

# MIDLAND METROLOGY LTD

## Practical Digital Vickers Hardness Tester HVS-5/10/30/50 Series

### 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.
- Force and dwell times can be selected from the front panel. It is automatic during loading, dwell and unloading.
- It has a digital microscope with adjustable LED lighting. This microscope removes the need for the operator to read results and view charts. The operator is only required to point the D1 and D2 values and press the return button on the microscope.
- The machine can also be fitted with CCD and Video Display.
- It is suitable for determining the Vickers Hardness value of micro and 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 and industrial production.



### Optional Accessories:

- CCD Measuring System.
- Filament Clamp.
- Flat Clamp.
- Thin Piece Clamp.
- LCD Monitor.
- Medium-Flat Anvil.
- Hardness Blocks.
- Vickers Measuring Software with Capture Card and Dongle.

### Packing List:

- Mainframe
- Vickers Indenter
- Vickers Blocks
- 10X Objective Lens
- 20X Objective Lens
- 10X Eyepiece
- Level Screw
- Fuses
- Screwdriver
- Allen Wrench
- Accessories Box
- Mini-printer (P/Z Type)
- Power Cable
- V-shape Test Anvil (HV-30/30P/30Z/50/50P/50Z)
- Large Test Anvil (HV-30/30P/30Z/50/50P/50Z)
- X-Y Test Anvil (HV-5/5P/5Z/10/10P/10Z)
- Instruction Manual
- Anti-dust Cover
- Halogen Lamp.

Product Name					
Model		HVS-5/5P/5Z	HVS-10/10P/10Z	HVS-30/30P/30Z	HVS-50/50P/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 1 0 20 30 50
	N	2.94 4.9 9.8 19.6 24.5 29.4 49.0	2.94 4.9 9.8 1 9.6 24.5 29.4 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		8HV0.3-29 00HV5	8HV0.3-2900 HV10	8HV0.5-2900 HV30	8HV1-2900 HV50
Lens & Indenter Switch		Manual Turret (HVS-5/5P/10/10P/30/30P/50/50P)			
		Auto Turret (HVS-5Z/10Z/30Z/50Z)			
Loading Control		Automatic (Loading, Dwell and Unloading)			
Data Output		RS-232 / Mini-printer (P/Z Type)			
Microscope Magnification		HVS-5/5P/5Z	Observation: 20X		Measurement: 40X
		HVS-10/10P/10Z	Observation: 10X		Measurement: 40X
		HVS-30/30Z/ 50/50Z	Observation: 10X		Measurement: 20X
Eyepiece		10X			
Dwell Time		0 – 60 Seconds (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 / 50Hz 110V / 60Hz			
Dimensions		530 mm x 280 mm x 630 mm			
Packing Dimensions		630 mm x 460 mm x 710 mm			
Gross / Net Weight		50 / 35 Kg			

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