

HST-HBRV-TEW Computerised Rockwell Brinell Vickers Universal Hardness Tester



1. Features

Model HST-HBRV250STE is used electronic loading control instead of weight load control, equipped with a newly-designed large displaying screen with good reliability, excellent operation and easy watching, thus it is a high-tech product combining the optic, mechanic and electric features.

It has Brinell, Rockwell and Vickers three test modes and test forces from 3kg to 250kg, which can test several kinds of hardness.

Test force loading, dwell, unload adopts automatic shifting for easy and fast operation. It can show and set the present scale, test force, test indenter, dwell time and hardness conversion;

The main function is as follows: Selection of Brinell, Rockwell and Vickers three test modes; Conversion scales of different kinds of hardness; Test results can be saved for checking or be printed out, automatic calculation of maximum, minimum and average value; can connect to the computer.

2. Application Range

Suitable for hardened and surface hardened steel, hard alloy steel, casting parts, non-ferrous metals, various kinds of hardening and tempering steel and tempered steel, carburized steel sheet, soft metals, surface heat treating and chemical treating materials etc.

3. Specifications

Model	HST-HBRV250STEW
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