

HST-HRS150/45T-AJ Fully Automatic Rockwell Hardness Tester



Product introduction:

HST-HRS150/45T-AJ precision Rockwell, Superficial Rockwell, double Rockwell hardness tester (mobile head) adopts closed-loop sensor control technology to realize fully automatic control and hardness testing process. The loading system adopts high-precision force sensor and central controller to form a closed loop to realize full control of the force application process. The depth measurement system adopts high-precision displacement sensor, which can obtain a hardness value resolution of 0.1HR.

The machine stage is fixed, and the hardness test is performed by the up and down movement of the pressure head. The fixed test bench can eliminate the coaxiality error caused by the up and down rotation of the traditional screw, improve the accuracy and repeatability of the test, and also increase the stability and efficiency of the machine.

Product features:

- Brand-new design, mobile head structure, solid frame structure
- High-speed precision step control system, fixed test bench, high-precision and fast testing
- High-definition LCD touch screen operation, menu-based operation interface

Technical Parameter:

Product model	HST-HRS150/45T-AJ		
Control system	Precision step control system		
Dwell time	1--60 seconds		
Platform	High-precision linear guide lifting platform		
Rockwell initial test force	10kgf	3kgf	3kgf、10kgf
	98.07N	29.4N	29.4N、98N
Rockwell total test force	60kgf、100kgf、150kgf	15kgf、30kgf、45kgf	15kgf、30kgf、45kgf、60kgf、100kgf、150kgf
	588.4N、980.7N、1471N	147.1N、294.2N、441.3N	147.1N、294.2N、441.3N、588.4N、980.7N、1471N
Rockwell scale	HRA HRB HRC HRD HRE HRF HRG HRH HRK HRL HRM HRP HRR HRS HRV	HR15N HR30N HR45N HR15T HR30T HR45T HR15W HR30W HR45W HR15X HR30X HR45X HR15Y HR30Y HR45Y	HRA HRB HRC HRD HRE HRF HRG HRH HRK HRL HRM HRP HRR HRS HRV HR15N HR30N HR45N HR15T HR30T HR45T HR15W HR30W HR45W HR15X HR30X HR45X HR15Y HR30Y HR45Y
Test range	HRA:20-95 HRB:10-100 HRC:10-70 HRD:40-77 HRE:70-100 HRF:60-100 HRG:30-94 HRH:80-100 HRK:40-100 HRL:50-115 HRM:50-115 HRR:50-115 HRP:50-115 HRS:50-115 HRV:50-115	HR15N: 70-94 HR30N: 42-86 HR45N: 20-77 HR15T: 67-93 HR30T: 29-82 HR45T: 10-72	HRA:20-95、HRB:10-100、HRC:10-70、HRD:40-77、HRE:70-100、HRF:60-100、HRG:30-94、HRH:80-100、HRK:40-100、HRL:50-115、HRM:50-115、HRR:50-115、HR15N: 70-94、HR30N: 42-86、HR45N: 20-77、HR15T: 67-93、HR30T: 29-82、HR45T: 10-72
Indenter specifications	Diamond cone Rockwell indenter, $\Phi 1.5875\text{mm}$ steel ball indenter		
Implementation	ISO 6508, GB/T230, JJG112, ASTM E18		

standards	
Conversion scale	HR, HB, HV, HK
Hardness reading	LCD digital display
Data output	RS-232 interface Built-in Bluetooth USB interface
Indenter to workbench height	280mm
Indenter center to machine body distance	170mm
Power supply	AC90-240V 50-60Hz
Overall dimensions (length, width, height)	700*500*910mm
Machine net weight	About 220kg

Standard accessories:

Name	Quantity
Main unit	1 unit
Diamond indenter	1 unit
Φ1.588 steel ball indenter	1 piece
Φ1.588 steel ball	5pcs
Sample stage	1 piece
V-shaped sample stage	1 piece
Rockwell/Superficial Rockwell hardness test block	3/2pcs
Power cord	1 piece
Indenter locking screw	1 piece
Dust cover	1 piece
Product certificate	1 copy
Manual	1 copy

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