



# Plastic Rockwell Hardness Tester **XHR** SERIES



**XHR-150**



**XHR-150D**



**XHRS-150**



**XHRS-150T**



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# HST-XHRS-150 Digital Plastics Rockwell Hardness Tester

## Instruction

XHRS-150 Digital Plastics Rockwell Hardness Tester is adopted a mechanism to load and unload the test force automatically, through rotating the Load-Change Hand Wheel to change test force; therefore the operation of this instrument is very simply; easy and prompt. Besides setting zero to the dial, there is no man-made operation error. The present hardness tester is with high sensitivity and stability, so as to suitable for usage in workshop and testing laboratory.

The method of plastics Rockwell hardness test is to press a ball indenter of a certain diameter into a specimen to be tested firstly with initial test force P0 and than together with main test force P1. After apply with total test force P (P0 + P1) and keep a stipulated duration time, than unload the main test force. The difference e between the press-in depth h1 during the initial test force keeping and the press-in depth h0 made by the initial test force applied means the permanent increment of indentation depth. Each press-in depth 0.002mm is as one hardness unit of plastics Rockwell. This test method is with the characteristic of high speed to test hardness and it is widely applied in inspecting the hardness for specimens.



## HST-XHRS-150 Digital Plastics Rockwell Hardness Tester

Name	Specification
Test force	60、100、150kgf 588.4、980.7、1471N
Measuring range	70~100HRE, 50-115HRL, 50-115HRM, 50-115HRR
Hardness reading	Touch screen to get hardness value
Maximum allowable height of the measuring ruler	210mm
The distance from the center of the	165mm
Hardness Resolution(N/kgf)	0.1HR(60, 100, 150)
Dimensions	466*238*630mm
net weight(mm)	98kg
Power supply	AC220V, 50Hz
data output	Printer, RS232 interface
Paul time	0~60s

The tolerances of displaying value and the repetition of the plastics Rockwell hardness tester

Scales	Hardness Range of Standard	Allowed Tolerance of	Max. Repetition of Displaying Value
HRE	70~94HRE	±2.0HRE	2.5HRE
HRL	100~120HRL	±1.2HRL	1.5HRL
HRM	85~110HRM	±1.5HRM	2.0HRM
HRR	114~125HRR	±1.2HRR	1.5HRR

The Scales, Indenters, Test Force Values and Usage Ranges of the Plastics Rockwell Hardness Test

Scales	Ball Indenters	Initial Test Force (N)	Total Test Force (N)	Usage Ranges
HRE	φ3.175mm(1/8 inch)	98.07	980.7	Hard plastics, hard rubbers, aluminum, tin, copper, mild steel, synthetic resin and friction materials
HRL	φ6.35mm(1/4 inch)		588.4	
HRM	φ6.35mm(1/4 inch)		980.7	
HRR	φ12.7mm(1/2 inch)		588.4	

Standard Accessories:

Name	Specification	Unit	Quant	Note
Diamond Rockwell Indenter		Pc	1	
Ball indenter	1.5875mm,Ø6.35mm,Ø12.7mm	Pc	1	
Test bench	Big flat,small flat,V-shape	Pc	3	
Standard Rockwell hardness block		Pc	5	
power cable		Pc	1	
Weight		Pc	3	
Dust-proof plastic cover		Pc	1	
Product certificate		Sheet	1	
Instruction Manual		Sheet	1	



**Contact Us**   
We Will Provide You Professional Solution

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