

MIDLAND METROLOGY LTD

Advanced Digital Vickers Hardness Tester MHV-5/10/30/50



Description:

- Semi-automatic and intelligent Vickers Hardness Tester incorporating optical and electronic techniques
- It adopts a close-loop force sensor system to replace the traditional weight method. This innovative design makes the machine more stable and accurate
- Its runs a software programme, high-resolution optical measuring system and photoelectric sensor. The front panel key input allows the operator to choose light source brightness, hardness converse, dwell time and file number etc.
- The LCD screen makes the machine very easy to read and operate. It displays test method, test force, diagonal length and hardness value
- Standard delivery includes auto-turret, Halogen Light source and built in mini-printer
- Full digital hardness testing instrument, don't need operator to read the length of diagonal, just press the sensor key
- The machine can also be fitted with CCD and video display
- It is suitable for determining the Vickers hardness value of micro thin pieces, parts with a strengthening layer, heat treated, permeated and coated surfaces. This machine is ideal for materials such as agate, glass and ceramics
- An ideal hardness measuring instrument for scientific research institutes, universities, industrial production and metallographic institutes

Specifications:

Model		MHV-5/5Z	MHV-10/10Z	MHV-30/30Z	MHV-50/50Z
Testing Force	Kgf	0.3 0.5 1 2 2.5 3 5	0.3 0.5 1 2 2.5 3 5 10	0.5 1 2 2.5 3 5 10 20 30	1 2 2.5 3 5 10 20 30 50
	N	2.94 4.9 9.8 19.6 24.5 29.4 49.0	2.94 4.9 9.8 19.6 24.5 9.4 49.0 98	4.9 9.8 19.6 24.5 29.4 49.0 98 196 294	9.8 19.6 24.5 29.4 49.0 98 196 294 490
Testing Range		8HV0.3 - 2900HV5	8HV0 - 2900HV10	8HV0 - 2900HV30	8HV1 - 2900HV50
Lens & Indenter Switch		Manual Turret (MHV-5/10/30/50) Auto-Turret (MHV-5Z/10Z/30Z/50Z)			
Loading Control		Automatic (Loading, Dwell and Unloading)			
Data Output		RS-232 / Mini printer			
Auto Hardness Conversion		HRA HRB HRC HV HK HBW etc			
Microscope Magnification		MHV - 5 / 5Z	Observation: 20x	Magnification:40x	
		MHV - 10 / 10Z	Observation: 10x	Magnification:40x	
		MHV - 30/30Z	Observation: 10x	Magnification:20x	
Eyepiece		10X			
Dwell Time		0-60s (5 seconds as a unit)			
Hardness Indication		LCD Display			
Illumination		Adjustable LED			
Max Test Height		170 mm			
Test Throat		130 mm			
Power Supply		AC 220V / 50 Hz 110V / 60Hz			
Dimensions		560 mm x 280 mm x 630 mm			
Gross / Net Weight		50 / 35 Kg			
Packing Dimensions		630 mm x 460 mm x 710 mm			

Standard Packing List:

- Mainframe
- 10x Eyepiece
- 10x Objective Lens
- 20x Objective Lens
- 40x Objective Lens
- Accessories box
- Gradienter
- Screwdriver
- Allen Wrench
- Vickers Indenters / Blocks
- Fuses
- Power Cable
- Halogen Lamp
- Anti-dust cover
- Level Screw
- X-Y Test Anvil
- Large Test Anvil

Optional Accessories:

- Filament Clamp
- Flat Clamp
- Thin-piece Clamp
- Hardness Blocks
- Knoop Indenter
- Medium-Flat Anvil
- Polishing Machine
- Cutting Machine
- Mounting Press

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