

Touch screen digital display automatic turret type

Vickers Hardness Tester (HVST-30Z)

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, also greatly improve the efficiency.

With 7-inch LCD touch screen, you can provide more measurement data, control is more comprehensive and accurate.



HVT-30 (HVT-30Z)



HVST-30 (HVST-30Z)

Model Selection:

	HVT-30	HVT-30Z	HVST-30	HVST-30Z
Turret Type	Manual Turret	Automatic Turret	Manual Turret	Automatic Turret
Eyepiece	Analog Eyepiece	Digital Eyepiece	Analog Eyepiece	Digital Eyepiece
Dialogue Length Input Mode	Manually Input	Automatic Input	Manually Input	Automatic Input
Built-in Printer	Not Available	Optional	Not Available	Optional

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. 7-inch touch screen can display test method, test force, upper and lower limit of hardness value, measure indentation length, hardness value, test force retention time, number of measurements and type in year, month and date, test result and data processing. Wait;
- 3, the system comes with calibration function, each file can manually adjust the input error calibration instrument;
- 4, optical system brightness adjustable range: 0-100;
- 5, can store up to 100 sets of test data, in the main interface to display the average and the number of test data;

- 6, the test force unit can manually choose to convert, the conversion unit is: (Kgf, N)
- 7. The main interface can display 4 conversion scales at the same time, and can be switched: American Standard and International Standards. A total of 18 measurement scales can be converted: HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HV, HK, HBW;
- 8, can set the upper and lower limit measurement range, displayed in the main measurement interface;
- 9, test data can be directly exported via USB;
- 10. The measuring scale can be converted into HK Knoop hardness;
- 11, the operating system can be converted in English;
- 12, HVST-30Z models can be realistic: the measured length directly confirmed the hardness value;
- 13, HVST-30Z models can be realized: observation - test - measurement of the position switch by the automatic turret
- 14, cast aluminum shell molding structure stability is not deformed, pure white car paint high grade, anti-scratch ability, use for many years is still bright as new;
- 15. Our company has its own R&D, production and processing capabilities. Our machines provide parts replacement and maintenance upgrade service for life.

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;

Standard configuration

Main Unit	1	Large and medium "V" test anvil	1
weighs	3	Horizontal adjustment screw	4
Power cable	1	Vickers hardness block	2
10X microscope eyepiece	1	Spare fuse 2A	2

Remarks: Optional hardness meter measurement software, eliminate human error, computer operation, improve efficiency, accuracy is more accurate. Optional internal printer, one-click printing of measurement data.

Technical Parameters:

Vickers hardness scale	HV1,HV3,HV5,HV10,HV20,HV30
display	5-digit hardness value, 4-digit diagonal length (D1, D2), Hold time, number of tests, average, standard deviation, return
Test force(Kgf)	1.0Kgf(9.8N)、3.0Kgf(29.4N)、5.0Kgf(49.0N)、10Kgf(98.0N)、20Kgf(196N)、30Kgf(294N)
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×(Optional 20X 40X) 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)	Size (mm): 100×100 Travel range (mm): 25×25 Minimum reading (mm): 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/1Ph
Overall size (mm)	585×200×630
Weight (kg)	42