

## Product Information

### RH-150AUTO/RH-45AUTO Hand Held Portable Hardness Tester



RH portable hardness tester



RH with Column-Stand frame

#### Features

- Performs Rockwell tests in accordance with ISO 6508 and ASTM E18 standards
- Version available to test superficial Rockwell scales, suitable for tests on thin material
- Motorised for high reliability and repeatability
- Suitable for testing a variety of materials
- Compact and lightweight, perfect for testing materials on-site
- User friendly display
- Display of average, maximum and minimum results
- Large memory can store up to 100 sets of test results, including hardness results, time & date, material, hardness scale, average
- Readings in HRA, HRB and HRC (15, 30, 45, N & T)
- Conversions to HV, HB and UTS
- Optional Bluetooth printer
- Resolution of 0.1 Rockwell
- Bluetooth and USB output

#### Range of application

The RH has many applications in the primary metals, metal fabrication, utilities, petroleum, chemical, automotive and aerospace industries.

The Indentec RH portable hardness tester revolutionises the traditional Rockwell hardness tester. This tester is a high-tech instrument that combines typical Rockwell or superficial Rockwell test methods with new high accuracy displacement and force sensor technologies.

These versatile testers can be easily used by anyone, anywhere, to obtain direct accurate hardness readings in HRA, HRB, HRC, 15N/T, 30N/T or 45N/T and convert this data to HV, HB and tensile strength. Operating the RH-150 tester is as easy as 1-2-3.

#### Operation

Operation of the RH is easy and test results can be obtained in seconds. The instrument has an LCD display window which guides the operator through the test procedure.

The sample is first clamped securely to ensure no movement during the test sequence. The minor force (10 kgf) is then applied by rotating the hand wheel, followed by the major force (HRA = 60 kgf, HRB = 100 kgf, HRC = 150 kgf). The instrument has an automatic test cycle for high reliability and repeatability with results in < 10 seconds. The result is then displayed.

The RH is battery powered for extra portability.

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### RH-150AUTO/RH-45AUTO Hand Held Portable Hardness Tester

Specification			
Testing Range (material dependant)		Scale (HR)	Loads
	RH-150 Rockwell	A	20 to 88
	RH-150 Rockwell	B	20 to 100
	RH-150 Rockwell	C	20 to 70
	RH-45 Superficial Rockwell	N	15, 30, 45
	RH-45 Superficial Rockwell	T	15, 30, 45
Scales	Conversion to HV, HB, UTS		
UTS	kgf/cm <sup>2</sup> , lb/in <sup>2</sup>		
Accuracy	+/- 0.5 % at 60HRC		
Testing Direction	Any Direction		
Operating Temperature	Operating: 0 °C to 40 °C Storage: -15 °C to 50 °C		
Batteries	Rechargeable lithium ion battery		
Battery Life	Tester Work Time: 6 hours Charge Time: 2 hours		
Printer	6,000 print lines		
Data Storage	Automatically records up to 100 test results including readings, conversions, average values, and hardness scale		
Time and Date	Time and date with a 10 year calendar		
Tester Dimensions	200 mm x 100 mm x 46 mm		
Weight	2 kg		

#### RH Package

Standard Accessories	Standard	Column-Stand
Column-stand frame		•
Fastening fixture		•
0 - 25 mm retaining frame	•	
25 - 50 mm retaining frame	•	
50 - 75 mm retaining frame	•	
75 - 100 mm retaining frame	•	
Diamond indenter	•	•
Carbide ball indenter (1/16")	•	•
Position sleeve	•	•
20 - 35 HRC test block	•	•
59 - 65 HRC test block	•	•
60 - 90 HRBW test block	•	•
Self-aligning plane anvil	•	
Self-aligning V-type anvil	•	
Plane anvil	30 mm	60 mm
V-type anvil	30 mm	60 mm
Plastic carry case	•	
16 mm socket wrench		•
11.1 V rechargeable battery	•	•
12.6 V/1.2 A battery charger	•	•
Hex key	•	•

#### RH Optional Accessories

##### Suitable for use with both models:

Ball anvil
Position sleeve for 10-12 mm ball
Position sleeve for 12-16 mm ball
Position sleeve for 16-30 mm ball
Position sleeve for 30-50 mm ball
Buletooth printer and 8.4V/0.8A charger
Diamond indenter
Carbide ball indenter (1/16")
Position sleeve
HRC test block
HRBW test block
Battery

##### Standard only:

Tube test frame
Self-aligning plane anvil
Self-aligning V-type anvil
30 mm plane anvil
30 mm V-type anvil