

XHRS-150 Digital Plastics Rockwell Hardness Tester



The picture is for reference only

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 P_0 and then together with main test force P_1 . After apply with total test force P ($P_0 + P_1$) and keep a stipulated duration time, then unload the main test force. The difference e between the press-in depth h_1 during the initial test force keeping and the press-in depth h_0 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.

Technical specifications

1. The Initial Test Force: 98.07N; Tolerance: $\pm 2.0\%$
2. The Total Test Force: 588.4N, 980.7N, 1471N; Tolerance: 2.0%
3. The Indenter Specifications:
 - 3.1 The $\phi 3.175\text{mm}$ ball indenter
 - 3.2 The $\phi 6.35\text{mm}$ ball indenter
 - 3.3 The $\phi 12.7\text{mm}$ ball indenter
4. The Power Source: AC220V $\pm 5\%$, 50-60 HZ
5. Time-delayed control: 2-60 seconds, adjustable
6. The Max. Height of the Specimen Tested: 175 mm
7. The Distance from the Ball Indenter Center to the Instrument Body: 165mm.
8. The Overall Dimension (Length $\times$ Width $\times$ Height): 520 $\times$ 215 $\times$ 700 (mm)
9. The Net Weight of the Tester: 78Kg (Approx)
10. The tolerances of displaying value and the repetition of the plastics Rockwell Hardness Tester

Scales	Hardness Range of Standard Hardness Blocks	Allowed Tolerance of Displaying Value	Max. Repetition of Displaying Value
HRE	70~94HRE	$\pm 2.0\text{HRE}$	2.5HRE
HRL	100~120HRL	$\pm 1.2\text{HRL}$	1.5HRL
HRM	85~110HRM	$\pm 1.5\text{HRM}$	2.0HRM
HRR	114~125HRR	$\pm 1.2\text{HRR}$	1.5HRR





MACHINERY DIRECTIVE ATTESTATION OF CONFORMITY

Technical file of the company mentioned below has been inspected and audit has been completed successfully.

2006/42/EC Machinery Directive Annex VIII has been taken as references for these processes.

Company Name : **JINAN HENSGRAND INSTRUMENT CO., LTD.**
Company Address : NO.4915, WEST JINGSHI ROAD, JINAN, CHINA
Related Directives and Annex : **2006/42/EC Machinery Directive/Annex VIII**
Related Standards : **EN ISO 12100:2010, EN 60204-1:2018**
Product Name : **TESTING MACHINE**
Report No and Date : TCF-JHIC230128-MD
Product Brand/Model/Type : WDS-1, WDS-2, WDS-3, WDS-5, WDS-10, WDS-20, WDS-30, WDS-50, WDS-100, WDS-200, WDS-300, WDS-500, WDW-1, WDW-2, WDW-3, WDW-5, WDW-10, WDW-20, WDW-30, WDW-50, WDW-100, WDW-200, WDW-300, WDW-500, WDW-600, WDW-1000, WE-300, WE-600, WE-1000, WE-2000, WEW-300, WEW-600, WEW-1000, WEW-2000, WAW-300, WAW-600, WAW-1000, WAW-2000, WAW-3000, WAW-5000, WAW-6000, LAW-1000, JB-300B, JBS-300, JBW-300, JB-500B, JBS-500, JBW-500, JBW-750, CST-50, VU-2Y, VU-1S, DWC-40, DWC-60, DWC-80, DWC-100, DWC-196, YES-2000, YES-300, YAW-1000, YAW-300, YAW-2000, YAW-3000, YAW-5000, NDS-200, NDS-500, NDS-1000, NDS-2000, NDW-200, NDW-500, NDW-1000, NDW-2000, NDW-3000, NDW-5000, NDW-10000, HEZ-3, HEZ-6, HEZ-10, JWJ-10, TLS, TLW, HST-P50, HST-P100, HST-P200, HST-P300, RDJ, NDT, DWTT, GBW-60, GW-50, HST, XNR-400

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