Auto Turret Vickers Hardness Tester HV-10Zpc

Main functions and features:

1. On the industrial display screen, the hardness value can be visually displayed, the hardness can be converted, the test method, the test force, the time of the charge and the number of measurements, and the test process can be intuitively understood.

2, 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;

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:

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Vickers hardness scale	HV0.3, HV0.5, HV1.0, HV2.0, HV3.0, HV5.0, HV10
display	5-digit hardness value, 4-digit diagonal length (D1, D2), Hold time, number of tests, average, standard deviation, return
Test force	0.3, 0.5, 1.0, 2.0, 3.0, 5.0, 10kgf
Loading control	Automatic (load/hold/uninstall)
Test force retention time	1～99 seconds
Optical system	Objectives: 10×, 20× (Customizable 40X) Eyepiece Magnification: 10× Total magnification (μm): 100×, 200× Measuring range: 800μm 400μm Resolution :1μm 0.5μm
Hardness measurement range	(5-3000)HV
Optical channel	Dual light channels (eyepieces and CCD camera channels)
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)
Executive standard	GB/T4340.2 Chinese Standard, JJG151 Inspection Rule
voltage	AC220V/50HZ
Overall size (mm)	585×200×630
Weight (kg)	42

Vickers/Knoop Measurement Software iVick

iqualitrol new generation Vickers (Micro Vickers)/Knoop measurement software iVick with friendly operation interface, apply USB camera to fast capture video and images, supports case depth inspection by analyzing the indentation image.

In traditional way, operators judge the size of the indentation through the microscopes, due to vision errors, different operators obtain different measurement results for same indentation. While by software, the indentation is enlarged through high resolution lens, and the size of indentation can be automatically obtained by image processing algorithm.
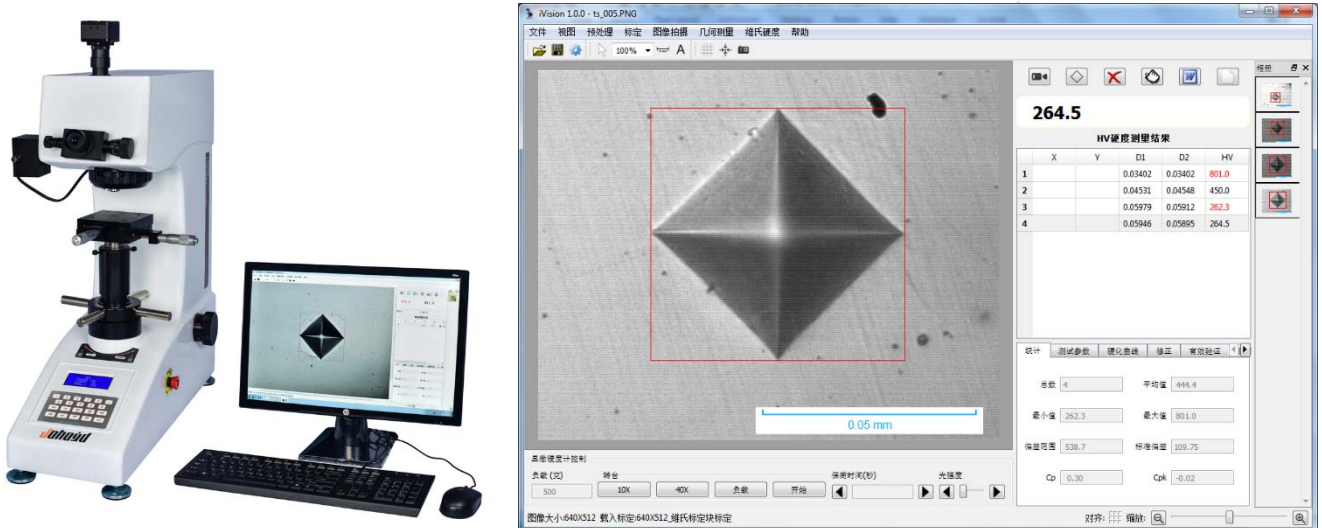
1, Easy Calibration, calibration can be done according to standard hardness blocks. Also can select calibration data according to test force, this function need to keep same test force with hardness tester.
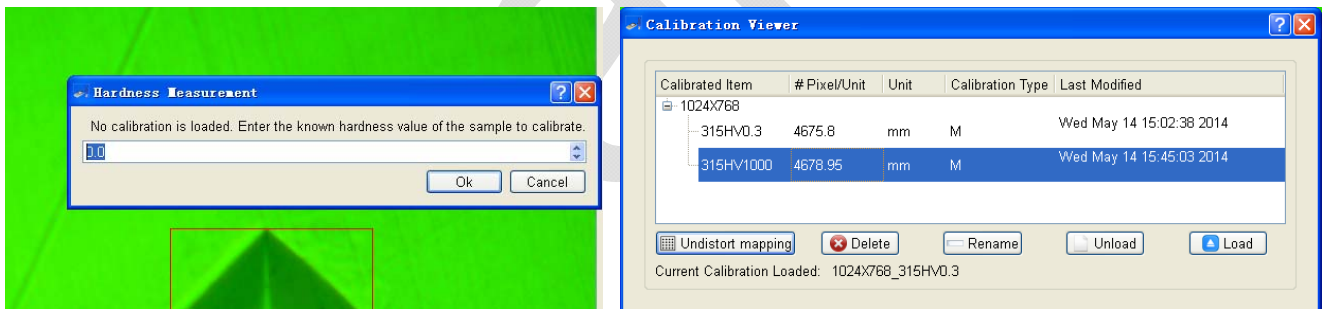
5, Hardness Results Display: Shows indentation dialog length, conversion value, requested minimal sample thickness, minimal any two indentations distance and material edge to the center of indentation.

Hardness Results

	D1	D2	HV	RP	Converted HRC	Sample Thickn	Min Indent Dist	n Indent-Edge D
1	0.04213	0.04213	● 313.4	☑	31.4	0.06	0.13	0.11
2	0.04213	0.04235	● 311.8	☑	31.2	0.06	0.13	0.11
3	0.04213	0.04256	● 310.2	☑	31.0	0.06	0.13	0.11
4	0.04213	0.04213	● 313.4	☑	31.4	0.06	0.13	0.11
5	0.04235	0.04213	● 311.8	☑	31.2	0.06	0.13	0.11
6	0.04213	0.04213	● 313.4	☑	31.4	0.06	0.13	0.11
7	0.04213	0.04213	● 313.4	☑	31.4	0.06	0.13	0.11
8	0.04213	0.04256	● 310.2	☑	31.0	0.06	0.13	0.11
9	0.04192	0.04213	● 315.0	☑	31.6	0.06	0.13	0.11