

HV-1000B VICKER HARDNESS TESTER



Brief Introduction

- 1.1 The Micro Vickers Hardness Tester is a new type high-tech product combining the optical, mechanic and electronic techniques with a novel and pleasing appearance, favorable operational functions and reliability, and hence it is an ideal instrument for the testing of micro-hardness.
- 1.2 The instrument is made with a precise design in the field of mechanics, CPU control of the testing in the electric field, and adopted the highly clear optic measuring system in the field of optics as well. Besides, inputting by means of the touch keys on the operating board, the instrument has multiple functions such as the selection of the Vickers measuring method, the presetting of the dwell time for test force, regulation of the intensity for measuring light source and the indicating testing numbers, etc. After readout the diagonal line length of indentation and key in it through soft keys, the hardness value will be shown on the screen.
- 1.3 The instrument is suitable for testing the micro and thin pieces, the parts with the permeated and coated surface, it is also fit for testing Vickers hardness value for the crisp materials such as the agate, glass, ceramics and it is, therefore, an ideal

hardness measuring instrument for the scientific research institutes, the universities and colleges, the industrial production units and the metrological institutes using with for studying and measuring.

2 Main Technical Specifications

- 2.1 Test force: 0.098N (10gf), 0.245N (25gf), 0.49N (50gf), 0.9807N (100gf), 1.961N(200gf), 2.942N(300gf), 4.903N(500gf), 9.807N(1000gf)
- 2.2 Repetition of displayed hardness value: Table 1; Hardness tester error of the largest allowed: Table 2
- 2.3 Test force application method: automatic loading and unloading
- 2.4 Amplification of the microscope: 400[×] (for the measurement), 100[×] (for the observation)
- 2.5 Dwell time of the test force: 0~60s (5 seconds as a unit)
- 2.6 Min graduation value of the testing drum wheel: 0.25 μ m/grid
- 2.7 Max height of the specimen: 70 mm
- 2.8 Distance between the center point of the indenter and the exterior panel: 98mm
- 2.9 Weight of the main body: 25kg or so
- 2.10 Power source: AC220V/50~60Hz
- 2.11 Dimension (L×W×H): (415×295×503) mm

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Item	Descriptions	Quantity
	The main instrument (including a micro vickers indenter, a 40 [×] objective and a 10 [×] objective)	1pcs
1	Weights	6 PCS
2	Weight Axis	1 PC
3	Cross Testing Table	1 PC
4	Platelet Fixture	1 PC
5	Plane-holding Fixture	1 PC
6	Filament Fixture	1 PC
7	Screw Drivers	2 PCS
8	Horizontal Regulating Screws	4 PCS
9	Level	1 PC
10	Power Cord	1 PC
11	Repair Fuses (1A)	2 PCS

12	10^xDigital Micro Eyepiece	1 PC
13	Vickers Hardness Blocks	2 PCS (one middle-sized HV0.2 block and one high-sized HV1 block)
14	The USAGE Instruction Manual	1 PC