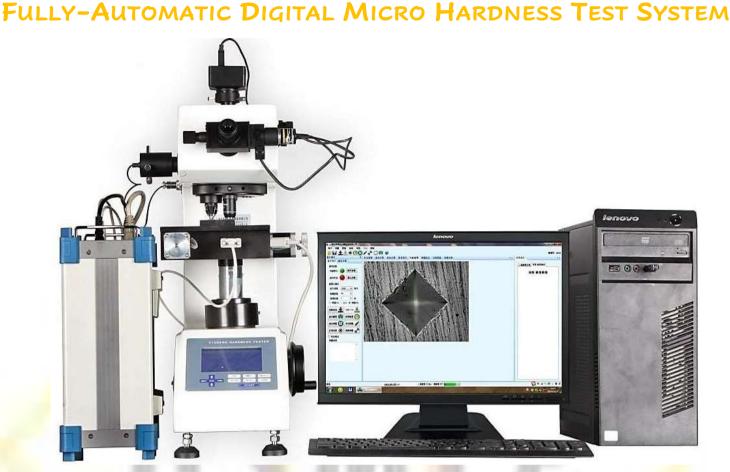
ISO 9001 : 2015



DESCRIPTION

The AVHD-1000XYZ is Fully-Automatic Digital Micro Hardness Test System integrated with latest professional technique (optical projection, mechanic shift, electric control, digital projection, image analysis, and computer process etc.). The computer can control hardness tester and automatic working stage via software, and indicate the indentation on the screen by digitization, then test the microhardness of metal parts of a non-metal material, plating, hardening depth, coating thickness, film thickness, and the distance between two points by automatic reading or manual reading; meanwhile, it can take the picture of surface appearance of metal, and print in fixed ratio. This system breaks through the traditional test method, completes the full automatic, high accuracy, high repeatability test; it is the important equipment for analysis material. In this Micro Vickers hardness test system, the computer controls the hardness tester working and receiving the information of hardness tester via RS-232 port; the Computer control the control box of a working stage through RS232, and control box control working stage moving and receiving the information; The optical signal of indentation via digital camera will transfer indentation image to a computer screen, then get the Vickers hardness value by manual or automatic reading.

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TECHNICAL SPECIFICATIONS

	I	
1	Automatic	Automatic focus (Grad the clearest image automatically) Automatic
	measurement	turret (Objective lens—indenter—objective lens automatically switch)
	model	Automatic loading/unloading (automatic loading—dwelling—unloading)
		Automatic stage + automatic reading (Result displayed automatically)
2	Follow	GB/T4340, ASTM E-384, International Standard ISO/DIS 6507-2, JIS B7734
	standard	
3	Load	10g(0.098N), 25g(0.245N), 50g(0.49N), 100g(0.98N), 200g(1.96N),
	measurement	300g(2.94N), 500g(4.9N), 1000g(9.8N), 2000g(19.6N)
4	Scale of	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1, HV2
	hardness	
5	Dwelling time	1~99s (each step is 1 second)
6	Indenter	Four pyramidal diamond indenters (Angle 136°±0.5°)
7	Objective and	10X and 40X objective lens, 10 X eyepiece Omron brand
	eyepiece	,
8	The host screen	Big screen high definition LCD display
9	Measuring	Max height 85mm Max depth 115mm
	specimen	
10	Light source	LED cold light source (can be used 24hours continuously, does not
		produce heat, can adjust thestrength of light).
11	Data output	Configuration data transmission data software - can transmitted the
		measurement data to the computer in variety of formats, and can remove
		measurement data by software.
12		
	Qualified	Enter upper and lower limit, qualified and unqualified judge display and
	Qualified determination	Enter upper and lower limit, qualified and unqualified judge display and output.
13	determination	
13	determination function	output.
13	determination function Hardness	output. Converted to any hardness value of the scale and meet the international
13	determination function Hardness	Output. Converted to any hardness value of the scale and meet the international standard.
	determination function Hardness conversion	output. Converted to any hardness value of the scale and meet the international standard. Automatically objective table parameters
14	determination function Hardness conversion Table size	Output. Converted to any hardness value of the scale and meet the international standard. Automatically objective table parameters 200*200mm
14 15	determination function Hardness conversion Table size Driver mode	Converted to any hardness value of the scale and meet the international standard. Automatically objective table parameters 200*200mm Control the X- Y axis move freely by software
14 15	determination function Hardness conversion Table size Driver mode Max mobile	Converted to any hardness value of the scale and meet the international standard. Automatically objective table parameters 200*200mm Control the X- Y axis move freely by software
14 15 16	determination function Hardness conversion Table size Driver mode Max mobile distance	Converted to any hardness value of the scale and meet the international standard. Automatically objective table parameters 200*200mm Control the X- Y axis move freely by software 50*50mm

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		Image processing system
19	PC configuration	At least I3/500G/2G/19inch display
20		Effective physical pivel 1 2 million
	camera	Effective physical pixel ≥ 1.3 million
21	Image	Through hardness tester serial communication, realize the
	processing system software	system and hardness tester linkage.
21	Image	Real-time display hardness image, convert the signal
	processing	through software, measure indentation hardness value
	system software	automatically, measurement speed is less than 1s.
		Set by the software, realizes automatic measurement
		Can convert micro hardness tester to Brinell, Rockwell
		hardness values, and real-time display.
		Can adjust the contrast, brightness of indentation image.
		Can operate edge detection for finish not good enough
		samp <mark>le of</mark> indentation.
		Horizontal line movement: horizontal distance, can set
		spacing arbitrarily and have zigzag measurement function.
		Vertical movement: vertical distance movement, can set
		spacing arbitrarily and have zigzag measurement function.
		Angle linear groups: arbitrary angle direction of the straight-
		line distance moving, can set spacing arbitrarily and have
		function of zigzag measurement.
		Random number test 1: mouse click or input coordinates test
		at any position.
		Random number test 2:test a reference coordinate system of
		the random number test mode.
		Dot in the distance between any two points, can set spacing
		arbitrarily.
		Matrix: can automatically recognize sample outline and to
		set the spacing of sample to overall hardness testing.
		The origin position arbitrarily set, automatic reset, mechanical limit,
		and other professional functions.

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Standard configuration list

No.	Device name	QtY	Unit
1	Micro Vickers hardness tester host Standard diamond Vickers indenter	1	set
2	Standard Diamond Vickers Indenter		pc
3	Objective lens (10x, 40x)		pc
4	Flat fixture, chip fixture, filaments fixture		рc
5	Standard test piece HVO.2, HV1		pcs
6	10X Omron micrometer eyepiece		pcs
7	Level adjust foot		pcs
8	Gradient	1	pc
9	Dust cover	1	pc
10	Power line	1	рс
11	Fuse	1	set
12	Warranty card	1	рс
13	Assistive tools	1	рс
14	Operation and maintenance manuals		рс
15	13/5006/26 Lenovo PC		set
16	19inch Lenovo LED display	1	рс
17	Data transmission software	1	рс
18	Image analysis hardness control software	1	рс
19	X-Y automatic object stage and driving box (Table size 200x200mm, 50x50mm) Journey	1	pc
20	CCD Imagine collection machine (Physical pixel?1.3 million)	1	рс
21	System connection cable	1	pc
22	Camera interface	1	рс

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