

7MHVS-1000A

Digital Micro Hardness Tester



Important notices and safety information:

7MHVS-1000 touch screen digital micro hardness tester is mainly used for micro Vickers hardness measurement of various metals and some non-metallic materials.), non-ferrous metals, heat post-treated parts, various tiny and thin parts, glass, ceramics, agate, gemstones, etc. for hardness determination, and also suitable for carbonization, effective depth

of quenching and hardening layer, coating, surface coating and welding Heat-affected parts of parts. It can also be used to observe the internal metallographic structure of various metal parts and to collect, display and output images. It is especially suitable for measuring the hardness gradient distribution curve of the workpiece and measuring the surface hardness of the gear after heat treatment, and the depth of the effective hardened layer.



This product adopts a unique and precise design in mechanics, optics and light source, which makes the indentation imaging clearer and the measurement more accurate. It adopts a new touch screen display, and the operation interface adopts a menu structure. The hardness scale HV or HK can be selected on the operation panel, and the tested hardness value is automatically calculated and displayed automatically. Various hardness values can be converted to each other.



This machine is equipped with a 10 times digital display measuring microscope and a 40 times objective lens, which can participate in the measurement, so that the measurement range is larger and the application range is wider. Force, indentation length, hardness value, test force holding time, measurement times, date, time, hardness conversion value and other functions. It has functions such as converting scales, storing, printing, etc., and has a threaded interface for connecting digital cameras and CCD cameras, which is convenient for choosing a computer and hardness analysis and measurement software.

Main Technical Parameter:

Name	7MHVS-1000A
Test Force	10gf、25gf、50gf、100gf、200gf、300gf、500gf、1kgf 0.098N、0.245N、0.49N、0.98N、1.96N、2.94N、4.9N、9.8N
Convert Scales	HRA、HRB、HRC、HRD、HRF、HV、HK、HBW、HR15N、HR30N、HR45N、HR15T、HR30T、HR45T
Min. Unit of measurement	0.0025 μ m
Test Mode	HV/HK
Hardness Test Range	5~3000HV
Test Force Application Method	Automatic (loading, dwelling, unloading)
Turret Method	Automatic
Objective Lens	10X、40X
Eyepiece	10X
Total Magnification	100X (observation) 400X (measurement)
Test Force Dwell Time	1~60s
X-Y Table Size	100*100mm
X-Y Test Table Maximum Movement	25*25mm
Data Output	Touch Screen Readout, Built-in Printer
Max. Height of Specimen	110mm
The Distance From the Center of the Indenter To the Inner Wall	110mm

Power Supply	AC220V±5%， 50~60Hz
Executive Standard	ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2
Dimensions	405*290*480mm
Weight	About 40kg

Brief introduction of each component function:

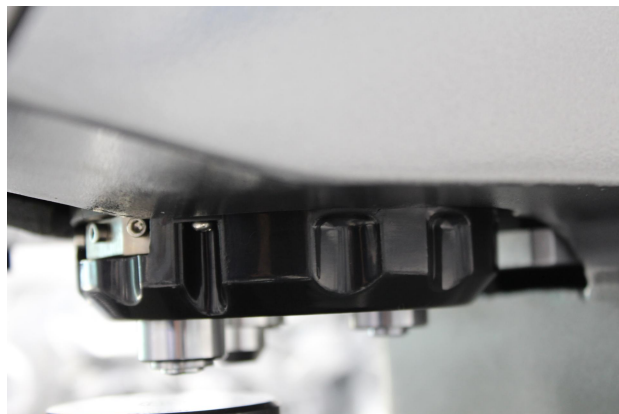
Hardness tester control panel: The operation interface adopts a user-friendly format and has the function of switching between Chinese and English languages, which is suitable for multi-national personnel to operate conveniently. The menu functions are clearly classified and meticulous, and the light brightness, menu selection and objective lens selection all have memory functions.

Light source components: using halogen lamps, the imaging effect is clearer.

Product advantages:

01. It has the functions of data storage query and average calculation, and the three-point card position is more accurate for dotting positioning, and the repeated dotting position does not shift.

The supporting shrapnel is made of imported special customized materials with high toughness, high fatigue resistance and not easy to deform



02. The operation interface adopts a 7-inch LCD touch screen, which can directly switch between Chinese and English, which is suitable for multi-national personnel to operate conveniently. The menu functions are clearly classified and meticulous, and the light brightness, menu selection and objective lens selection all have memory functions.

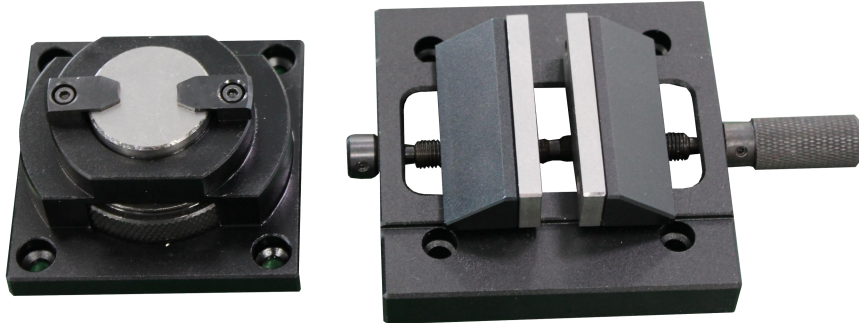
03. The lifting of the worktable adopts the worm gear operating system, and the transmission is more stable.



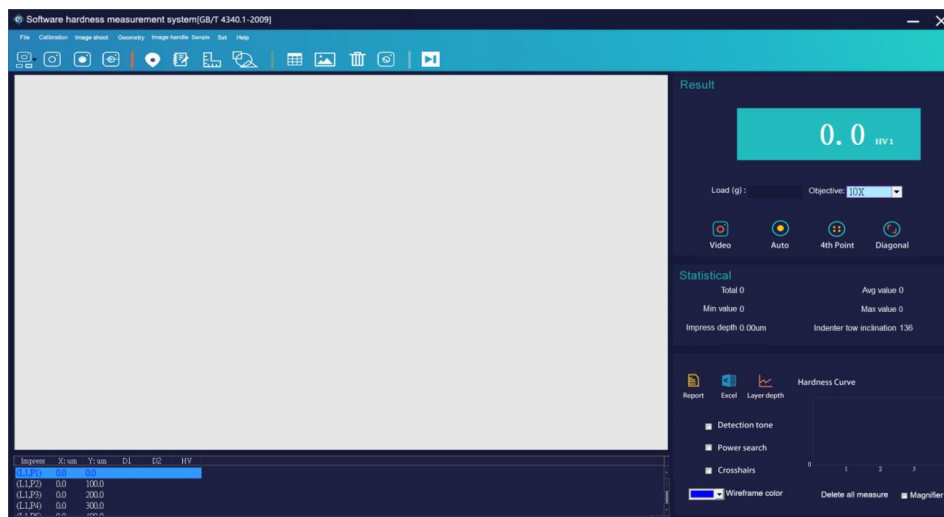
04. Using a quality micrometer, the image is clearer and the measurement is more accurate.



05. Equipped with a flat mouth support table and a filament support table, which can fix different shapes of workpieces.



06. Genuine hardness measurement software is optional.



Packing list:

Name	Specification	Unit	Quantity	Remark
Shaft for Standard Weight		Pcs	1	
Cross Test Bench		Set	1	
Flat Clamp Table		Set	1	
Screwdriver		Pcs	2	
Spirit Level		Pcs	1	
Micro Vickers Hardness Block	high block, low block	Pcs	2	1 each
Power Cable		Pcs	1	
Manual		Pcs	1	
Certificate of Qualification		Pcs	1	
Standard Weight		Set	6	
Sheet Clamp Table		Set	1	
Adjusting Screw		Pcs	4	
Micrometer Eyepiece		Set	1	
Spare Fuse	2A	Pcs	2	