

## MAIN FUNCTION

This instrument is a new generation of Vickers hardness tester. It adopts the integrated design of hardness tester and panel computer, all the testing parameters can be selected on the panel computer. With touch screen, it operates quickly and conveniently and displays clearly and intuitively. With CCD image acquisition system, it can show dynamic indentation image, lock the image and automatically get the Vickers hardness value with high precision and stability, and avoid the human errors. The hardness tester with complete functions reaches the advanced level.



- It adopts the integrated design of hardness tester and panel computer, with Windows 7 operating system, it has all functions of computer and can be connected to the output devices such as external screen and printer.
- With three objectives for measurement, automatic recognition and shifting between the objective and the indenter.
- The lifting screw adopts worm and gear structure with smooth transmission.
- Test force loading, dwell and unloading is automatically finished.
- With CCD image acquisition system, it shows the image clearly and gets the hardness value automatically;
- With the function of hardness scale conversion.
- It can automatically save the measuring data, generate the hardness-depth curve and save as WORD or EXCEL document.
- With digital X-Y test table, it makes measurement X-Y more precise; it realizes the fully automation of Vickers hardness testing with optional motorized X-Y test table.

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-5Z / 10Z / 30Z / 50Z
Test force	kgf/N
XHVT-5Z	0.2kgf, 0.3kgf, 0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf 1.96N, 2.94N, 4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N
XHVT-10Z	0.2kgf, 0.3kgf, 0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf 1.96N, 2.94N, 4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N, 98N
XHVT-30Z	0.3kgf, 0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf 2.94N, 4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N, 98N, 196N, 294N
XHVT-50Z	0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf, 50kgf 4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N, 98N, 196N, 294N, 490N
Test Range	1HV~2967HV
Loading Method	Automatic (Loading/Dwell/Unloading)
Shifting between Objective and Indenter	Automatic Shifting
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

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# INTELLIGENT DIGITAL VICKERS HARDNESS TESTER XHVT-5Z/10Z/30Z/50Z

Hardness Reading	Indentation Displaying and Automatic Measuring on Touch Screen
Data Output	WORD or EXCEL Report with Curve Chart
Objective	10× , 20× , 40×
Total Magnification	100× , 200× , 400×
Resolution	0.25μm, 0.125μm, 0.0625μm
Dwell Time	0~60s
Light Source	Halogen Lamp
Motorized X-Y Test Table	Size: 100×100mm; Travel: 25×25mm; Resolution: 0.01mm
Max. Height of Specimen	185mm
Throat	130mm
Power Supply	AC220V, 50Hz
Executed Standard	ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2
Dimension	560×335×675mm, Packing Dimension: 650×380×960mm
Wheight	Net Weight: 48kg, Gross Weight: 62kg

## PACKING LIST

NAME	QTY	NAME	QTY
Instrument Main Body	1 Set	Dimond Vickers Indenter	1 Pc
10×、20×、40× Objective	Each 1Pc	Cross Test Table	1 Pc
Power Cable	1 Pc	Horizontal Regulating Screw	4 Pcs
Level	1 Pc	Fuse 1A	2 Pc
Halogen Lamp 12V、15~20W	1 Pc	Screw Driver	1 Pc
Inner Hexagon Spanner 2.5mm	1 Pc	Hardness Block 700~800 HV1	1 Pc
Hardness Block 400~500 HV5	1 Pc	Anti-dust Cover	1 Pc
Usage Instruction Manual	1 Copy		

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