

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.

Features:

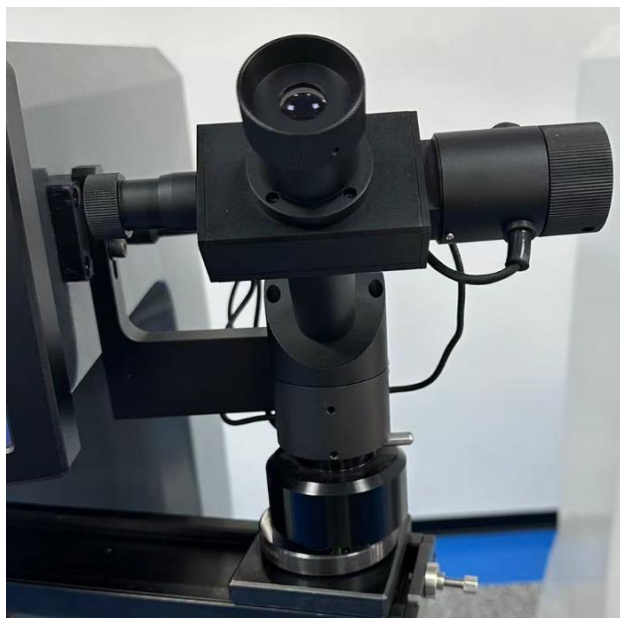
1. Adopt Brinell, Rockwell and Vickers test principles and testing methods;
2. 8-inch large-screen touch screen interface, easy to operate;
3. Closed-loop system with high-precision weighing sensor, force sensor and force feedback system, no need to install weights;
4. Lighting: Integrated LED lighting for test point lighting;
5. Manual or automatic measurement of Vickers and Brinell indentation is optional;
6. Automatic test force correction and force compensation to ensure high accuracy and stability of measured values;
7. With hardness conversion function;
8. The Rockwell hardness testing function has the ability to automatically correct the radius of curvature;
9. Standards: Meet or even exceed the requirements of ASTM and ISO standards

Technical Parameters:

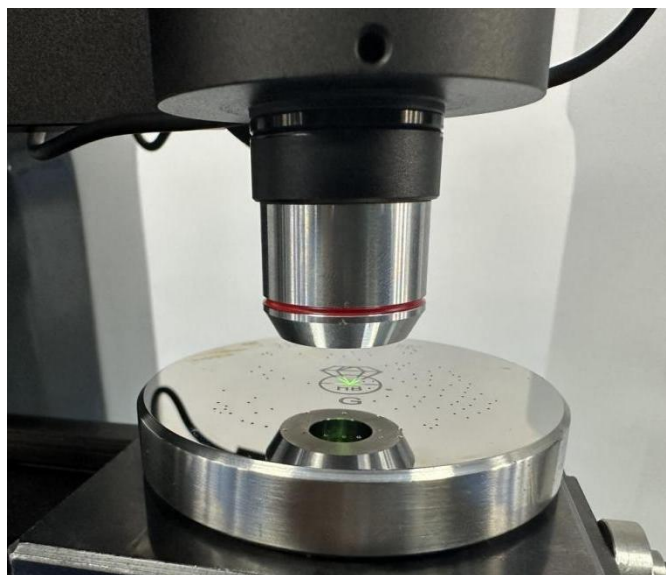
Model	HST-HBRV250STE
Rockwell Test Force	60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)
Superficial Test Force	15kgf(147.11N),30kgf(294.2N),45kgf(441.3kgf)
Brinell Test Force	2.5kgf(24.5),5kgf(49N),6.25kgf(61.25N),10kgf(98N),15.625kgf(153.125N),30kgf(294N),31.25kgf(306.25N),62.5kgf(612.5N)100kgf(980N),125kgf(1225N), 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×, Vickers: 75×, 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

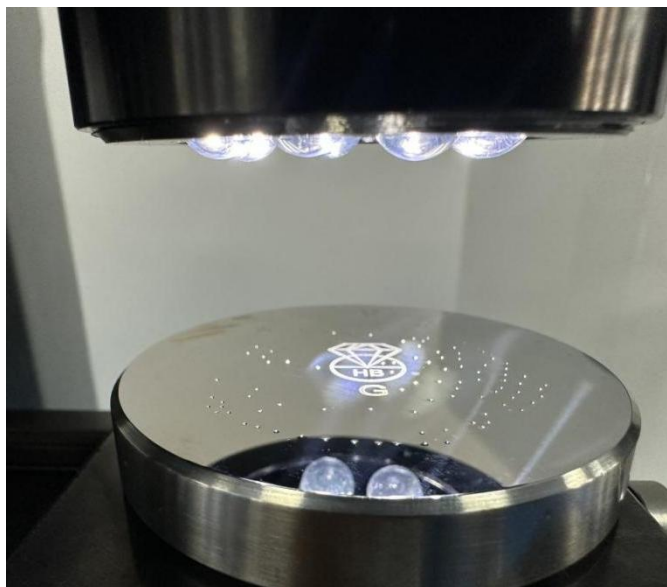
Detailed Photos:



Digital eyepiece (for Vickers, Brinell hardness test)



Built-in cold light source (for Vickers hardness test)



External ring lamp (for Brinell hardness test)



Slipped test table, frictionless screw

Packing List:

Name	Qty	Name	Qty
Instrument Main Body	1 set	Diamond Rockwell Indenter	1 pc
Diamond Vickers Indenter	1 pc	$\phi 1.588\text{mm}$, $\phi 2.5\text{mm}$, $\phi 5\text{mm}$ Ball Indenter	each 1 pc
Slipped Test Table	1 pc	Middle Plane Test Table	1 pc
Large Plane Test Table	1 pc	V-shaped Test Table	1 pc
15 $\times$ Digital Measuring Eyepiece	1 pc	2.5 $\times$, 5 $\times$ Objective	each 1 pc
Microscope System (include the inside light and outside light)	1 set	Hardness Block 150~250 HBW 2.5/187.5	1 pc
Hardness Block 60~70 HRC	1 pc	Hardness Block 20~30 HRC	1 pc
Hardness Block 80~100 HRB	1 pc	Hardness Block 700~800 HV30	1 pc
Power Adapter	1pc	Power Cable	1 pc
Usage Instruction Manual	1 copy	Anti-dust Cover	1 pc

