

Micro Vickers Hardness Tester

These Vickers hardness testers have a faster testing speed than other ordinary Vickers hardness testers. The hardness value can be displayed directly and needs to enter the length of the diagonal. The objective lens and indenter can be shifted automatically after the finished focus. Loading, dwelling, and unloading the test force automatically. And the objective lens returns to the initial focus status, measuring directly. The optical system designed by our senior optical engineer not only meets the definition of hardness testing requirements but also can observe the microstructure of the material, the image is very clear. Casting aluminum moulding shell to ensure structure more stable; Adopted car painting technology, pure white color looking more decent; High scratch resistance capability, used for years still brightness like new.



Main functions and features:

- Operational panel is concise and clear with menu structure with English.
- The hardness values, diagonal length, dwell time, testing frequency, environmental temperature, the maximum minimum value of test, average value, and repeatability can be displayed directly.
- The independent research and development of lifting system and positioning system, ensured the accuracy and repeatedly of the testing process.
- According to different visual habits of the operators, the strength of the light source can be adjusted. To avoid the visual fatigue for long time operation.
- The testing data able to be printed directly by the built-in printer.
- Reserved image channel can be connected to a computer, using the image analysis software to analyzing the physical and chemical properties of the material.

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TECHNICAL SPECIFICATIONS	HMHT-1000MT	HMHT-1000AT
Turret and Indenter	Manual Turret	Auto Turret
Test Load	10g(0.098N), 25g (0.245N), 50g (0.49N), 100g (0.98N) 200g (1.96N), 300g (2.94N), 500g (4.9N), 1000g(9.8N), (2000g Optional)	
Scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3 HV0.5, HV1, (HV2 Optional)	
Conversion Scale	HRA, HRB, HRC, HRD, HRF, HBW, H15N, H30N H45N, H15T, H30T, H45T	
Min. Measuring Unit	0.01 μm	
Hardness Value Rang	1HV-4000HV	
Hardness Value of Reading	Digital LCD Screen	
Total Magnification of Microscope	100X (For Observation), 400X (For Measurement) (Can be extended to 200X or 600X)	
Loading Method	Automatically (Load, dwell and unload the testing force)	
Dwell Time	1-99s	
Specimen Allowing Maximum Height	85mm	
Depth of throat	115mm	
Instrument Size	490×185×515mm (L×W×H)	
Instrument Weight	45kg	
Light Source	LED Cold light source (can be continuous use for 24 hours servicing life can reach 100,000 hours)	
Power supply	220V + 5%, 50 HZ	
X-Y Testing Table	Dim.:100×100 mm, Max. Travel Range: 25×25mm, Moving Resolution Ratio:0.01mm, (X-Y Digital Testing Table with digital LCD Screen for Optional)	
Data Output	Built-in Printer (Hardness Value, The Max. And Min. Value Testing times and Average Value), Built-in RS-232 interface	

Standard Accessories	
10X Micrometer eyepiece : 1pc,	10X and 40X Objective lens : 1pc
Vickers indenter : 1pc,	X-Y testing table : 1pc,
Flat fixture : 1pc	Thin fixture : 1pc
Power cable : 1pc	Standard block of hardness : 2pc
Instruction Book : 1pc	

* Image of item subject to be change due to continues development.