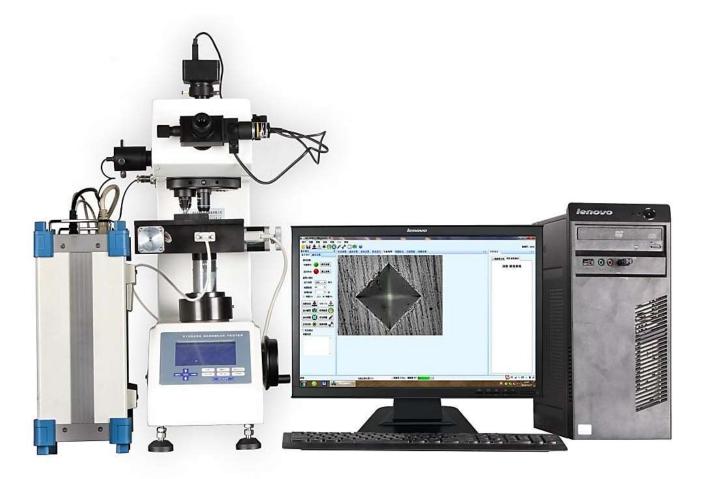


FULLY AUTOMATIC DIGITAL MICRO HARDNESS TESTER



AVHD-1000XYZ

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 micro hardness of metal parts of non-metal material, plating, harden 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, complete 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 control the control box of working stage through RS232, and control box control working stage moving and receiving the information via digital camera will transfer indentation image to computer screen, then get the Vickers hardness value by manual or automatic reading.

49/39, Site IV Ind Area, Sahibabad, Ghaziabad - 201010, Uttar Pradesh. India



The Precision Measurement People

TECHNICAL SPECIFICATIONS: -

No.	Technical description	Specification		
1	Automatic measurement model	Automatic focus (Grad the clearest image automatically) Automatic turret (Objective lens—indenter—objective lens automatically switch) Automatic loading/unloading (automatic loading—dwelling—unloading) Automatic stage + automatic reading (Result displayed automatically)		
2	Follow standard	GB/T4340, ASTM E-384, International Standard ISO/DIS 6507-2, JIS B- 7734		
3	Load measurement	10g(0.098N), 25g(0.245N), 50g(0.49N), 100g(0.98N), 200g(1.96N), 300g(2.94N), 500g(4.9N), 1000g(9.8N), 2000g(19.6N)		
4	Scale of hardness	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1, HV2		
5	Dwelling time	1~99s (each step is 1 second)		
6	Indenter	Four pyramidal diamond indenters (Angle 136°±0.5°)		
7	Objective and eyepiece	10X and 40X objective lens, 10 X eyepiece Omron brand		
8	The host screen	Big screen high definition LCD display		
9	Measuring specimen	Max height 85mm Max depth 115mm		
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 determination function	Enter upper and lower limit, qualified and unqualified judge display and output.		
13	Hardness conversion	Converted to any hardness value of the scale, and meet the international standard.		
	Α	utomatically objective table parameters		
14	Table size	200*200mm		
15	Driver mode	Control the X- Y axis move freely by software		
16	Max mobile distance	50*50mm		
17	Mini. Mobile distance	1µm		
18	Move speed	Adjustable		
		Image processing system		
19	PC configuration	At least I3/500G/2G/19inch display		
20	camera	Effective physical pixel≥1.3 million		
		Through hardness tester serial communication, realize the system and hardness tester linkage. Real-time display hardness image, convert the signal through software,		
21	Image processing system software	measure indentation hardness value 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.		

49/39, Site IV Ind Area, Sahibabad, Ghaziabad - 201010,



BANBROS ENGINEERING PVT. LTD.

The Precision Measurement People

	Can operate edge detection for finish not good enough sample of 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.

STANDARD CONFIGURATION LIST: -

No.	Device name	Qty	Unit
1	Aicro Vickers hardness tester host		set
2	Standard diamond Vickers indenter		рс
3	Objective lens (10×, 40×)		рс
4	Flat fixture, chip fixture, filaments fixture		рс
5	Standard test piece HV0.2, HV1		pcs
6	10X Omron micrometer eyepiece		pcs
7	Level adjust foot		pcs
8	Gradienter	1	рс
9	Dust cover	1	рс
10	Power line	1	рс
11	Fuse	1	set
12	Warranty card	1	рс
13	Assistive tools	1	рс
14	Operation and maintenance manuals	1	рс
15	I3/500G/2G Lenovo PC	1	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 200×200mm, Journey	1	рс
	50×50mm)		
20	CCD Imagine collection machine (Physical pixel≥1.3 million)	1	рс
21	System connection cable	1	рс
22	Camera interface	1	рс