

Digital display automatic turret type Vickers Hardness Tester (HVS-10Z)**Brief Introduction:**

The digital turret-type Vickers hardness tester can meet the basic Vickers hardness test requirements. The upgraded digital micrometer eyepiece can directly read the measurement length, so that the measurement value can be obtained more quickly and accurately. The tower can automatically switch the eyepiece and indenter to avoid artificial errors and damage the instrument, and also greatly improve the efficiency.



HVS-10Z



HVS-10ZL

Main functions and features:

1. The optical system designed by senior optical engineers not only has clear images, but also can be used as a simple microscope with adjustable brightness and comfortable vision.
2. Industrial display LCD large-screen display can display test methods, test force, measurement of indentation length, hardness value, test force retention time, number of measurements and type in year, month, date, test results and data processing;
3. Cast aluminum shell molding, the structure is stable and not deformed, high-grade automotive paint, anti-scratch ability, use for many years is still bright as new;
4. Our company has its own R&D, production and processing capabilities. Our machines provide parts replacement and maintenance upgrade services for life.
5. HVS-10Z model can directly confirm the hardness value by measuring the actual length;
6. HVS-10Z models can be realized: observation - test - measurement of the position switch by the automatic turret to complete;
7. Optional LCD large screen; LCD large-screen display to facilitate observation, test conditions, the test process is straightforward;
8. optional internal printer; test results and test data directly print;

Main application scope:

1. Iron and steel, non-ferrous metals, metal foils, hard alloys, metal sheets, microstructures, carbonization;
2. Carburizing, nitriding and decarburization layers, surface hardened layer, plating layer, coating, heat treatment;
- 3, glass, wafers, ceramic materials;

Technical Parameters:

Vickers hardness scale	HV0.3,HV0.5,HV1.0,HV3.0,HV5.0,HV10.0
display	5-digit hardness value, 4-digit diagonal length (D1, D2), Hold time, number of tests, average, standard deviation, return
Test force (Kgf)	0.3、0.5、1.0、3.0、5.0、10.0
Loading control	Automatic (load/hold/uninstall)
Test force retention time(s)	1~99
Optical channel	Dual light channels (eyepieces and CCD camera channels)
Optical system	Objectives: 10×, 20×; Eyepiece Magnification: 10× Total magnification (μm): 100×, 200× Measuring range (μm): 400 Resolution (μm): 0.125
Hardness measurement range	(5-3000)HV
XY test stand (optional) (mm)	Size (mm): 100×100; Travel range (mm): 25×25; Minimum reading: 0.01
Maximum height of specimen (mm)	165
Maximum width of specimen (mm)	130 (distance from the center line of the indenter to the wall)
Data output	Reserve built-in mini printer interface, (RS232 serial interface) optional installation
voltage	AC220V/50HZ
Overall size (mm)	585×200×630
Weight (kg)	42

Standard configuration:

Host	weights
Instruction Manual	Product Certificate
Large and medium "V" test benches	Spare fuse 2A
Horizontal adjustment screw	Vickers hardness block
Power cable	10X digital microscope eyepiece

Remarks: Optional hardness meter measurement software, eliminate human error, computer operation, improve efficiency, accuracy is more accurate.