

HST-HUS187.5/250 Series Universal Hardness Tester



Features:

1. Brinell, Rockwell, Vickers three test methods, more hardness scales to choose.
2. Electronic electric loading, high precision sensor, with a unique closed loop control system.
3. **Eyepiece structure with digital encoder, measure D1, D2 value, LCD directly display hardness value and D1, D2 value.**
4. The test force is automatically corrected, each force is automatically compensated, and the precision of the force is increased by an order of magnitude.
5. **It can be calibrated according to standard hardness blocks or length scales.**
6. **The test force can be corrected automatically by standard dynamometer.**
7. Rockwell and Vickers hardness values can be converted.
8. Touch screen interface, easy to operate.
9. Automatic conversion of hardness according to GB /ASTM.
10. Set password protection setting parameters, more sample and test information.

11. The measurement data is saved in EXCEL format on USB disk, which is convenient for editing and processing.

12. Optional upgrade to add HVT, HBT two ruler.(depth method)

Technical Parameters:

Model	HST-HUS-250
Hardness scale	Brucellosis, Vickers, Rockwell, Superficial Rockwell
Force	5 ~ 250 KGF
Brinell scale	HBW1/ : 5, 10, 30kgf HBW2.5/ : 6.25, 15.625, 31.25, 62.5, 187.5 KGF HBW5/ : 25, 62.5, 125, 250kgf HBW10/ : 100, 250kgf
Rockwell scale	A, B, C, D, E, F, G, H, K, L, M, P, R, S, V 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W 15X, 30X, 45X, 15Y, 30Y, 45Y
Vickers scale	HV5, HV10, HV20, HV30, HV50, HV100, HV120kgf
Measurement system	The indentation image is collected by optical objective lens and CCD camera and measured in LCD interface. Resolution: Length reading: 0.1 micron Depth reading: 0.2 micron
Magnification of objective lens	2.5x, 5X (optional 10X, 20X)
Camera	1280 by 1080 pixels, 1/2 inch
Data output	Computer display
Test	Automatic loading, load retention, unload
Indenter	Rockwell diamond: 120° Rockwell ball head: 1/16 ", Vickers diamond: 136° Brinell ball indenter: 1mm, 2.5mm, 10mm (Rockwell ball indenter option 1/8 ", 1/4 ", 1/2 ")
Lighting system	LED light, ring light

Execution standard	GB/T230, GB/T231, GB/T4340, JJG144-1999, GB/T18449, ISO 6508, ASTM E10, ASTM E92, ASTM E18, ASTM E384, ASTM E103
Total experimental effort to maintain the load time	1-99 seconds
Sample size	Maximum height of sample: 220mm Head - outer wall distance (throat) :200mm Cylindrical specimen: the minimum diameter of cylindrical specimen on the outer surface is 4mm;
Maximum test height	Lowe's: 220, Brucellosis: 150mm
Distance from center of indenter to outer wall	200mm
Dimension	500*260*750mm
Weight	About 70 kg
Power	AC220V + 5%, 50 to 60 hz