

Fully Automatic Micro Vickers Hardness Tester iVick-458ST3



New generation of automatic Micro Vickers hardness tester adopts the integrated design of hardness tester and panel computer with Windows 7 operating system.

CCD image acquisition system can show the indentation image directly on the touch screen and automatically get the Vickers hardness value.

It 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.

Main Features:

All the testing parameters can be set on the side panel computer.

Touch screen makes operation quickly and conveniently.

CCD image acquisition system shows the image clearly and gets the hardness value just by touching the screen.

With two indenters and three objectives, automatic recognition and switch between the objective and the indenter, automatically get the Vickers or Knoop hardness value.

With the function of hardness scale conversion.

With USB, VGA and LAN interfaces, the hardness measurement can be print out by USB interface.

It 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-458ST3
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, AC110V/60Hz/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:

Name	Qty	Name	Qty
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		