Service Call: +86-13711988687



## **Touch Screen Digital Vickers Hardness Tester PCHVT-50Z**



PCHVT-50Z is a new generation of Vickers hardness tester adopts the integrated design of hardness tester and panel computer, all the testing parameters can be selected on the panel computer.

Touch screen makes the operation quickly and conveniently. CCD image acquisition system 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.

PCHVT-50Z adopts the integrated design of hardness tester and panel computer, with Windows operating system, it has all functions of computer and can be connected to the output devices such as external screen and printer;

PCHVT-50Z equips with motorized turret between the objective and the indenter;

The lifting screw of PCHVT-50Z adopts worm and gear structure with smooth transmission;

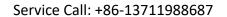
PCHVT-50Z comes with the function of hardness scale conversion;

Automatically save the measuring data, generate the hardness-depth curve and save as WORD or EXCEL report;

Optional digital micrometer X-Y test table makes measurement more precise and realizes the fully automation of Vickers hardness testing.

## **Application range:**

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; 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 Specification:**

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Model		PCHVT-50Z
Test Force	gf(N)	1.0Kgf(9.8N),5.0Kgf(49.0N),10Kgf(98.0N),20Kgf(196N),30Kgf(294N),50Kgf(490N)
Test Range		1HV~2967HV
Test Mode		HV/HK
Loading Method		Automatic (Loading/Dwell/Unloading)
Turret		Automatic Turret
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		10x (Observe), 20x (Measure)
Total Magnification		100x, 200x
Resolution		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		160mm
Throat		130mm
Power Supply		AC220V/50Hz/1Ph, AC110V/60Hz/1Ph
Execute Standard		ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2
Dimension		620×233×635mm, Packing Dimension: 650×380×860mm
Weight		Net Weight: 48kg, Gross Weight: 62kg

## Packing List:

Name	Qty	Name	Qty
Instrument Main Body	1 set	Diamond Vickers Indenter	1 pc
10x, 20x Objective	each 1 pc	Weights	6 pcs
Weight Axis	1 pc	Cross Test Table	1 pc
Flat Clamping Test Table	1 pc	Thin Specimen Test Table	1 pc
Filament Clamping Test Table	1 pc	Horizontal Regulating Screw	4 pcs
Level	1 pc	Power Cable	1 pc
Fuse 1A	2 pcs	Halogen Lamp 12V/15~20W	1 pc
Screw Driver	2 pc	Hardness Block 400~500 HV0.2	1 pc
Hardness Block 700~800 HV1	1 pc	Anti-dust Cover	1 pc
Usage Instruction Manual	1 сору		