

## SHVS-500 Digital Vickers Hardness Tester

### Feature:

Digital Vickers hardness tester is a high-tech and new product combining the optics, mechanic and electric features. It adopts load cell control system, improves the precision of the test force and the repeatability and stability of the indicating value. With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly show the test force, indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen. P Type: built-in printer, Z Type: automatic shifting of turret + built-in printer. 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



### Technical Specification:

Model	SHVS-500	SHVS-1000	SHVS-3000	SHVS-5000
	SHVS-500P	SHVS-1000P	SHVS-3000P	SHVS-5000P
	SHVS-500Z	SHVS-1000Z	SHVS-3000Z	SHVS-5000Z
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	0.25 μm, 0.0625μm	0.25 μm, 0.125 μm	0.25 μm, 0.125 μm
test table	100×100 cross table: range 25×25/0.01mm		big plane test table and V table	
max. height	170mm			
instrument throat	130mm			
eyepiece	10x digital eyepiece			
testing range	1hv-2967HV			
objective/indenter switch	SHVS SHVS-P manual switch of objective and indenter SHVS-Z is automatic ( auto-turret)			
printer	SHVS-P SHVS-Z with 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 SHVS-500, SHVS-1000	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	SHVS-500	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	SHVS-1000	hardness block 700~800 HV1	1
8	screw driver	1	20		hardness block 700~800 HV10	1
9	anti-dust cover	1	21	SHVS-3000	hardness block 700~800 HV30	1
10	power cable	1	22		hardness block 400~500 HV5	1
11	level	1	23	SHVS-5000	hardness block 700~800 HV30	1
12	manual	1	24		hardness block 400~500 HV5	1