

Fully Automatic Micro Vickers Hardness Tester iVick-459ST

New generation automatic Micro Vickers hardness tester iVick-459ST adopts the integrated design with panel computer. Panel computer equips with Windows 7 operating system, all the testing parameters can be selected and preset by touch screen computer, makes operation quickly and conveniently and displays clearly and intuitively.

iVick-459ST can show the indentation image directly on the touch screen and automatically get the Vickers hardness value by CCD image acquisition system.

iVick-459ST takes over the old method of measuring the diagonal length by eyepiece, avoids the stimulation and visual fatigue of the light source of the eyepiece, and protects the eyesight of the operator.

With two indenters and three objectives, automatic recognition and turret between the objective and the indenter, support hardness scales conversion.

With USB, VGA and LAN interfaces, the hardness measurement can be printed out by USB interface, and can automatically save the measuring data, generate the hardness-depth curve and save as WORD or EXCEL document.

With motorized X-Y test table, automatic focusing and automatic measuring, it realizes the fully automation of Micro 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	iVick-459ST	
Test Force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N
Test Range	1HV~2967HV	
Test Mode	HV/HK	
Loading Method	Automatic (Loading/Dwell/Unloading)	
Turret	Automatic Turret (Two Indenters, Three Objectives)	
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), 40X (Measure)	
Total Magnification	100X, 200X, 400X	
Resolution	0.03μm, 0.015μm	
Dwell Time	0~60s	
Light Source	Halogen Lamp	
Motorized X-Y Test Table	Size: 110×110mm; Travel: 50×50mm; Resolution: 0.002mm	
Max. Height of Specimen	185mm	
Throat	130mm	
Power Supply	AC220V/50Hz/1Ph	
Execute Standard	ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2	
Dimension	560×335×675mm, Packing Dimension: 650×380×960mm	
Weight	Net Weight: 52kg, Gross Weight: 67kg	

Packing List:

Instrument Main Body	1 set	Diamond Micro Vickers Indenter	1 pc
Diamond Knoop Indenter	1 pc	10x, 20x, 40x Objective	each 1 pc
Weights	7 pcs	Motorized Cross Test Table	1 pc
Flat Clamping Test Table	1 pc	Filament Clamping Test Table	1 pc
Thin Specimen Test Table	1 pc	Level	1 pc
Horizontal Regulating Screw	4 pcs	Screw Driver	1 pc
Inner Hexagon Spanner	1 pc	Color Filter	1 pc
Plastic Absorbing Plate	1 pc	Fuse 1A	2 pcs
Power Cable	1 pc	Halogen Lamp 12V/15~20W	1 pc
Hardness Block 400~500 HV0.2	1 pc	Hardness Block 700~800 HV1	1 pc
Hardness Block 700~800 HK1	1 pc	Anti-dust Cover	1 pc
Usage Instruction Manual	1 copy		