

# OPTRONICS

**Model HRS-150 Digital Display Rockwell Hardness Tester**

Hardness Conversion

Output-Printing

Friendly Interface



The Digital Rockwell Hardness Tester is equipped with a newly-designed large displaying screen with good reliability, excellent operation and easy watching, thus it is a high-tech product combining the mechanic and electric features.

Its main function is as follows:

- \* Selection of Rockwell Hardness Scales;
- \* Selection of Plastic Rockwell Hardness Scale (The special requirements will be met according to the supply contract)
- \* Hardness values exchange among various Hardness Scales;
- \* Output-Printing of hardness testing results;
- \* The RS-232 Hyper Terminal Setting is for the Functional Expansion by the client.



**Application:**

- \* Suitable to determine the Rockwell hardness of ferrous, non-ferrous metals and non-metal materials.
- \* Widely applied in the Rockwell hardness testing for heat treatment materials, such as quenching, hardening and tempering, etc.
- \* Especially suitable for the precise measurement of parallel surface and steady and reliable for measurement of curved surface.

**Technical Parameter:**

Measuring range: 20-88HRA, 20-100HRB, 20-70HRC

Initial Test Force: 98.07N (10Kg)

Test force: 588.4, 980.7, 1471N (60, 100, 150kgf)

Max. height of test piece: 185mm

Depth of throat: 165mm

Type of indenter: Diamond cone indenter,  $\phi$ 1.588mm ball indenter

Loading method: Automatic (Loading/Dwell/Unloading)

Unit for display: 0.1HR

Hardness Display: LCD screen

Measuring scale: HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV

Conversion scale: HV, HK, HRA, HRB, HRC, HRD, HRF, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HBW

Time-delayed control: 2-60 seconds, adjustable

Power supply: 220V AC or 110V AC, 50 or 60Hz

Dimensions: 520 x 200 x 700mm

Weight: approx. 100kg

**Packing list:**

Main Machine	1Set	Printer	1 PC
Diamond Cone Indenter	1 PC	Fuse 2A	2 PC

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φ1.588mm ball Indenter	1 PC	Power Cable	1 PC
Anvil (Big, Middle, "V"-Shaped)	TOTAL 3 PCS	RS-232 Cable	1 PC
Standard Rockwell Hardness Block		Weight A,B,C	TOTAL 3 PCS
HRB	1 PC	Inner Hexagon Spanner	1 PC
HRC (High, Middle, Lower)	TOTAL 3 PCS	Spanner	1 PC
HRA	1 PC	Word document	1 copy
Horizontal Regulating Screw	4 PCS	Level	1 PC

## Detailed pictures:

