SHVT-Z Series Intelligent Vickers Hardness Tester

Features:

The SHVT-Z Series 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 CCD image capture 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 Win7 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 automatic shifting between objective and indenter;
- 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;
- Optional Motorized X-Y Stage

Standard Compliance: ISO 6507; ASTM E92; JIS Z2244; GB/T 4340.2

Applications:

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.

Specifications：

Model	SHVT-500Z/1000Z/3000Z/5000Z
Test Force (kgf,N)	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
Test Force (kgf,N)	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
Test Force (kgf,N)	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
Test Force (kgf,N)	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)
Turret	Automatic
Computer Panel	CPU: Intel I3; Memory Capacity: 2G; Solid State Disk: 32G
Camera	Integrated CCD with 1.3M Pixels
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW
Hardness Reading	Indentation can be shown on the touch screen and be read automatically.
Data Output	Word/Excel Report With hardness-Depth Graph
Objectives	10X, 20X, 40X
Total Magnification	100X, 200X, 400X
Resolution	0.25μm, 0.125μm, 0.0625μm
Dwell Time	0-60 seconds
Illumination	Halogen Lamp
X-Y Stage	Size: 100×100mm; Travel: 25×25mm; Resolution: 0.01mm
Max. Height Capacity	185mm
Throat	130mm
Power Supply	AC220V/50Hz; AC110V/60Hz
Overall Dimension (L*W*H, mm)	Machine: 560 x 335 x 675; Packing Dimensions: 650 x 380 x 960
Weight	Net Weight: 48kg; Gross Weight: 62kg

Standard Accessories:

No.	Name	Qty.	No.	Name	Qty.
1.	Machine	1 Set	9.	Internal Hexagonal Wrench 2.5mm	1 PC
2.	Vickers Indenter (Diamond)	1 PC	10.	Screw Driver	1 PC
3.	X-Y Stage	1 PC	11.	Halogen Lamp：12V, 15~20W	1 PC
4.	Hardness Block 400~500 HV5	1 PC	12.	Fuse 1A	2 PCS
5.	Hardness Block 700~800 HV1	1 PC	13.	Anti-dust Cover	1 PC
6.	Objectives: 10X; 20X; 40X	3 PCS	14.	Power Cable	1 PC
7.	Level Adjustment Screws	4 PCS	15.	User Manual	1 PC
8.	Spirit Level / Level Gauge	1 PC	16.	Product Qualification Certificate	1 PC