

# Mikrosize®

## MVicky-10/50 Digital Touch Screen Macro Vickers Hardness Tester



### Contact us

**Mikrosize Precision Instrument Co.,Ltd**

A-4035 RuiFeng Business Expo, Wuhu City, China , 241000.

Web: [www.mikrosize.com](http://www.mikrosize.com)

Email: [mikrosize@mikrosize.com](mailto:mikrosize@mikrosize.com)



Web: [www.mikrosize.com](http://www.mikrosize.com)

Email: [mikrosize@mikrosize.com](mailto:mikrosize@mikrosize.com)

## Product Feature

### Product Features

- MVicky-10/50 Digital Vickers hardness tester adopts aluminum alloy die-casting process, and the shell is firm and stable, novel and beautiful.
- It adopts load cell control system, and through the motor direct drive vertical loading test force, the precision is higher and more stable.
- Faster turret speed ensures high test efficiency.
- With special material lifting shaft and ball screw structure, it makes the lifting more stable.
- It adopts 8 inch high resolution color touch screen which is visual and clear, easy to operate.
- With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly show the test force, indentation length, dwell time, conversion scale, and time.
- As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen.
- Test results can be saved in real time with automatic calculation of maximum, minimum and average value, the data can be arbitrary deleted and printed out, and with RS232 interface for connecting to the computer.
- It can be equipped with CCD image automatic measuring system.

### Product Application

- 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.

Technical Specification

Model		MVicky-10	MVicky-50
Test Force	kgf	0.3kgf, 0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf	0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf, 50kgf
	N	2.94N, 4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N, 98N	4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N, 98N, 196N, 294N, 490N
Test Mode		HV/HK	
Test Range		1HV~3000HV	
Hardness Resolution		0.1HV	
Loading Method		Automatic (Loading/Dwell/Unloading)	
Turret		Automatic Shifting	
Data Output		RS232 Interface	
Hardness Reading		8 inch 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	
Eyepiece		10× Digital Measuring Eyepiece	
Objective		10×, 20×, 40×	
Total Magnification		100×, 200×, 400×	
Effective Field of View		10×: 800μm, 20×: 400μm, 40×: 200μm	
Min. Measuring Unit		10×: 0.25μm, 20×: 0.13μm, 40×: 0.06μm	
Dwell Time		0~60s	
Light Source		LED	
Digital X-Y Test Table		Size: 120×120mm; Travel: 25×25mm; Resolution: 0.001mm	
Max. Sample Height		175mm	
Throat Depth		140mm	
Power Supply		AC220V, 50Hz	
Execute Standard		ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2	
Dimension		495×575×670mm, Packing Dimension: 650×380×960mm	
Weight		Net Weight: 35kg, Gross Weight: 55kg	

## Packing List

Name	Qty
Instrument Main Body	1 set
Diamond Vickers Indenter	1 pc
Digital X-Y Test Table	1 pc
Hardness Block 400~500 HV5	1 pc
Horizontal Regulating Screw	4 pcs
Inner Hexagon Spanner 2.5mm	1 pc
Fuse 1A	2 pcs
Anti-dust Cover	1 pc
Product Certificate	1 copy
10× Digital Measuring Eyepiece	1 pc
Objective	3 pcs
Φ40mm V-shaped Anvil	1 pc
Hardness Block 700~800 HV10	1 pc
Level	1 pc
Screw Driver	1 pc
Power Cable	1 pc
Instruction Manual	1 copy
Warranty Card	1 copy