

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:

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 copy		