

Mikrosize®

MVicky-10/50 Macro Vickers Hardness Tester



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Features and Applications

Product Features

Manual Type:

- High-tech and new product combining the optics, mechanic and electrics.
- Load cell control system, improves precision of test force and repeatability, stability of the indicating value.
- Display test force, dwell time, test numbers on screen, only need to input the diagonal of the indentation, then you can automatically get the hardness value on the screen.
- Can be equipped with CCD image automatic measuring system.

Digital Type:

- Based on manual type, digital macro vickers hardness tester with digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation,
- Directly shows the test force, indentation diagonal, dwell time, test numbers, conversion scale, date and time.
- Automatically get the hardness value on screen, just press the eyepiece button after measuring the indentation diagonal.
- Can be equipped with LCD video measuring device and CCD image automatic measuring system.

Touch Screen:

- Based on digital type, Touch Screen macro vickers hardness tester adopts the high resolution color touch screen, easy to operate, display backlight adjustable with energy-saving mode.
- Directly show the test force, indentation diagonal, dwell time, test numbers, conversion scale, date and time.
- Automatically get hardness value on screen, test results can be saved in real time with automatic calculation of maximum, minimum and average value, data can be arbitrary deleted and printed out.
- With RS232 interface for connecting to the computer.



Manual Type



Digital Type

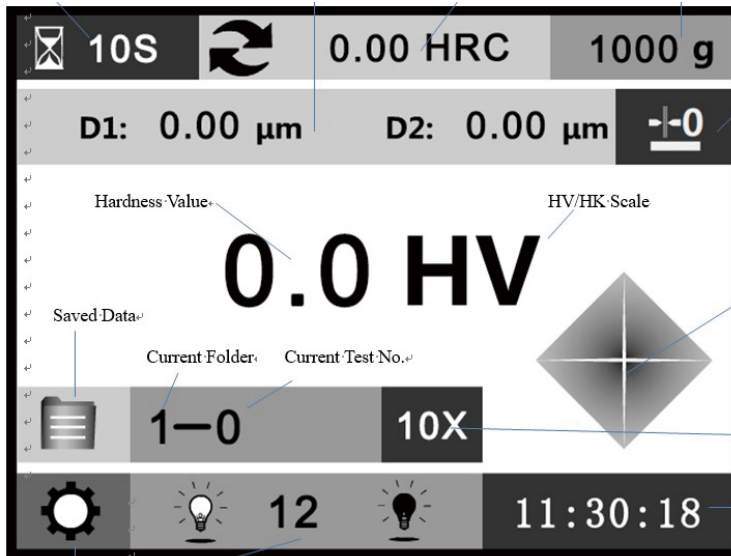


Touch Screen

Product Applications

- Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

Product Details



Touch Screen

- User-friendly high resolution colorful touch screen, easy to operate, display backlight adjustable with energy-saving mode, display test force, indentation diagonal, dwell time, test numbers, conversion scale, date and time. All parameters can be saved.

Ordering Information



MVicky-10/50 Manual
Macro Vickers Hard-
ness Tester



MVicky-10D/50D
Manual Macro Vickers
Hardness Tester



MVicky-10T/50T Touch
Screen Macro Vickers
Hardness Tester

Technical Specification

Product Name	Manual Macro Vickers Hardness Tester	Digital Macro Vickers Hardness Tester	Touch Screen Macro Vickers Hardness Tester
Model	MVicky-10/50	MVicky-10D/50D	MVicky-10T/50T
Test Force(10Z) kgf N	0.3kgf, 0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf		
	2.94N, 4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N, 98N		
Test Force(50Z) kgf N	0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf, 50kgf		
	4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N, 98N, 196N, 294N, 490N		
Test Mode	HV/HK		
Test Range	1HV~2967HV		
Hardness Resolution	0.1HV		
Loading Method	Automatic (Loading/Dwell/Unloading)		
Turret Rotating	Automatic		
Data Output	Built-in Printer, RS232 Interface		
Hardness Reading	Manually Input Indention Diagonal	Digital LCD	Color Touch Screen Data can be saved
Conversion Scale	HK, HRA, HRBW, HRC, HRD, HREW, HRFW, HRGW, HRKW, HR15N, HR30N, HR45N, HR15TW, HR30TW, HR45TW, HS, HBW		


Technical Specification

Eyepiece	10×Digital Measuring Eyepiece		
Objective	10X, 20X	10X, 40X(10Z), 10X, 20X(50Z)	10X, 40X(10Z_), 10X, 20X(50Z)
Total Magnification	100X, 200X	100X, 400X(10Z), 100X, 200X(50Z)	100X, 400X(10Z_), 100X, 200X(50Z)
Effective Field of View	10×: 800μm, 40×: 200μm		
Min. Measuring Unit	110×: 0.25μm, 40×: 0.06μm		
Dwell Time	0~60s		
Light Source	Halogen Lamp		
X-Y Test Table	Size: 100×100mm; Travel: 25×25mm; Resolution: 0.01mm		
Test Height	170mm		
Test Throat	130mm		
Power Supply	AC220V, 50Hz		
Executive Standard	ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2		
Dimension	Machine: 530×280×630mm, Package: 620×450×760mm		
Weight	Net Weight: 35kg, Gross Weight: 47kg		

Standard Delivery

Name	Qty	Photo
Instrument Main Body	1 set	
Diamond Vickers Indenter	1 pc	
X-Y test Stage	1 pc	
Horizontal Regulating Screw	4 pcs	/
Fuse1A	2 pcs	/
Inner Hexagon Spanner 2.5mm	1 pc	/
Hardness Block 700~800 HV1	1 pc	
Anti-dust Cover	1 pc	/

Standard Delivery

Name	Qty	Photo
10×Digital Measuring Eyepiece	1 pc	/
10×, 20x 40× Objective	each 1 pc	/
Power Cable	1 pc	/
Level	1 pc	/
Halogen Lamp12V、 15~20W	1 pc	/
Screw Driver	1 pc	/
Hardness Block 700~800 HV10	1 pc	
Usage Instruction Manual	1 copy	/

Optional Delivery

Optional Items

CCD Image Measuring System

Macro Vickers Measuring Software

5X Eyepiece

5X Objective Lens

Hardness Indentor

LCD Monitor

Medium-Flat Anvil

Hardness Blocks
