

Digital Display Micro Vickers Hardness Tester

Model: JG-120A



(For reference only)

Equipment Usage

It can be used to determine the Vickers hardness of steel, non-ferrous metals, ceramics, treated layers of metal surface, and the hardness grads of carburized, nitride and hardened layers of metals. It is also suitable to determine the Vickers hardness of micro and super thin parts.



Features

- Made with a unique and precision design in the field of mechanics, optics and light source. Able to produce a clearer image of indentation and hence a more precise measurement.
- By means of a 10X objective and a 40X objective and a 10X microscope for measurement.
- It shows measuring method, the testing force value, the indentation length, hardness value, the dwell time of the testing force, as well as the number of measurement on the LCD screen.
- During the operation, put in the diagonal length with the keys on the keyboard, and the built-in calculator automatically calculates the hardness value and shows it on the LCD screen.
- The tester has a threaded interface that can be linked to the digital camera and CCD pickup camera.
- The light source of the tester is firstly and uniquely adopted cold light source, and hence its life can reach 100000 hours. The user also can select halogen lamp as light source according to their requirement.
- The CCD Automatically Image Measuring Device can be equipped on present tester according to user's requirement. (optional)
- The LCD Video Measuring Device can be equipped on the present tester according to user's requirement. (optional)
- According to user's requirement, the tester also can measure Knoop hardness value after equipping a Knoop indenter.



Technical Specifications

Model	JG-120A
Measuring range	5HV ~ 3000HV
Test force	0.098, 0.246, 0.49, 0.98, 1.96, 4.90, 9.80N (10, 25, 50, 100, 200, 500, 1000gf)
Max. height of test piece	100mm
Depth of throat	98mm
Lens/indenters with	Auto turret
Carriage control	Automatic (Loading / Holding-up of the load / Unloading)
Reading microscope	10X
Objectives	10x, 40x
Total amplification	100x, 400x
Dwell time of the test force	0 ~ 60s (5 seconds as a unit)
Min. graduation value of the testing drum wheel	0.1μm
Dimension of the XY table	100 x 100mm
Travel of the XY table	25 x 25mm
Light source / Power supply	220V, 60/50Hz
Dimensions	480 x 305 x 545mm
Package dimension	600 x 355 x 800mm
Net weight / Gross weight	30kg / 47kg



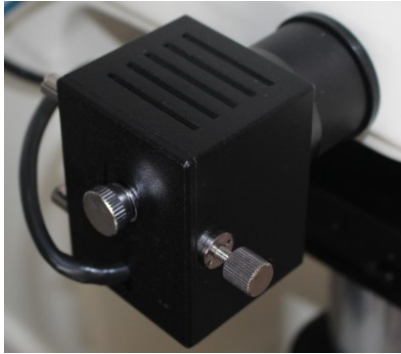
Main Accessories

Description of Goods	Quantity
Main unit	1 Unit
Reading microscope	1 Pc
10x, 40x objective	1 Pc each
Diamond Micro Vickers Indenter	1 Pc
Weight	6 Pcs
Weight Axis	1 Pc
XY table	1 Pc
Flat clamping test table	1 Pc
Thin specimen test table	1 Pc
Filament clamping test table	1 Pc
Horizontal regulating screw	4 Pc
Level	1 Pc
Fuse 1A	2 Pc
Halogen lamp	1 Pc
Power cable	1 Pc
Screw driver	2 Pcs
Hardness block 400 ~ 500 HV0.2	1 Pc
Hardness block 700 ~ 800 HV1	1 Pc
Anti-dust cover	1 Pc
Operation manual	1 Set
Certificate	1 Pc



Optional Accessories

Knoop Indenter	CCD Image Measuring System
Knoop Hardness Test Blocks	Metallographic Specimen Mounting Press
Metallographic Specimen Cutter	Metallographic Specimen Polisher



Can be Indentation



Light Source



Equipped with video system or CCD measuring system

