



VERTEX

VICKERS TESTING MACHINE VM-LC-50A



- Close Loop high precision load cell structure.
- Dual optical systems design (eyepiece + camera path), both paths can work at same time, no need switch knob
- Traditional keypad type, menu structure, easy to operate
- Automatic hardness calculation function
- Automatic turret, automatic loading, dwell, unloading
- With emergency stop button, operation more safe
- Automatic turret, digital eyepiece with encoder
- Large range test force: 0.3 to 50kgf

FEATURES:

- Closed loop design with high accuracy load cell, no need to install dead weights, installation more easy and loading - dwell - unloading automatically, easy operation.
- With automatic load correction function, greatly improved test accuracy & make calibration more easy
- Modular design, simple maintenance
- With hardness conversion function, HV hardness value can covert to HR, HB, HK, etc.

- With HV/HK test function
- Built-in printer for optional purchase
- Can work with camera and Vickers indentation measuring software
- 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.
- Industrial digital screen can direct display hardness value, conversion hardness, testing method, testing force, dwell time, test number and testing process.
- One-time casting aluminum molding shell ensure structure more stable; Adopted car painting technology, pure white color looks more decent; High scratch resistance capability,



APPLICATION:

- Widely used to test the hardness of all kinds of metal materials (steel, nonferrous metals, tinsel, cemented carbide, sheet metal, etc.)
- surface layer / coating (Carburization, nitriding, decarburization layer, surface hardening layer, galvanized coating, etc.)
- Glass, chip, ceramic, plastic and rubber, etc.

SPECIFICATION:

Model	VM-LC-50A
Turret	Automatic (motorized switch)
Force loading	Automatic loading - dwell - unloading
Testing Force	0.3Kgf (2.94N), 0.5Kgf (4.90N), 1.0 Kgf (9.8N), 2.0Kgf(19.6N), 2.5Kgf(24.5N), 3.0Kgf(29.4N), 5.0Kgf(49.0N), 10.0Kgf(98.0N), 20Kgf(196.0N), 30Kgf(294.0N), 50Kgf(490.0N)

Hardness Scale	HV0.3, HV0.5, HV1, HV2, HV2.5, HV3, HV5, HV10, HV20, HV30, HV50
Conversion Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
Min measuring unit	0.01μm
Hardness range	5-4000HV (screen display range: 5 - 9999HV)
Eyepiece	10X digital eyepiece with built-in encoder, automatic calculate data
Objective	10X, 20X
Magnification	100X (measurement), 200X (measurement); Measuring range:400um Both lens can be used to observe and measurement work directly
XY work table (optional purchase)	Dim.:100x100 mm, Max. Travel Range: 25x25mm, Moving Resolution Ratio: 0.01mm
Dwell time	1-99S (1 second per step)
Data output	Large LCD screen display (or optional purchase built-in printer)
Test space	165mm x 130mm (Height x Depth)
Power supply	AC220V, 50Hz
Standard	ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2
Overall Dimension	585x200x630mm
Net weight	42kg
Packing size	690x430x930mm
Gross weight	55kg

STANDARD ACCESSORIES:

Item	Quantity
Large round test table	1
10X digital eyepiece	1
Vickers hardness block	2
10X objective lens	1
20X objective lens	1
Regulating Screw	4
Dust cover	1
Medium size test table	1
V-shape test table	1
Accessory case	1
Spare Fuses (2A)	2
Calibration certificate	1
Warranty card	1
Manual book	1



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Actual product may differ in color and appearance due to constant development.