

Advanced Digital Micro Vickers Hardness Tester with HV and HK Indenters



- iVick-D1000Z integrated the technology of optics, mechanics and computer, and it is focus on the vickers testing under the small force, and mainly used to measure the hardness of ferrous metals and non ferrous metals;
- Equips with LCD screen, displays the measuring methods, testing force, indentation length, hardness value, dwell time of the testing force as well as the number of measurement, the operation is more directly and clearly;
- iVick-D1000Z can be set working date, record the measuring results, compute the data, output the information with the printer;
- Support hardness conversion among 4 hardness scales, and linking to PC in RS 232 interface and cable;

• iVick-D1000ZK adopts the design of double indenters, equips with HV and HK indenter simultaneously, It is more suitable to measure the hardness of IC thin sections, coatings , ply metals; Glass, ceramics, agate , precious stones and other brittle and hard material.

• The Knoop hardness test is a microhardness test – a test for mechanical hardness used particularly for very brittle materials or thin sheets, where only a small indentation may be made for testing purposes. A pyramidal diamond point is pressed into the polished surface of the test material with a known (often 100g) load, for a specified dwell time, and the resulting indentation is measured using a microscope. The geometry of this indenter is an extended pyramid with the length to width ratio being 7:1 and respective face angles are 172 degrees for the long edge and 130 degrees for the short edge. The depth of the indentation can be approximated as 1/30 of the long dimension.

Standard Delivery:

Vickers Indenter	Objectives 10x	Accessories Box
Knoop Indenter (iVick-D1000ZK)	Objectives 40x	Anti-dust Cover
Vickers Hardness Block HV 0.5	10x Digital Eyepiece	Level Screw
Vickers Hardness Block HV 1	Power Cable	Instrument Manual

Optional Accessories:

Vickers Measuring Software	Unequal Specimen Clamp	Knoop indenter
25mm Digital Micrometer Head	Filament Clamp	USB Camera
Thin-piece Clamp	Flat Precision Clamp	15x Digital Eyepiece

Specifications:

Product Name		Single-Indenter Digital Micro Vickers Hardness Tester	Double-Indenter Digital Micro Vickers Hardness Tester
Model		iVick-D1000Z	iVick-D1000ZK
Loading Force	N	0.098, 0.246, 0.49, 0.98, 1.96, 2.94, 4.90, 9.80	
	gf	10, 25, 50, 100, 200, 300, 500, 1000	
Indenter		HV Indenter	HV and HK Indenter
Turret		Auto-Turret	
Indentation Measurement		Digital Sensor Measurement	
Loading Control		Automatic (Loading, Dwell, Unloading)	
Magnification of Microscope		Observation:10x; Measurement:40x	
Digital Eyepiece		Magnification:10x	
Auto Hardness Conversion		HV, HRC, HB	
Hardness Indication		LCD display	
Dwell Time		Adjustable 1~99s	
Testing Range		1HV~2967HV	
X-Y Anvil		Size:100x100mm; Travel:25 x25mm; Resolution:2um	
Illumination		Adjustable LED 6V, Cold light-source	
Display		D1, D2, HV/HRC/HB/HK, Time	
Vertical Space		70mm	
Instrument Throat		95mm	
Power Supply		AC220V/50Hz;110V/60Hz	
Dimension(LxWxH)		490 x250 x395mm	
Packing Dimension		530 x450 x750mm	
Gross/Net Weight		50Kg/40Kg	
Execution Standard		ISO 6507, ASTM E92, JIS Z2244, GB/T4340	