

MICRO VICKERS HARDNESS TESTER



DESCRIPTION

High-quality imported components ensure the new type of Micro Hardness Testers work more stable. Protected by the state patent application of the lift & down system, after upgrading, the control system can provide more measuring data, and control more precise. This machine is integrated with optics, mechanics, and electricity. It with unbeatable price/performance ratio, widely used in the quality inspection and quality control field.

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- One-time casting aluminum body with sturdy structure, modular design and stable working performance
- Load from 10 to 1000g, can extend to 2kgf
- Precise manual analog 10X eyepiece
- With the hardness conversion function
- LED Cold light source
- Dual optical path, can work with hardness measurement software system (optional purchase)
- Standard machine come with Precision screw rod lifting system (Worm gear rod lifting system for optional purchase)

APPLICATION: -

- Steel, nonferrous metals, tinsel, cemented carbide, sheet metal, metallographic structure.
- Carburization, nitriding and decarburization layer, surface hardening layer, galvanized coating, coating.
- Glass, chip and ceramic material.

MAIN FEATURES:

- Main components adopted American 3M, Allegro, and Japanese Omron, NKK brand, ensure the instrument can stable working for a very long time.
- Adopted one time casting aluminum machine body and car painting technology, structure more stable and appearance more decent.
- The independent research and development of lift & down system and positioning system, ensured the accuracy and repeatedly of the testing process.
- The optical system designed by our senior optical engineer not only meet the definition of hardness testing requirements, but also can observe the micro structure of the material, image is very clear.
- 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.
- With Vickers hardness and Knoop hardness testing capabilities. By measuring the indentation diagonal length, the hardness will show on the screen directly, no need to check hardness table.
- Industrial digital screen can direct display hardness value, conversion hardness value, testing method, testing force, dwell time, easy for operator to save the data.
- Double optical path design. Both eyepiece and CCD camera path can work at same time. No need switch optical path. Camera can be install inside machine (camera for optional purchase).

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TECHNICAL SPECIFICATIONS

Model No.	MVH-1000M	MVH-1000A
Turret	Manual Turret	Automatic Turret
Testing force	10g (0.098N), 25g (0.245N), 50g (0.49N), 100g (0.98N), 200g (1.96N), 300g (2.94N), 500g (4.9N), 1kg (9.8N)	
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1	
Loading speed	≤0.05mm/sec	
Indenter	Standard Rectangular pyramid diamond indenter (136°±0.5°)	
Min. measuring unit	0.25µm	
Hardness value rang	5HV-3000HV	
Hardness Value of Reading	Digital LCD Screen	
Eyepiece	10X manual analog eyepiece	
Objective lens	10X (observe), 40X (Measurement)	
Total magnification	100X (For Observation) , 400X (For Measurement)	
Loading method	Automatically (Load, dwell and unload the testing force)	
Duration time	1-99s (each step is 1 second)	
Maximum height	90mm	
Throat depth	95mm	
Instrument size and Net weight	405*290*480mm (L×W×H)	40kg
Packing size and Gross weight	580x345x580mm(LxWxH)	55kg
Light Source	LED cold light source	
Power Supply	220V + 5%, 50/60 Hz (110V is available)	
X-Y Testing Table	Dim.:100×100 mm, Max. Travel Range: 25×25mm, Moving Resolution Ratio: 0.01mm	
Executed Standard	GB/T4340, ASTM E384 & E92, EN-ISO 6507, JIS B-7734	

STANDARD ACCESSORIES: -

Part Name	Q'ty	Part Name	Q'ty
Weights shaft	1 pc	sheet specimen fixture	1 pc
10X manual micrometer eyepiece	1 pc	Power line	1 pc
10X and 40X objective lens	1 pc	Dustproof cover	1 pc
Vickers diamond indenter	1 pc	Manual Book	1 pc
X-Y Testing Table	1 pc	Certificate of quality	1 pc
Gradienter	1 pc	Screwdriver	1 pc
Flat fixture	1 pc	Warranty Card	1 pc
Accessory box	1 pc	Spare fuse	2 pcs
Standard block of hardness	2 pcs	horizontal adjusting screw	4 pcs

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OPTIONAL ACCESSORIES: -

- ☞ Image analysis software
- ☞ Metallographic equipment
- ☞ Knoop Indenter; hardness block
- ☞ 15X micrometer eyepiece
- ☞ Thin Specimen Test Table
- ☞ Flat fixture
- ☞ Filament Clamping Test Table



Main Interface



SETUP Interface

FEATURES: -



Precision Manual measuring eyepiece (10X)
Resolution 0.5µm

Double optical path design. Both eyepiece and CCD camera path can work at same time. No need switch optical path.



X-Y Testing table of Micro Vickers hardness tester
Dim.:100×100 mm, Max. Travel Range: 25×25mm,
Moving Resolution Ratio: 0.01mm



LED Cold light source (can be continuous use for 24 hours, no heat generates ensures stable working, servicing life can reach 100,000 hours); Lightness can be adjusted, avoiding visual fatigue of the operator.

