

# Hardness Tester Vickers KHB-3000A



## Features of the Brinell Hardness Tester

- Innovative closed-loop technology. The tester incorporates the latest load cell technology. The test load is applied via a closed-loop control unit with a load cell, a DC motor and an electronic measurement and control unit. The result is highly accurate measurements at all test loads up to 0.5%. The common problem with load overshoot or undershoot as known from traditional dead weight, or open-loop, systems is eliminated. The absence of mechanical weights not only eliminates friction problems but also makes the equipment less sensitive to misalignments caused by vibrations.
- The whole weight of the tester is 50% less than the traditional dead weight type tester.
- Test load selection by keyboard and LCD screen. No need of handling heavy weights or clean messy oil.
- Fully automatic test cycles. The hardness Tester features a fully automatic test cycle, load application, holding, unloading, is performed fully automatically. This greatly improves reproducibility of test results since operator influence is eliminated.
- Selectable dwell time. The indenter, load, and other test information are clearly displayed on the large LCD screen.
- Directions for 0.102F/D<sup>2</sup> ratios selection according to the materials and hardness.

Hardness Tester Vickers  
**KHB-3000A**

**02-9744354-6**



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Load	3000kgf (29400N), 1500Kgf (14700N), 1000Kgf (9800N), 750Kgf (7355N) ,		
	500Kgf (4900N), 250Kgf (2452N), 187.5Kgf (1839N), 125Kgf (1226N),		
	100Kgf (980N), 62.5Kgf (612.9N)		
Load dwell duration	2s~99s, can be set and stored		
Tungsten Carbide Ball indenter	10mm		
Measuring range	3.18HBW~658HBW		
Accuracy of indentation measuring	±0.5%		
Accuracy of Brinell Hardness Value	Hardness Range(HBW)	Error (%)	Repeatability(%)
	≤ 125	± 2.5	≤3.0
	125 < HBW ≤ 225	± 2.0	≤2.5
	> 225	± 1.5	≤2.0
Max measurable height	200 mm		
Max measurable depth	140 mm		
Dimensions	530mm × 260mm × 750mm		
Power supply	220/110 V, 50/60 Hz, 4A		
Weight	120kg		
Standard blocks	125-350HBW10/3000, 125-350HBW10/1000		

Standard configuration			
Host machine	1	Software disc	1
Standard block 125-350HBW10/3000	1	USB Key	1
Standard block 125-350HBW10/1000	1	USB Cable	1
Φ10mm Tungsten Carbide Ball indenter	1	Power supply wire	1
Mounting screws for indenter	1	Dust cover	1
Screwdriver for indenter mounting	1	Flat anvil, 80mm×185mm	1

Optional accessories	
"V" shape anvil, 80mm×185mm	Standard blocks of other value
Φ5mm Tungsten Carbide Ball indenter	Φ2.5mm Tungsten Carbide Ball indenter
Φ10mm Tungsten Carbide Ball	Φ5mm Tungsten Carbide Ball
Φ2.5mm Tungsten Carbide Ball	

