

SMV-402 Digital Micro Vickers Hardness Tester

Feature:

SMV-402 Digital Micro Vickers hardness tester is a high-tech and new product combining the optics, mechanic and electric features. With a novel and pleasing appearance, the internal structure is mainly made by stainless steel parts, has better performance. It can directly show the test mode, test force, indentation length, dwell time, test numbers, conversion scale, date and time on the large screen. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen. With the up and down limit alarm function, test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. It can use optional Knoop indenter to measure Knoop hardness. And it can be equipped with LCD video measuring device and CCD image automatic measuring system.



Standard: ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2

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	SMV-402	
Test Force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N
test range	1HV~2967HV	
test mode	HV/HK	
loading method	automatic (loading/dwell/unloading)	
shifting objective and indenter	automatic shifting	
conversion scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW	
data output	built-in printer, RS232 interface	
hardness reading	LCD display, data can be saved	
total magnification	objective 10× (observe), 40× (measure), eyepiece 10×, total: 100×, 400×	
resolution	0.015μm	
dwell time	0~95s	
light source	halogen lamp	
X-Y test table	size: 100×100mm; Travel: 25×25mm; resolution: 0.01mm	
max. height of specimen	90mm	
throat	120mm	
power supply	AC220V, 50Hz	
dimension(LWH)	machine: 495×305×550mm, packing : 600×360×800mm	
weight	Net Weight: 35kg, Gross Weight: 44kg	

Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	12	10× digital measuring eyepiece	1
2	diamond micro vickers indenter	1	13	10×, 40× objective	2
3	weights	7	14	power cable	1
4	cross test table	1	15	flat clamping test table	1
5	thin specimen test table	1	16	filament clamping test table	1
6	horizontal regulating screw	4	17	level	1
7	fuse 1A	2	18	halogen lamp 12V, 15~20W	1
8	inner hexagon spanner	1	19	screw driver	1
9	plastic absorbing plate	1	20	color filter	1
10	hardness block 400~500 HV0.2	1	21	hardness block 700~800 HV1	1
		1	22	manual	1