Fully Automatic Universal Hardness Tester with Close-loop Load Cell System

DigiRock BRV5

Features:

- With closed-loop control system, no installation adjustment required.
- With "One-click measurement" system: the worktable can automatically rise and fall and approach the indenter actively, and the whole process of measurement can be completed automatically. Suitable for industrial batch parts testing, eliminate human factors, greatly improve the measurement accuracy.
- The measurement space can reach 300mm*220mm.
- Industrial-grade metal keys, which have a mechanical life of more than 1 million times, suited for factory environments and offer optimal reliability.
- The overall casting of the fuselage guarantees stiffness without deformation and long-term stability. Wide casting base, high stability.
- keyboard sets the scale, automatically control the test force, control accuracy of 0.5%; loading, holding and unloading are precisely controlled by computer.
- English and Chinese bilingual menu, large screen, high definition, high brightness backlit dot matrix LCD display.
- HB, HV, HLD, HK hardness conversion and tensile strength conversion.
- With USB-2 (3), RS-232 converter, RJ-45 - LAN, WLAN, Wi-Fi, Bluetooth transfer functions, measurement data EXCEL output; Optional micro printer.
- Uses the original imported indenter, with the original import certificate, in accordance with ISO, ASTM, GB/T standards
- The measuring scale is complete: Can carry out Rockwell HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, And surface Rockwell HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y, a total of 30 kinds of scale measurement. The measured materials cover a variety of hardness ranges, Such as hard alloy, quenched steel, alloy steel, mild steel, copper, aluminum alloy, engineering plastics, artificial wood, etc.
- Strong data processing function: test time, serial number, and test results are automatically stored, and can be called at any time to consult and print, without being changed or deleted. Monitor test history effectively to ensure the objectivity and fairness of historical data.
- Allowance limit: Set the permissible error limit, which is automatically recognized and alerted.
- Data statistics: calculate the mean value, mean square error, maximum and minimum, which allows direct uncertainty assessment.
- Complies with ISO, ASTM, JIS and other standards.

Specifications:

Commodity	Fully Automatic Universal Hardness Tester with Close-loop Load Cell System
Model	DigiRock BRV5
Code#	811-162
Measuring Range	Rockwell, Superficial Rockwell, HVT, HBT, Ball indentation method
Rockwell Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV
Superficial Rockwell Scale	15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y
*HVT Scales	HV5, HV10, HV20, HV30, HV50, HV100, HV120
*HBT Scales	HBT1/5kgf, HBT1/10kgf, HBT1/30kgf; HBT2.5/6.25kgf,HBT2.5/15.625kgf,HBT2.5/31.25kgf,HBT2.5/62.5kgf, HBT2.5/187.5kgf; HBT5/25kgf, HBT5/31,25kgf, HBT5/62,5kgf, HBT5/125kgf, HBT5/250kgf; HBT10/100kgf, HBT10/125kgf, HBT10/250kgf;
Loading System	Force sensor, force feedback control, closed-loop system
Test Force	15kgf, 30kgf, 45kgf, 60kgf, 100kgf, 150kgf
Preliminary Test Force	3kgf，10kgf
Load Accuracy	≤±0.5%
Sounding Accuracy	≤0.1um
Sounding Resolution	0.02um
Dwelling Time	1-250 seconds, adjustable in units of 1 second
* Z-axis Lifting Mode	Electric/automatic lifting
Software System	Embedded integrated MS Windows® operating system, HD SPIRIT hardness testing software,32Gb solid state drive
Display and Operation	8 inch color industrial touch screen, display test results and statistical analysis values, can be operated by mouse and keyboard; with shortcut buttons including: measurement start button, end measurement button, menu selection button
Display	Hardness conversion, such as Brinell, Vickers, Richter, UTM, convex and concave corrections, instrument setup, calibration
Standard	Comply with ISO, ASTM, JIS and other standards
Test Space	Maximum height 300mm, maximum throat depth 200mm
Max. weight of Specimen	150kg
Dimension(LxWxH)	300mm x 875mm x 1068mm
Net Weight	95kg

Standard Delivery

Model	Product Name	Quantity
DigiRock BRV5	Rockwell hardness tester main unit	1
	Embedded integrated computer system	1
	Rockwell hardness measurement and control software	1
	Specimen clamping device (indenter protective cover)	1
	LED lighting	1
	Wireless mouse and keyboard	1
	The fuse	2
	Adjustable feet	4
	Hex socket wrench	1
	Rockwell HRC diamond indenter	1
	Rockwell HRB φ1.5875mm ball indenter	1
	HRA Hardness Block	1
	HRB Hardness Block	1
	HRC Hardness Block	1
	HR30N Hardness Block	1
	HR30T Hardness Block	1