

HST-HR-i150/45-AZ Intelligent Rockwell Hardness Tester



I、Product Introduction

This product is a new generation of smart products, with measurement values available with just one click.

II、Key features and functions

1. Modern minimalist design
2. A variety of Rockwell scales, HVT and HBT are available
3. Fully automatic, high-precision force sensor, closed-loop force feedback control system
4. Worktable automatic lifting and lowering, anti-collision detection device and Z-axis retraction system
5. Automatically apply the initial test force and the main test force.
6. The worktable automatically rises, stops rising when the sample touches the indenter, automatically loads, automatically unloads, and automatically measures the hardness value.
7. Touchscreen interface, easy to operate, directly select the hardness scale, force value changes automatically.
8. Powerful data processing capabilities include: multiple hardness system conversions such as HR, HB, HV, qualified range Settings, automatic alarm for over-limit, input of tester, sample name and other information
9. Automatically correct each hardness scale into high, medium and low segments according to the standard hardness block.
10. The test force can be automatically corrected by a standard force gauge.
11. Ultra-high precision X/Y worktable (suitable for fully automatic models)
Repeat positioning accuracy :3 microns travel up to 200mm
12. Set multiple measurement points within a range of 100mm * 100mm for multi-point fully automatic testing and batch inspection (for fully automatic models)
13. Automatic measurement of end quenching curves for 6 samples (for full automatic model, optional)
14. Sample and test information, measurement data are saved on a USB drive in EXCEL format for easy editing and processing
15. The database processing is powerful, including multiple hardness system conversions such as HR, HB, HV, setting qualified range, automatic alarm for over-limit, and information such as tester and sample name that can be entered. Measurement parameters and data are automatically saved to the

database.

16. Qr code scanning, detection data cloud storage, data analysis, remote diagnosis and upgrade

Real-time detection data and historical data are displayed on mobile phones and computers

17. Automatically calculate hardness value uncertainty (optional)

18. Automatically generate documentation required for CNAS review (optional)

19. Remote Diagnostics and Upgrades (Optional)

III、 Key Technical Parameters

Name	Smart Rockwell hardness tester	Fully automatic smart Rockwell hardness tester
Model	HST-HR-i150/45-AZ	HST-HR-i150/45-AZXY
picture		
Preliminary test force	10(98.07N) 3.0(29.4N)	10(98.07N) 3.0(29.4N)
Total test forcekgf(N)	60(588N) 100(980N) 150(1471N) 15(147.1N) 30(294.2N) 45(441.3N)	60(588N) 100(980N) 150(1471N) 15(147.1N) 30(294.2N) 45(441.3N)
Scales	HRA、HRB、HRC、HRD、HRE、 HRF、HRG、HRH、HRK、HRL、 HRM、HRR、HRP、HRS、HRV 15N、 15T、15W、15X、15Y、30N、30T、 30W、30X、30Y、45N、45T、45W、 45X、45Y	HRA、HRB、HRC、HRD、HRE、 HRF、HRG、HRH、HRK、HRL、 HRM、HRR、HRP、HRS、HRV 15N、 15T、15W、15X、15Y、30N、30T、 30W、30X、30Y、45N、45T、45W、 45X、45Y
Standard	ASTM E18, GB/T230, ISO 6508, BSEN 6508	
HVT	-	optional
HBT	-	optional
Dwell time	0-99s	
HR value resolution	0.1HR	
Error of test force	<0.5%	
Data output	LCD display + live PC display	PC

Data store	lot module/Bluetooth/Wired real-time transmission (choose one of the three) Save in EXCEL format on a USB drive (optional)	PC
Exchange scales	Rockwell, Brinell, Vickers	
Stage	Manual	Automatic
stage Size (mm)	Diameter 100	150x150
stage stroke(mm)	Rotatable	50x50
XY sample stage repeatability accuracy (microns)	/	1
Vertical capacity (mm)	210	200
Throat depth (mm)	200	
Motorized Z-axis	Yes	Yes
Anti-collision protection	Yes	Yes
Laser or LED guider	Optional	Optional
Auto measurement of hardness value	Yes	Yes
Multi pot measurement	-	Yes
Jominy test hardness curve	-	Optional
Report editor	-	Yes
Data export	PC USB (optional)	PC
OS operating system	-	Win 10
WiFi	Yes	Yes
Blue tooth	Optional	Optional
Weight	70kg	75 kg
Size, L*W*H(mm)	510*230*810	510*230*810 +PC

HST GROUP Co., LTD.

NO. 4915, West Jingshi Road, Jinan 250012, PR CHINA.

Tel: +86-15910081986

www.hssdgroup.com E-mail: admin@hssdtest.com