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Hardness Testing Machines

Manual Micro Vickers Hardness Tester HV-1000 Series

HV-1000

Model	HV-1000
Code#	823-101
Standard	ISO 6507, ASTM E92, JIS Z2244, GB/T4340
Certificate	CE



Product Characteristics

- Not only has the functions of data storage, query and average calculation, but also USB flash memory function (optional).
- The dot positioning uses a three-point position to be more precise, and the repeated dot position is not skewing.
- The operation interface adopts a menu-style humanized structure, and the hardness scale HV or HK can be selected on the operation panel, need to manually input the hardness value. Various hardness values can be converted easily, and with Chinese and English language switching display function also.
- High efficiency and easy operation - the objective lens and the indenter are automatically converted and positioned.
- 10X and 20X the objective lens has the functions of measurement and observation in our high standard configuration model (Only 40X objective lens has the measurement function in same type machines)
- Micro hardness tester can be used to determine the hardness of small or thin specimens and small areas of larger specimens. Micro hardness testing is commonly used to determine the characteristics of thin sheet, foil, fine wire, epoxies, paint, etc. and is normally applied in R&D.
- Micro hardness tester is especially useful in determining hardness variations, caused by hardening, quenching, plating, fabrication, welding or annealing, bonding, etc.



Hardness Testing Machines

Application Range

- Testing very thin materials like foils, thin pieces, coatings layers, etc;
- Measuring hardness of the surface of a part, small parts or small areas;
- Measuring individual micro-structures;
- Measuring the depth of case hardening by sectioning a part and making a series of indentations to describe a profile of the change in hardness.

Specification

Product Name		Manual-Turret Micro Vickers Hardness Tester	Auto-Turret Micro Vickers Hardness Tester
Model		HV-1000	HV-1000Z
Code#		823-101	823-101Z
Test 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	
Hardness Scale		HV, HK	
Hardness Conversion		HV, HR, HRC, HB	
Indentation Measurement		Mechanic Micrometer	
Loading Control		Automatic (Loading, Dwell, Unloading)	
Magnification of Microscope		Observation:10x/40x; Measurement:10x/40x	
Magnification on of Eyepiece		10x Analogue Eyepiece	
Dwell Time		Adjustable 5~60s	
Testing Range		1HV-3000HV	
Analogue X-Y Anvil		Size:100x100mm; Travel:25 x25mm; Resolution: 0.25um	
Optical Channel		Two-Channel/CCD	
Filter Lens		Green	
Illumination		Adjustable Halogen light-source	
Max. Height of Specimen		90mm	
Instrument Throat		120mm	
Operating Temperature		23±5°C	
Operating Humidity		<65%	
Power supply		AC220V/50Hz; AC110V/60Hz	
Dimension		530X290X490mm	
Gross/Net Weight		50kg/40Kg	
Execution Standard		ISO 6507, ASTM E92, JIS Z2244, GB/T4340	