

MIDLAND METROLOGY LTD

MVicky-5T Macro Vickers Hardness Tester



Technical Specification

Model	MVicky-5T
Test Force	0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf(4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N)
Test Range	1HV~3000HV
Test Mode	HV/HK
Test Force Application	Automatic (Loading/Dwell/Unloading)
Turret	Automatic Shifting HK, HRA, HRBW, HRC, HRD, HREW, HRFW, HRGW, HRKW, HR15N, HR30N, HR45N, HR15TW, HR30TW, HR45TW, HS, HBW
Conversion Scale	
Data Output	Built-in Printer, RS232 Interface
Hardness Reading	Color Touch Screen, Data Can Be Saved
Eyepiece Objective	10X Digital Measuring Eyepiece
Total Magnification	100X, 200X
Effective Field of View	10X: 800µm, 40X: 200µm
Min. Test Unit Resolution	10X: 0.25µm, 40X: 0.06µm
Light Source	Halogen Lamp
Test Height	185mm
Test Throat	130mm
Power Supply	AC110/220V, 50Hz
Executive Standard	ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2
Dimension	Machine Dimension: 530*280*630mm Packing Dimension: 620*450*760mm
Weight	Net Weight: 35kg, Gross Weight: 47kg

Product Feature

- It adopts unique precision design of optics, mechanic and electric features, make the indentation image clearer, and get more precise measurements.
- It adopts the high resolution color touch screen which is visual and clear, easy to operate, display backlight adjustable with energy-saving mode.
- With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly show the test mode, test force, indentation length, dwell time, conversion scale, time.
- As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and show on the large screen.
- It can use optional Knoop indenter to measure Knoop hardness.
- 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.

Packing List

Name	Quantity
Machine Mainframe	1 Set
Diamond Vickers Indenter	1 PC
Φ108mm Flat Anvil	1 PC
Hardness Block 400~500 HV5	1 PC
Horizontal Adjusting Feet	4 PCS
2.5mm Allen key	1 PC
Fuse 1A	2 PCS
Power Cord	1 PC
Instruction Manual	1 Copy
10X Digital Measuring Eyepiece	1 PC
10X, 20X Objective	1 PC
Φ40mm V-Shaped Anvil	1 PC
Hardness Block 700~800 HV30	1 PC
Level	1 PC
Screwdriver	1 PC
Halogen Lamp 12V, 20W	1 PC
Anti-dust Cover	1 PC
Product Certificate, Warranty Card	1 PC ea.

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MVicky-10T Macro Vickers Hardness Tester



Technical Specification

Model	MVicky-10T
Test Force	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 Range	1HV~3000HV
Test Mode	HV/HK
Test Force Application	Automatic (Loading/Dwell/Unloading)
Turret	Automatic Shifting
Conversion Scale	HK, HRA, HRBW, HRC, HRD, HREW, HRFW, HRGW, HRKW, HR15N, HR30N, HR45N, HR15TW, HR30TW, HR45TW, HS, HBW
Data Output	Built-in Printer, RS232 Interface Color
Hardness Reading	Touch Screen, Data Can Be Saved
Eyepiece	10X Digital Measuring Eyepiece
Objective	10X, 40X
Total Magnification	100X, 400X
Effective Field of View	10X: 800µm, 40X: 200µm
Min. Test Unit	10X: 0.25µm, 40X: 0.06µm
Resolution	0.1HV
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	AC110/220V, 50Hz
Executive Standard	ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2
Dimension	Machine Dimension: 530*280*630mm Packing Dimension: 620*450*760mm
Weight	Net Weight: 35kg, Gross Weight: 47kg

Product Feature

- It adopts unique precision design of optics, mechanic and electric features, make the indentation image clearer, and get more precise measurements.
- It adopts the high resolution color touch screen which is visual and clear, easy to operate, display backlight adjustable with energy-saving mode.
- With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly show the test mode, test force, indentation length, dwell time, conversion scale, time.
- As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and show on the large screen.
- It can use optional Knoop indenter to measure Knoop hardness.
- 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.

Packing List

Name	Quantity
Machine Mainframe	1 set
Diamond Micro Vickers Indenter	1 PC
X-Y Test Table	1 PC
Thin Specimen Clamp	1 PC
Hardness Block 400~500 HV0.2	1 PC
Weights	6 PCS
Horizontal Adjusting Screw	4 PCS
Fuse 1A	2 PCS
Power Cord	1 PC
Anti-dust Cover	1 PC
10X Digital Measuring Eyepiece	1 PC
10X, 40X Objective	1 PC ea.
Flat Clamp	1 PC
Filament Clamp	1 PC
Hardness Block 700~800 HV1	1 PC
Weight Axis	1 PC
Level	1 PC
Halogen Lamp 12V, 20W	1 PC ea.
Screwdriver	2 PCS
Instruction Manual	1 Copy

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MVicky-30T Macro Vickers Hardness Tester



Technical Specification

Model	MVicky-30T
Test Force	0.5kgf, 1kgf, 2kgf, 2.5kgf, 10kgf, 20kgf, 30kgf(4.90N, 9.80N, 19.6N, 24.5N, 98N, 196N, 294N)
Test Range	1HV~3000HV
Test Mode	HV/HK
Test Force Application	Automatic (Loading/Dwell/Unloading)
Turret	Automatic Shifting HK, HRA, HRBW, HRC, HRD, HREW, HRFW, HRGW, HRKW, HR15N, HR30N, HR45N, HR15TW, HR30TW, HR45TW, HS, HBW
Conversion Scale	
Data Output	Built-in Printer, RS232 Interface
Hardness Reading	Color Touch Screen, Data Can Be Saved
Eyepiece	10X Digital Measuring Eyepiece
Objective	10X, 20X
Total Magnification	100X, 200X
Effective Field of View	10X: 800µm, 40X: 200µm
Min. Test Unit Resolution	10X: 0.25µm, 40X: 0.06µm
Light Source	Halogen Lamp
Test Height	185mm
Test Throat	130mm
Power Supply	AC110/220V, 50Hz
Executive Standard	ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2
Dimension	Machine Dimension: 530*280*630mm Packing Dimension: 620*450*760mm
Weight	Net Weight: 35kg, Gross Weight: 47kg

Product Feature

- It adopts unique precision design of optics, mechanic and electric features, make the indentation image clearer, and get more precise measurements.
- It adopts the high resolution color touch screen which is visual and clear, easy to operate, display backlight adjustable with energy-saving mode.
- With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly show the test mode, test force, indentation length, dwell time, conversion scale, time.
- As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and show on the large screen.
- It can use optional Knoop indenter to measure Knoop hardness.
- 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.

Packing List

Name	Quantity
Machine Mainframe	1 Set
Diamond Vickers Indenter	1 PC
Φ108mm Flat Anvil	1 PC
Hardness Block 400~500 HV5	1 PC
Horizontal Adjusting Feet	4 PCS
2.5mm Allen key	1 PC
Fuse 1A	2 PCS
Power Cord	1 PC
Instruction Manual	1 Copy
10X Digital Measuring Eyepiece	1 PC
10X, 20X Objective	1 PC
Φ40mm V-Shaped Anvil	1 PC
Hardness Block 700~800 HV30	1 PC
Level	1 PC
Screwdriver	1 PC
Halogen Lamp 12V, 20W	1 PC
Anti-dust Cover	1 PC
Product Certificate, Warranty Card	1 PC ea.

MIDLAND METROLOGY LTD

MVicky-50T Macro Vickers Hardness Tester



Technical Specification

Model	MVicky-50T
Test Force	0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf, 50kgf, 100kgf, 196N, 24.5N, 29.4N, 49N, 98N, 196N, 294N, 490N)
Test Range	1HV~3000HV
Test Mode HV/HK	
Test Force Application	Automatic (Loading/Dwell/Unloading)
Turret	Automatic Shifting
Conversion Scale	HK, HRA, HRBW, HRC, HRD, HREW, HRFW, HRGW, HRKW, HR15N, HR30N, HR45N, HR15TW, HR30TW, HR45TW, HS, HBW
Data Output	Built-in Printer, RS232 Interface
Hardness Reading	Color Touch Screen, Data Can Be Saved
Eyepiece	10X Digital Measuring Eyepiece
Objective	10X, 20X
Total Magnification	100X, 200X
Effective Field of View	10X: 800μm, 40X: 200μm
Min. Test Unit	10X: 0.25μm, 40X: 0.06μm
Resolution	0.1HV
Light Source	Halogen Lamp
Test Height	185mm
Test Throat	130mm
Power Supply	AC110/220V, 50Hz
Executive Standard	ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2
Dimension	Machine Dimension: 530*280*630mm Packing Dimension: 620*450*760mm
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- It can be equipped with CCD image automatic measuring system.

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- Hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

Packing List

Name	Quantity
Machine Mainframe	1 Set
Diamond Vickers Indenter	1 PC
Φ108mm Flat Anvil	1 PC
Hardness Block 400~500 HV5	1 PC
Horizontal Adjusting Feet	4 PCS
2.5mm Allen key	1 PC
Fuse 1A	2 PCS
Power Cord	1 PC
Instruction Manual	1 Copy
10X Digital Measuring Eyepiece	1 PC
10X, 20X Objective	1 PC
Φ40mm V-Shaped Anvil	1 PC
Hardness Block 700~800 HV30	1 PC
Level	1 PC
Screwdriver	1 PC
Halogen Lamp 12V, 20W	1 PC
Anti-dust Cover	1 PC
Product Certificate, Warranty Card	1 PC ea.