

HST-HBRV250STE Universal Hardness Tester with Touch Screen



Application:

Model HST-HBRV250STE is a multifunctional Brinell, Rockwell and Vickers integrated hardness testing machine. To cover a variety of hardness testing methods, a wide test force range is designed: from 3 kg to 250 kg to perform hardness testing on many different materials and components in various industries.

Specifically designed to provide industry-leading user-friendliness and rugged construction, the machine delivers clear images for accurate and repeatable Vickers, Rockwell and Brinell hardness test measurements in the laboratory as well as in original production environments. It is ideal for educational institutions such as technical schools, universities and multifunctional general workshops.

The machine comes standard with an 8-inch LCD touch screen, CCD camera (optional), automatic measurement software (optional) and consumables for all 3 testing methods, providing a turnkey solution for your hardness testing needs.

Technical Parameters:

Model	HST-HBRV250STE
Rockwell Test Force	60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)
Superficial Test Force	15kgf(147.11N),30kgf(294.2N),45kgf(441.3kgf)
Brinell Test Force	2.5kgf(24.5),5kgf(49N),6.25kgf(61.25N),10kgf(98N),15.625kgf(153.125N),30kgf(294N),31.25kgf(306.25N),62.5kgf(612.5N)100kgf(980N),125kgf(1225N), 187.5kgf(1837.5N), 250kgf(2450N)
Vickers Test Force	3kgf(29.4N)5kgf(49N),10kgf(98N),20kgf(196N),30kgf(294N),50kgf(490N),100kgf(980N), 200kgf(1960N),250kgf(2450N)
Indenter	Diamond Rockwell Indenter, Diamond Vickers Indenter, ϕ 1.588mm, ϕ 2.5mm, ϕ 5mm Ball Indenter
Loading Method	Automatic (Loading/Dwell/Unloading)
Hardness Reading	Touch Screen Display
Test Scale	HRA, HRB, HRC, HRD, HBW1/30, HBW2.5/31.25, HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5, HBW10/100, HV30, HV100
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW
Lense magnification	Eyepiece:15X, Objective:2.5X(Brinell),5X(vickers),optional 10X,20X
Magnification	Brinell: 37.5 $\times$, Vickers: 75 $\times$, optional :150X,300X
Resolution	Rockwell: 0.1HR, Brinell: 0.1HB, Vickers: 0.1HV
Dwell Time	0~60s
Data Output	Printer

Max. Height of Specimen	Rockwell: 230mm, Brinell & Vickers: 160mm
Throat	170mm
Power Supply	AC110-220V, 50Hz
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2 ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2 ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2
Dimension	475×200×700mm, Packing Dimension: 620×420×890mm
Weight	Net Weight: 64kg, Gross Weight: 92kg

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