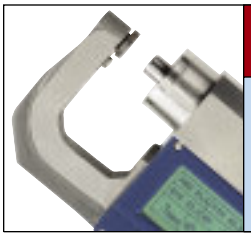
RH-150 Portable Rockwell Hardness Tester

G&R TECHNOLOGY INC.



FEATURES:

1. High accuracy, repeatability, and reliability.
2. Easy to use anywhere.
3. Suitable to test metal parts of any size and shape.
4. Reasonable and affordable price.

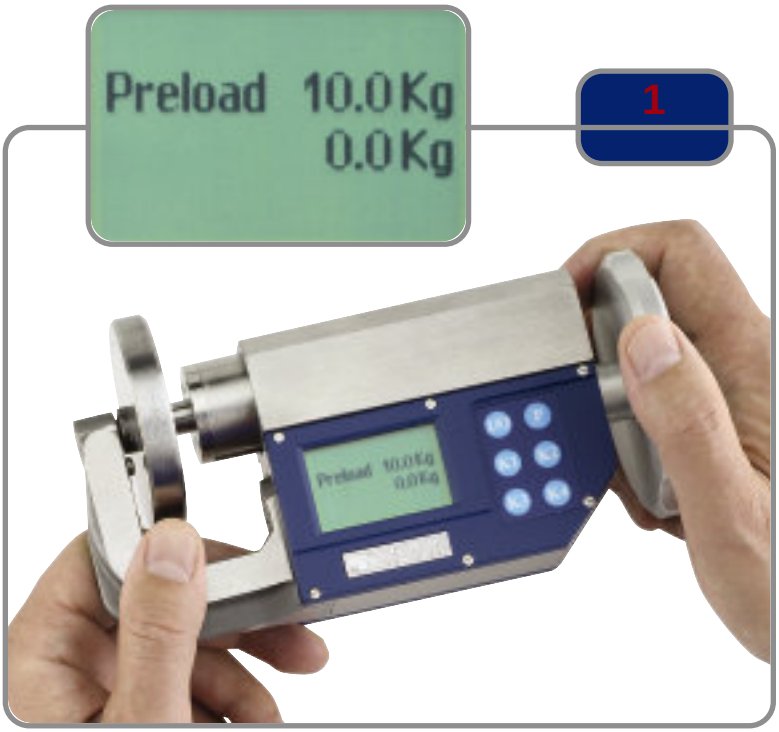
High technology – high accuracy

The G & R RH-150 portable hardness tester revolutionizes the traditional Rockwell hardness tester. This tester is a high-tech instrument that combines typical Rockwell test methods with new high accuracy displacement* and force sensor* technologies developed by G & R. In addition, the G & R adjustable-position system* guarantees this tester is accurate, repeatable and reliable.

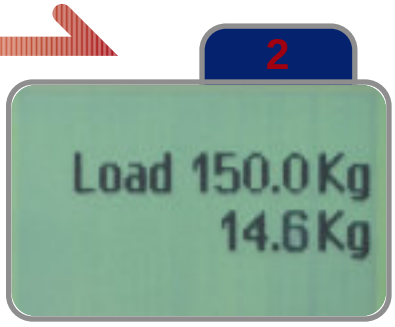
* U.S. Patent Pending & China Patent Pending

Compact – easy to use anywhere

This versatile portable hardness tester can be used by anyone anywhere to obtain direct hardness readings in HRA, HRB and HRC and convert this data to HV, HB and Tensile Strength. Operating the RH-150 tester is as easy as 1-2-3.



Place the test piece between the adjust supporter and indenter, and press a 10 kg preliminary load using the hand wheel.



Press the main load onto the piece.

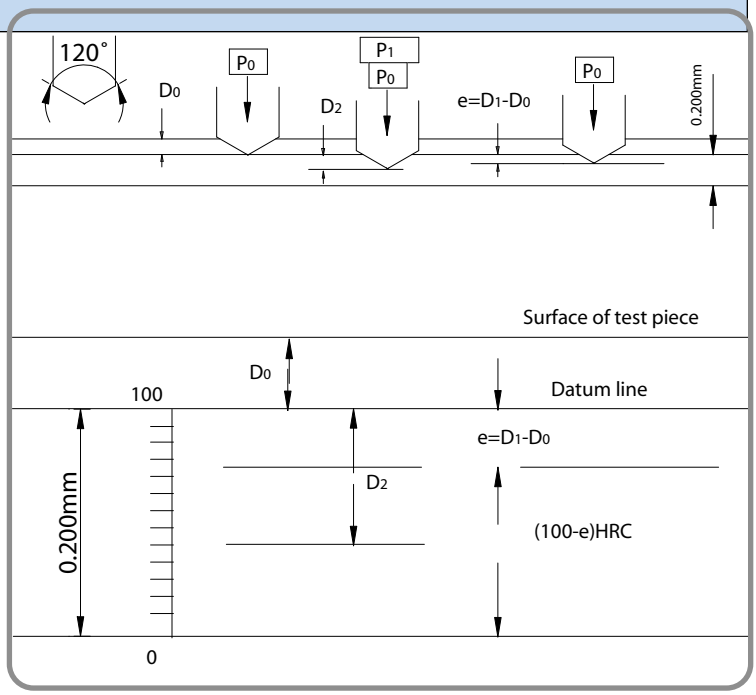
Universal- suitable for parts of any size and shape

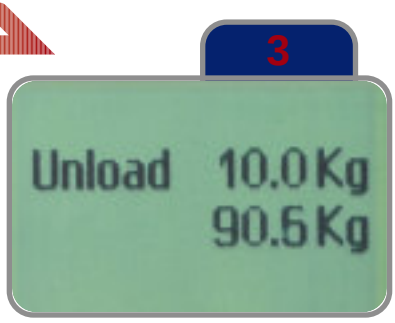
The RH-150 tester's structure allows the user to switch between frames and attach other accessories to test metal parts of any size and shape.

Rockwell Hardness testing and the ASTM E 18-03 standard

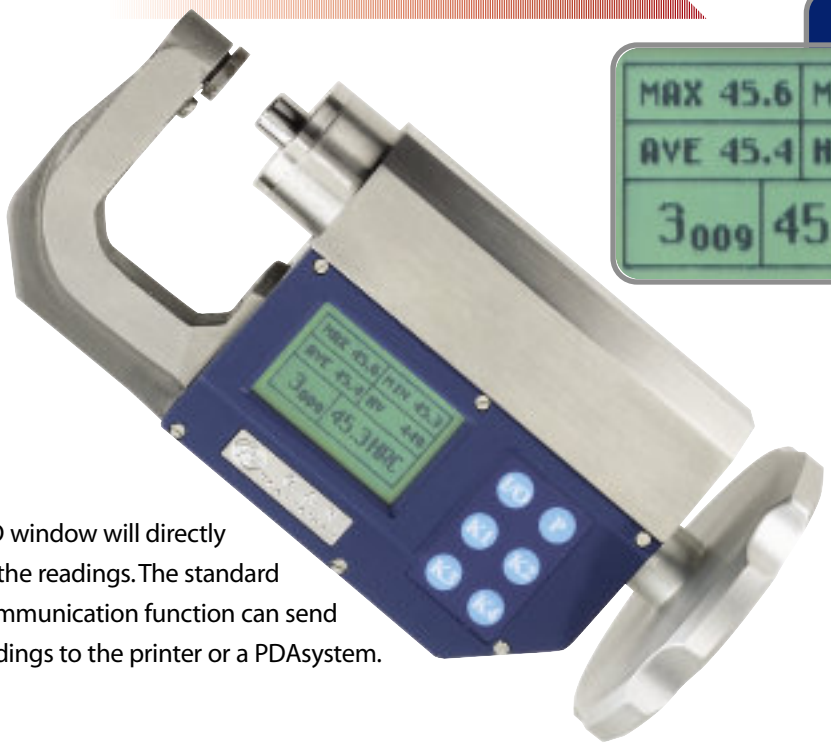
Rockwell Hardness testing is a system for determining hardness of metallic material. The E 18-03 standard established by ASTM is a detailed description of the Rockwell Hardness testing method.

A 120˚ angle diamond or 1/16" (1.588mm) diameter hard steel ball indenter is pressed into the test piece surface with a preliminary force P_0 (10kgf) at a depth D_0. Then, a main force P_1 is added until the total test force, $P = P_0 + P_1$, is 60kgf for HRA, 100kgf for HRB and 150kgf for HRC, and the indenter increases to a depth D_2. Then, the preliminary force P_0 is unloaded, and the indenter decreases to a depth D_1. This results in a depth difference, $e = D_1 - D_0$, measured in units of 0.002mm. The hardness reading for HRA and HRC is 100- e, and for HRB is 130-e.





Unload 10 kg.



The LCD window will directly display the readings. The standard IrDA communication function can send test readings to the printer or a PDAsystem.

Low cost – affordable price for any customer

This beautiful stainless steel hardness tester employs a G & R sensor system that guarantees this tester's low cost and high quality suitable for any customer.

SPECIFICATION

Testing Range:
20-88 HRA
20-100 HRB
20-70 HRC

Scales:
HRA, HRB, HRC, HV, HB

Tensile Strength:
110 – 363 Lb/In^2
77 - 266 Kg/cm^2

Accuracy:
0.5HRC (between 55 –68HRC)

Operation Temperature:
Operation 32º to 104ºF (0º to 40ºC)
Storage 4º to 122ºF (-15º to 50ºC)

Batteries :
1.5V AA

Batteries Life:
Work life 60 hours
Shelf life 1 year

Data storage:
Automatically records up to 500 test results including readings, convert results and average.

Tester dimension:
7"X 3.25 X1.25" (182mm X 84mm X 34mm)

weight:
2.4Lb (1.1Kg)

RH-150 tester package include

RH-150 Hardness Tester
Standard test block
20-30 HRC
35-55 HRC
59-65 HRC
Diamond Indenter
Carbide ball indenter
Plane supporter
V type supporter
1" (25mm) retaining frame
AA batteries 2
Pin wrench
Hex key
Plastic carry case

RH-150 option accessories

2"(50mm) retaining frame
3"(75mm) retaining frame
4"(100mm) retaining frame
Micro IrDA Printer

G & R TECHNOLOGY INC.
1846 Red Robin Place
Thousand Oaks, CA 91320 USA

Printed in USA