

## MAIN FUNCTION

This instrument is a new generation of automatic Micro Vickers hardness tester. It adopts the integrated design of hardness tester and panel computer; With Windows 7 operating system, it has all functions of computer. With CCD image acquisition system, it can show the indentation image directly on the touch screen and automatically get the Vickers hardness value. It takes over the old method of measuring the diagonal length by eyepiece, avoids the stimulation and visual fatigue of the light source of the eyepiece, and protects the eyesight of the operator. It is a major innovation of Micro Vickers hardness tester.

- All the testing parameters can be selected on the side panel computer. With touching screen, it operates quickly and conveniently and displays clearly and intuitively.
- With CCD image acquisition system, it shows the image clearly and gets the hardness value just by touching the screen.
- With two indenters and three objectives, automatic recognition and shifting between the objective and the indenter, automatically get the Vickers or Knoop hardness value.
- With the function of hardness scale conversion.
- The system has two languages: English and Chinese.
- With USB, VGA and LAN interfaces, the hardness measurement can be print out by USB interface.
- It can automatically save the measuring data, generate the hardness-depth curve and save as WORD or EXCEL document.
- With motorized X-Y test table, automatic focusing and automatic measuring, it realizes the fully automation of Micro Vickers hardness testing.



LAS IMAGENES PUEDEN VARIAR DEL ORIGINAL; INFORMACIÓN SUJETA A CAMBIO SIN PREVIO AVISO

## APPLICATION RANGE

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, plymetals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

## TECHNICAL SPECIFICATIONS

MODEL		XHVT-1000Z/3.0
Test force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N
Test Range		1HV~2967HV
Test Mode		HV/HK
Loading Method		Automatic (Loading/Dwell/Unloading)
Shifting between Objective and Indenter		Automatic Shifting (Two Indenters, Three Objectives)
Computer		CPU: Intel I3, Memory: 2G, SSD: 32G
CCD Pixel		1.30 Million
Conversion Scale		HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW
Hardness Reading		Indentation Displaying and Automatic Measuring on Touch Screen
Data Output		WORD or EXCEL Report with Curve Chart
Objective		10× (Observe), 20× (Measure), 40× (Measure)
Total Magnification		100× , 200× , 400×
Resolution		0.03µm, 0.015µm
Dwell Time		0~60s

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# INTELLIGENT FULLY AUTOMATIC MICRO VICKERS HARDNESS TESTER **XHVT-1000Z/V3.0**

Light Source	Halogen Lamp
Motorized X-Y Test Table	Size: 110×110mm; Travel: 50×50mm; Resolution: 0.002mm
Max. Height of Specimen	185mm
Throat	130mm
Power Supply	AC220V, 50Hz
Executed Standard	ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2
Dimension	560×335×675mm, Packing Dimension: 650×380×960mm
Wheight	Net Weight: 52kg, Gross Weight: 67kg

## PACKING LIST

NAME	QTY	NAME	QTY
Instrument Main Body	1 Set	Dimond Micro Vickers Indenter	1 Pc
Diamond Knoop Indenter	1 Pc	10×、20×、40× Objective	each 1 Pc
Weights	7 Pcs	Motorized Cross Test Table	1 Pc
Flat Clamping Test Table	1 Pc	Filament Clamping Test Table	1 Pc
Thin Specimen Test Table	1 Pc	Level	1 Pc
Horizontal Regulating Screw	4 Pcs	Screw Driver	1 Pc
Inner Hexagon Spanner	1 Pc	Color Filter	1 Pc
Plastic Absorbing Plate	1 Pc	Fuse 1A	2 Pcs
Power Cable	1 Pc	Halogen Lamp 12V、15~20W	1 Pc
Hardness Block 400~500 HV0.2	1 Pc	Hardness Block 700~800 HV1	1 Pc
Hardness Block 700~800 HK1	1 Pc	Anti-dust Cover	1 Pc
Usage Instruction Manual	1 Copy		

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