

## HARDNESS TESTER

### SHV-500M Digital Vickers Hardness Tester

- Load range from 0.3kgf up to 50kgf
- Load cell, force feedback, closed-loop system
- Supplied with 5.6 inch high resolution full color touch screen
- Direct display of test mode, test force, indentation length, dwell time, test times, conversion scale and date & time
- Hardness scales conversion available
- Measuring confirmation button fixed on digital measuring eyepiece
- test results storage in real time
- Built-in thermal printer for test results printout
- RS232 interface for PC connectivity
- Optional LCD video measuring device
- Optional HV1.0/2.0/3.0 Vickers measuring software
- ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2



Model	SHV-500MZ	SHV-1000MZ	SHV-3000MZ	SHV-5000MZ
testing force	1.961N (0.2kg) 2.942N (0.3kg) 4.903N (0.5kg) 9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg)	2.942N (0.3kg) 4.903N (0.5kg) 9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg) 98.07N (10kg)	4.903N (0.5kg) 9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg) 98.07N (10kg) 196.1N (20kg) 294.2N (30kg)	9.807N (1kg) 19.61N (2kg) 24.52N (2.5kg) 29.42N (3kg) 49.03N (5kg) 98.07N (10kg) 196.1N (20kg) 294.2N (30kg) 490.3N (50kg)
objective	20x, 40x	10x, 40x	10x, 20x	10x, 20x
magnifying	200×/400×	100×/400×	100×/200×	100×/200×
resolution	0.125 μm, 0.0625μm	0.25μm, 0.0625μm	0.25μm, 0.125 μm	0.25μm, 0.125 μm
test table	100×100 cross table: range 25×25/0.01mm		big plane test table and V table	
conversion scale	HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HB			
max. height	170mm			
instrument throat	130mm			
eyepiece	10x digital eyepiece			
testing range	1hv-2967HV			
objective/indenter switch	SHV-MZ is automatic ( auto-turret)			
printer	Built in printer, RS232			
loading control	automatic ( loading / dwell / unloading )			
dwell time	5~60s			
power supply	AC220V/50HZ: AC110V/60HZ			
dimension(LWH)	machine size 530×280×630mm, packing 620x450x740mm			
weight	net weight: 35kg, gross weight: 47kg			

#### Standard accessories:

No.	Name	Qty	No.	Name	Qty	
1	instrument main body	1	13	objective	2	
2	diamond vickers indenter	1	14	cross test table for SHV-500M/MZ, SHV-1000M/MZ	1	
3	10× digital measuring eyepiece	1	15	big plane test table	1	
4	halogen lamp 12V, 15~20W	1	16	V-shaped test table	1	
5	fuse 1A	2	17	SHV-500M/MZ	hardness block 700~800 HV1	1
6	inner hexagon spanner 2.5mm	1	18		hardness block 400~500 HV5	1
7	horizontal regulating screw	4	19	SHV-1000M/MZ	hardness block 700~800 HV1	1
8	screw driver	1	20		hardness block 700~800 HV10	1
9	anti-dust cover	1	21	SHV-3000M/MZ	hardness block 700~800 HV30	1
10	power cable	1	22		hardness block 400~500 HV5	1
11	level	1	23	SHV-5000M/MZ	hardness block 700~800 HV30	1
12	manual	1	24		hardness block 400~500 HV5	1