

Twin Indenter Digital Micro Vickers Hardness Tester iVick-457HK

iVick-457HK Digital Micro Vickers hardness tester is a high-tech and new product combining the optics, mechanic and electric features.

With a novel and pleasing appearance, the internal structure is mainly made by stainless steel parts, has better performance.

It adopts a new type of automatic turret mechanism, equipped with both Micro Vickers and Knoop indenters. These two indenters adopt the independent alignment device which ensures that Vickers and Knoop indentation are at the same center position.

It can directly show the test mode, test force, indentation length, dwell time, test numbers, conversion scale, date and time on the large screen.

As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen.

With the up and down limit alarm function, test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer.

Available to use optional Knoop indenter to measure Knoop hardness.

Support to equip with LCD video measuring device and CCD image automatic measuring system.

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-457HK	
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)	
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW	
Data Output	Built-in Printer, RS232 Interface	
Hardness Reading	LCD Display, Data can be saved	
Objective	10x (Observe), 20x (Measure), 40x (Measure)	
Eyepiece	10x	
Total Magnification	100x, 200x, 400x	
Resolution	0.03 μ m, 0.015 μ m	
Dwell Time	0~95s	
Light Source	Halogen Lamp	
X-Y Test Table	Size: 100×100mm; Travel: 25×25mm; Resolution: 0.01mm	
Max. Height of Specimen	90mm	
Throat	120mm	
Power Supply	AC220V/50Hz/1Ph	
Execute Standard	ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2	
Dimension	495×305×550mm, Packing Dimension: 600×360×800mm	
Weight	Net Weight: 35kg, Gross Weight: 44kg	

Packing List:

Name	Qty	Name	Qty
Instrument Main Body	1 set	10x Digital Measuring Eyepiece	1 pc
Diamond Micro Vickers Indenter	1 pc	Diamond Knoop Indenter	1 pc
10x, 20x, 40x Objective	each 1 pc	Weights	7 pcs
Power Cable	1 pc	Cross Test Table	1 pc
Thin Specimen Test Table	1 pc	Flat Clamping Test Table	1 pc
Filament Clamping Test Table	1 pc	Level	1 pc
Horizontal Regulating Screw	4 pcs	Halogen Lamp 12V/15~20W	1 pc
Fuse 1A	2 pcs	Screw Driver	1 pc
Inner Hexagon Spanner	1 pc	Color Filter	1 pc
Plastic Absorbing Plate	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	1copy